## 1. Introduction

Indonesia is a huge archipelagic country extending 5120 km from east to west and 1760 km from north to south. It encompasses 13667 islands, only 6000 of which are inhabited. Indonesia's total land area is 1919317 sq. km. Included in Indonesia's total territory is another 93000 sq. km of inland seas (straits, bays and other water bodies). The population of Indonesia was 237.6 million in 2010. The growth rate is high, at $1.9 \%$. Fifty-eight per cent of the population lives on the island of Java, the world's most populous island.

In August 2006, the World Health Organization (WHO) and the US Centers for Disease Control and Prevention (CDC) convened an expert consultation to discuss adult tobacco surveillance and make recommendations for the development of a standard survey protocol. The expert consultation also recognized the challenges of limited funding and methodological complexities when conducting systematic adult tobacco surveys, and identified a lack of comparability in ongoing national surveys.

The Bloomberg Initiative to Reduce Tobacco Use offers resources to fill the data gap for measuring adult tobacco use globally and to optimize the reach and results of the ongoing Global Tobacco Surveillance System (GTSS), which comprises three school-based surveys for youth and selected adult populations - the Global Youth Tobacco Survey (GYTS), the Global School Personnel Survey (GSPS) and the Global Health Professions Students Survey (GHPSS), and a household-based survey, the Global Adult Tobacco Survey (GATS). Results from the GATS will assist countries in the formulation, tracking and implementation of effective tobacco control interventions, and enable them to compare results of their survey with results from other countries where GATS has been conducted.

In the first phase, GATS was completed in 14 countries of the world between 2008 and 2010, covering over $50 \%$ of the world's population. By the completion of second phase, the survey will cover $58 \%$ of the world's population, including Indonesia.

### 1.1. Burden of tobacco use in Indonesia

Indonesia is the fifth-largest producer of tobacco leaf. It is among the five topmost producers and exporters of cigarettes. Indonesia is the fourth-largest cigarette consuming country. It ranks third in the number of men smokers and 17th for women smokers. In 2008, cigarette consumption in Indonesia was 225000000 billion sticks. The country is the third-largest cigarette consumer in the world.

The National Baseline Health Research in 2010 showed that the average consumption of cigarettes per person (aged 15 years or above) was 12 sticks/day, ranging from nine sticks in Bali to 19 sticks in Aceh. It was also found that those who had a higher education level were less likely to use tobacco. The prevalence of smoking among university graduates was 20.6\% compared to $26.3 \%$ among those without schooling. The prevalence of smoking among those aged 15 years or above in different years was obtained from the National Socioeconomic Survey (SUSENAS) and basic health surveys (one of the subset samples of SUSENAS. The questionnaire was mainly based on tobacco smoking. Questions on chewing tobacco products were not included. In the questions on smoking, changes were made between surveys, with some questions being deleted and some added. SUSENAS includes samples of people in the age group of 10+ years .

The percentages of smokers aged 15 years and above by sex in Indonesia from 1995 to 2010 were as follows:

| Year | Men | Women | Total |
| :--- | :--- | :--- | :--- |
| 1995 | 53.9 | 1.7 | 27.2 |
| 2001 | 62.9 | 1.4 | 31.8 |
| 2004 | 63.0 | 5.0 | 35.0 |
| 2007 | 65.3 | 5.6 | 35.4 |
| 2010 | 65.9 | 4.2 | 34.7 |

SUSENAS also collects information on exposure to second-hand smoke in homes. In 2010, about 35\% of people were exposed to second-hand smoke at home. The questionnaire on exposure to second-hand smoke was changed between 1995 and 2001.

Several retrospective studies in Indonesia showed a relationship between smoking behaviour and the risk of developing cardiovascular diseases (including stroke), respiratory diseases and cancer.The Baseline Health Research 2007 revealed that stroke is the leading cause of death ( $15.4 \%$ of total deaths), followed by neoplasm ( $5.7 \%$ ) and coronary heart disease (5.1\%). The prevalence of smoking among Indonesians aged 15 years and above is $34.7 \%$ ( $28.2 \%$ daily smokers and $6.5 \%$ occasional smokers). About $30.8 \%$ of the rural population and $25.9 \%$ of the urban population smoke every day. The average number of sticks consumed per person per day is 12 . The ageat initiation of smoking and percentages for each age group are: $5-9$ years (1.7\%); 10-14 years (17.5\%); $15-19$ years ( $43.3 \%$ ); and $20-24$ years ( $14.6 \%$ ). The prevalence of smoking at home is $76.1 \%$, of whom the largest proportion is in the Central Sulawesi Province ( $90.3 \%$ ) and Jambi Province (90.0\%). About $35.0 \%$ of smokers belong to the lowest socioeconomic group (first quintile).

### 1.1.1. Smoking products in Indonesia

Kreteks (pronounced "cree-techs") are clove cigarettes. Kreteks are popular in Indonesia, and typically contain a mixture consisting of tobacco, cloves and other additives. Broadly speaking, there are two types of manufactured cigarettes in Indonesia-kreteks and white cigarettes. There is also a major market for non-factory made cigarettes, which are clove cigarettes that may be either filtered or unfiltered. The kretek (clove-blended) cigarette dominates the market in both the machine-made and hand-rolled categories. The name kretek is derived from the crackling sound that results from burning of the tobacco-clove mixture. The total sales of machine-made cigarettes (kreteks and white cigarettes) was some 180 billion sticks in 2010, up 4.5\% from 2009 (Euromonitor 2011). White cigarettes accounted for some $12 \%$ of the total (machine-made) market volume in 2010, the remaining being kreteks. White cigarettes are mainly imported (global) brands and are hampered by the restriction on television advertisements for foreign brands. All global brands except for Marlboro Mix 9 are white cigarettes. Global brands excluding Marlboro Mix 9 are sold in packs of 20 sticks, while local brand clove cigarettes are sold in packs of 12 and 16 sticks. Indonesia is a unique cigarette market because of kreteks and the strength of the "cottage" sector that produces hand-rolled cigarettes. Hand-rolled kreteks are strongly associated with 12-stick packaging. Country local brands of white cigarettes are sold in 20-stick packs.

Indonesian kreteks, both machine-manufactured and hand-rolled, have a higher tar level than white cigarettes (more than 10 mg tar). The most common tar level for "mild" kreteks is 14 mg tar and 1 mg nicotine. Indonesia is one of the world's most attractive cigarette markets and international companies have been keen to establish themselves. The major cigarette manufacturers are Gudang Garam, HM Sampoerna (PMI), Djarum, Bentoel (BAT) and Nojorono. In 2010, the top three cigarette manufacturers accounted for some two thirds of the total machine-made cigarette volume sales, with Gudang Garam being the market leader. (However, if hand-rolled cigarettes were included, total volume sales of Sampoerna would exceed those of Gudang Garam.) Standardized machine-smoking analyses indicate that kreteks deliver more nicotine, carbon monoxide and tar than conventional cigarettes. Kretek smoking is associated with an increased risk of acute lung injury, especially among susceptible individuals with asthma or respiratory infections. Research shows that regular kretek smokers have 13-20 times the risk of abnormal lung function compared with non-smokers.

### 1.1.2. Tobacco use among specific populations

The GYTS 2009 in Java and Sumatra showed a smoking prevalence among junior high school students(13-15 years) of $20.3 \%$. About $72.4 \%$ of students reported exposure to second-hand smoke at home and $78.1 \%$ at public places. The GSPS 2009 showed that tobacco use prevalence among junior high school teachers was $18.9 \%$ and among administrative personnel it was $31.3 \%$. The GHPSS among third-year men medical and dental students revealed that the prevalence of cigarette smoking was $19.8 \%$ and $39.8 \%$, respectively and use of tobacco products other than cigarette smoking was $2.2 \%$ and $4.7 \%$, respectively.

### 1.2. Health and economic impact of tobacco use

Based on the Baseline Health Research 2010, an average of 12 cigarettes sticks is consumed per person per day at an average price of IDR 600.00 per stick; the expenditure for tobacco per person per day is thus IDR 7200.00 or IDR 216000.00 per person per month. This expenditure is larger than the Conditional Cash Transfer (CCT) programme for poor families of IDR 100000.00 per family per month.

The total medical expenditure on selected major diseases ( 629017 hospitalized cases) attributed to tobacco use in 2010 was IDR 1.85 trillion; these included chronic obstructive pulmonary disease, coronary heart disease, selected neoplasms/cancers and perinatal disorders. It is estimated that there were 1258034 ambulatory cases of tobacco-related diseases. With the average expenditure per patient per visit (without subsidy) of IDR 208.337, the total expenditure for ambulatory services in 2010 was IDR 0.26 trillion. It is estimated that in 2010, 190260 Indonesians (100 680 men and 89 580 women) died due to tobacco-related diseases, accounting for $12.7 \%$ of the total deaths in 2010, which was 1539 288.The total disability-adjusted life years (DALYs) lost due to premature mortality and disabilities in 2010 was 3533000 DALYs.

The World Bank and WHO study in 2005 found that low-income households spent $7.2 \%$ of their income on tobacco. Affordability of cigarettes has increased in the past decade in Indonesia. Households with smokers spent an average of $11.5 \%$ on tobacco products, compared with $11.0 \%$ on fish, meat, eggs and milk combined, $2.3 \%$ on health and $3.2 \%$ on education. Tobacco in Indonesia became 50\% more affordable between 1980 and 1998. Cigarette taxes and prices in Indonesia are low relative to other low-income countries and regional averages.Overall, real cigarette prices have remained remarkably stable between 1970 and 2005.

### 1.3. Tobacco control policies

Indonesia is the only country in the South-East Asia Region that has not signed the Framework Convention on Tobacco Control (FCTC); however , Indonesia is committed to implementing the MPOWER policy package (61st Regional Committee resolution). Government Regulation No 81/1999 on Tobacco Control was issued as an implementation document for tobacco control measures stated in the 1992 Health Law. The articles include regulations on advertisements, health warning labels, restrictions on tar and nicotine levels, public disclosure of cigarette content, penalties and enforcement, regulatory authority, public participation and provisions for a smoke-free environment. This regulation, however, did not address issues on economics, liability, sale to minors and sponsorships.

The Government Regulation No 38/2000 on Tobacco Control basically revised the Regulation No 81/1999 on tobacco advertisements (permitting advertisements in the electronic media, in addition to printed and outdoor media) and prolonging the deadline for industries to comply with new regulations to five to seven years, depending on the type of industry. In 2003, the government issued Regulation No 19/2003 which replaced Regulation No 38/2000 and included aspects related to the size and types of messages in health warning labels, time restrictions for advertising in the electronic media and testing of tar and nicotine levels.

The Indonesian Health Law (Law No 36/2009 on Health) states that tobacco and tobacco products are considered as addictive substances and will be regulated to protect the health of the individual, family, community as well as the environment. Based on this law, a government regulation on tobacco control has been prepared; the proposed regulation is still being debated. Besides, in the past seven years, more than 20 local governments (province, district and city) have enacted local laws on smoke-free environments.

The Indonesian Ministry of Health has also appointed a Tobacco Control Focal Point at the Directorate General of Disease Control and Environmental Health to coordinate technical activities and prepare regulations on tobacco control. There are many nongovernment organizations (NGOs) working on tobacco control activities. The Bloomberg Initiative to Reduce Tobacco Use of Bloomberg Philanthropies has supported tobacco control initiatives at the national and subnational levels.

Indonesia implemented GATS in 2011.GATS enhances the country's capacity to design, implement and evaluate tobacco control programmes and provides key indicators for monitoring the MPOWER policy package. An efficient and systematic surveillance mechanism to monitor the epidemic is one of the essential components of a comprehensive tobacco control programme.

### 1.4. Survey objectives

The objectives of the GATS are as follows:

- To systematically monitor adult tobacco use (smoking and smokeless) and track key tobacco control indicators in a nationally representative sample (of the country)
- To track implementation of FCTC-recommended policies outlined in the MPOWER package.

More specifically, the objectives of the survey are to provide up-to-date information on adult tobacco use for both smoked and smokeless tobacco products and key tobacco control measures. The survey also provides an opportunity to compare population estimates of tobacco users at the national level as well as stratified by urban/rural areas and gender.

## 2. Methodology

The GATS is the global standard for systematically monitoring adult tobacco use (smoked and smokeless) and tracking key tobacco control indicators. The GATS is a nationally representative survey, using a consistent and standard protocol across countries, including Indonesia. The data will assist countries to track technical components of the WHO MPOWER package.

### 2.1. Study population

The target population for this survey includes all adult men and women in Indonesia aged 15 years and above. This target population includes all people who consider Indonesia to be their usual place of residence, covering $98.4 \%$ of the total population in Indonesia. This definition includes those individuals residing in Indonesia even though they may not be considered a citizen of the country. The only adults who were excluded from the study were those individuals visiting Indonesia, e.g. tourists, those who indicated that their primary place of residence was a military base or group quarters, e.g. a dormitory, and those who were institutionalized-including people residing in hospitals, prisons, nursing homes and other such institutions. In addition, eligible respondents could withdraw from the study at any time. They also had a right to refuse to answer any question without providing a reason for their decision.

### 2.2. $\quad$ Sampling design

The sampling frame used for the GATS Indonesia sample design (see Appendix B for details) was a census block (CB), obtained from the Population Census of Indonesia conducted by BPS-Statistics Indonesia in 2010. The survey applied a fourstage stratified cluster sampling. In the first stage, 100 primary sampling units (PSUs) ( 50 in urban areas and 50 in rural areas) were selected using the probability proportional to size (PPS) sampling technique. The PSU consisted of a group of CBs in a subdistrict within the same type of area (urban/rural). The next stage was to select three secondary sampling units (SSUs), i.e. CBs per selected PSU, also using PPS. After updating the list of population census households in selected CBs, in the third stage, 30 households were selected systematically from the list of updated households. In the final stage, one respondent is randomly selected to participate in the survey.

The explicit stratification used at the first stage of selection was based on urban and rural designations of BPS-Statistics Indonesia, as well as on four regions (Sumatra, Java-Bali, Kalimantan-Nusa Tenggara, and the eastern part of Indonesia). SSUs were based on CBs created for the 2010 Population Census of Indonesia, which generally comprised 80-120 households.

Following the standard protocol of GATS, the initial target was a representative sample of 8000 non-institutionalized households subject to the applicable non-response and eligibility rates (a target sample of 2000 households each in urban, rural, men and women subgroups). After accounting for possible non-response and eligibility rates, it was decided to have an average of 30 households in most of the selected SSUs/CBs, resulting in a total sample size of 8994 non-institutionalized households. As per the design, one respondent was randomly selected for the interview from each selected eligible household to participate in the survey. The Indonesian sample design provides cross-sectional estimates for the country as a whole as well as by urban/rural areas and gender.

### 2.3. Survey questionnaire

GATS Indonesia collected information on a variety of indicators that will assist in monitoring the prevalence of tobacco use. Two types of questionnaires were used - the household questionnaire and the individual questionnaire for all adults aged 15 years and above. The household and individual questionnaires were based on the GATS core questionnaire and optional questions, which were designed for use in countries implementing GATS. These questionnaires were adapted and modified to reflect the relevant issues applicable for the country situation in consultation with the NIHRD, BPS-Statistics Indonesia, WHO Country Office and Technical Committee under the MOH (see Appendix D). The adaptations took place during the GATS Technical Workshop conducted in February 2011 in Atlanta, USA in consultation with CDC and WHO Regional Office
for South-East Asia (WHO SEARO). The adapted questionnaires were approved by a questionnaire review committee (QRC). The questionnaires were developed in English and later translated into Indonesian. The questionnaires were also backtranslated to English to check the quality of translation before being used for field implementation. The questionnaires were pretested during the pilot conducted in Bogor City and Bogor District in May 2011 and finalized in July after incorporating the changes suggested from the pretest experience.

### 2.3.1. Household questionnaire

The household questionnaire collected information on all the usual residents in the sampled household to identify eligible persons from the household and capture their basic information so that a random eligible respondent could be selected for the individual questionnaire. For all listed household members, basic information on age and gender was collected. The information on age was used to identify an eligible random respondent for the individual questionnaire. The questionnaire also collected information on the current use of smoked and smokeless tobacco.

### 2.3.2. Individual questionnaire

The individual questionnaire collected information from eligible selected individuals aged 15 years and above. The individual questionnaire consisted of the following 10 sections:

- Background characteristics: Questions on gender, age, education, occupation and possession of household items
- Tobacco smoking: Questions covering patterns of use (daily consumption, less than daily consumption, not at all), former/past tobacco consumption, age at initiation of daily smoking, consumption of different tobacco products, (cigarettes, kretek cigarettes, pipes, cigars), nicotine dependence and frequency of quit attempts
- Smokeless tobacco: Questions covering patterns of use (daily consumption, less than daily consumption, not at all), and former/past use of smokeless tobacco
- Electronic cigarettes: Questions covering patterns of use (daily consumption, less than daily consumption, not at all) of electronic cigarettes
- Cessation: Questions on advice to quit smoking by a health-care provider, method used to try to stop smoking and thinking about quitting smoking
- Second-hand smoke: Questions on smoking allowed in the home, exposure to second-hand smoke at home, indoor smoking policy at the workplace, exposure in the past 30 days at the workplace, government buildings/offices, universities/educational facilities, religious facilities, health-care facilities, restaurants/bars/night clubs and public transportation
- Economics-manufactured white cigarettes: Questions covering the type of manufactured white cigarette product and quantity bought, cost of manufactured white cigarette product(s), brand, type of product purchased and source of manufactured white cigarette product(s)
- Economics—kretek cigarettes: Questions covering the type of kretek cigarette product and quantity bought, cost of kretek cigarette product(s), brand and type of product purchased and source of kretek cigarette product(s)
- Media: Questions on exposure to advertisement - television, radio, billboards, posters, newspapers/magazines, cinema, internet, public transportation, public walls and others; exposure to sporting events connected with tobacco; exposure to music, theatre, art or fashion events connected with tobacco; exposure to tobacco promotion activities; reaction to health warning labels on cigarette packages and exposure to anti-tobacco advertising and information. These questions were asked for both white manufactured cigarettes and kretek cigarettes. The reference period for the questions in this section was 30 days.
- Knowledge, attitudes and perceptions: Questions regarding knowledge about the health effects of using both smoked and smokeless tobacco.


### 2.4. Questionnaire programming and preparation for electronic data collection

The GATS was the first survey ever conducted in Indonesia which used electronic means of data collection to collect the information on both household and individual questionnaires. For this purpose, the General Survey System (GSS) was used, which is a suite of software tools developed to facilitate the administration, collection and management of survey data on handheld computers, specifically a Microsoft Windows-based platform running Windows Mobile 5.0 or Mobile 6.0, often called pocket PC systems. The software system is designed to support field data collection activities, where field
interviewers collect data using handheld computers. The systems were developed and tested using the Hewlett Packard (HP) iPAQ Pocket PC (Model: iPAQ 210) and were used for data collection. (Please refer to the manuals on GSS and Data Management and Implementation Guidelines for more details.) Electronic data collection was useful for facilitating the complex skip pattern used in the GATS Indonesia questionnaire as well some inbuilt validity checks on questions during the data collection.

The programming of the questionnaire using GSS was carried out in collaboration with in-country information technology (IT) personnel, WHO and CDC. Repeated quality-control mechanisms were used to test the quality of questionnaire programming. The main steps involved in quality control checks were version checking for household and individual questionnaires, checking date and time, and skipping patterns. The entire process, including the questionnaire, data collection using handheld machines and data aggregation to prepare raw data for analysis, was pretested.

Handheld programming was finalized and the final questionnaire for data collection was uploaded onto the handheld devices in August 2011 by in-country IT personnel, with WHO and CDC providing oversight to maintain quality assurance. The case file containing the electronic information used for identifying the selected household addresses was also uploaded to the handhelds in September 2011, immediately after household activities and selection of households had been updated and completed. (Please refer to the GATS Quality Assurance Manual for more details on case file and a complete listing of quality control measures adopted in GATS.)

### 2.5. Recruitment, training and fieldwork

### 2.5.1. Implementing agencies

BPS-Statistics Indonesia and NIHRD were the implementing agencies for GATS in Indonesia. The MoH designated the BPS as the main implementing agency responsible for sampling, updating of households, and conducting training and data collection for GATS implementation, while NIHRD was responsible for writing the country report, preparing the fact sheet and disseminating the results nationally.

WHO provided regional and in-country coordination and CDC provided technical assistance for implementation of the survey. Financial assistance was provided by Bloomberg Philanthropies under the Bloomberg Global Initiative to Reduce Tobacco Use.

The MoH had also established an in-country technical committee. This committee consisted of experts and senior representatives from the MoH (NIHRD) and BPS-Statistics Indonesia. Refer to Appendix D for details on the technical committee and personnel involved in survey implementation.

### 2.5.2. Pretest

BPS-Statistics Indonesia conducted a pretest to test the questionnaire, especially in terms of wording and comprehensibility, inconsistencies in skip patterns, sequencing of questions, completeness of response categories, work load, interview time, availability, call backs and any other issues. Another important objective of the pretest was to test the programmed questionnaire for handheld data collection and assess problems in the process of data transfer and aggregation. Pretest training took place during 9-11 May 2011. Seven people were trained during the training programme, of whom two were selected to perform the tasks of a supervisor and five to conduct the interviews and do the actual field work during the pretest. Training was conducted based on standard GATS manuals and procedures, including class presentation, mock interviews, field practices and tests. Pretest fieldwork was carried out during 12-20 May 2011. Fieldwork was conducted for a purposive sample of 210 households, with 120 households in Bogor Regency and the remaining 90 in Bogor City, distributed by gender, urban/rural and smoking status. An attempt was made to obtain a good representation of individuals from different age groups.

### 2.5.3. Training

In order to maintain uniform survey procedures and follow standard protocols established in GATS, four manuals were developed. The field interviewer manual consists of instructions for interviewers regarding interviewing techniques, field procedures, method of asking questions and, most importantly, the use of handheld devices for data collection. The field supervisor manual contains a detailed description on the role and responsibilities of the supervisor. It also contains information on data aggregation and transfer procedures for supervisors. The question-by-question specifications manual provides question-by-question instructions to the field interviewers on administering the GATS household and individual questionnaires using the handheld computer. It also contains information on range checks, response options, and purpose and instructions on each question included in the survey. All the manuals were first developed in English and then translated into Indonesian for the training. A total of 100 interviewers and 81 supervisors were trained in 12 regional training centres for a period of three days (for a few participants) or four days (for more participants) in the beginning of October 2011. This training was facilitated by two facilitators (one for the questionnaire and one for IT) who had been trained separately by a GATS team member in Jakarta prior to this training. The facilitator training was conducted at the end of September 2011. Training included lectures on understanding the contents of the questionnaires, how to complete the questionnaires using handheld devices, mock interviews between participants and field practice interviews.

### 2.5.4. Updating of the household list

Updating of the household list was the first GATS activity in the field after the pretest implementation. BPS-Statistics Indonesia Headquarters prepared the list of households from the 2010 Population Census of Indonesia for each selected CB and sent the list to the BPS-Regional Office. In each selected CB, the list of households was updated in order to obtain the up-to-date household conditions within the CB. In carrying out the updating, the field enumerator utilized a map of the selected SSU (CB) used during the 2010 Population Census. Personnel of the BPS-Regional Office worked at the field level to update the relevant information of the household as per the current situation. The updating operation was conducted in September 2011. After all households in the selected CB had been updated, the up-to-date lists of households were then sent back to the BPS-Statistics Indonesia Headquarters as an up-to-date frame for household sample selection. The selected households were then prepared as a case file to be put into the handheld devices.

### 2.5.5. Fieldwork

The GATS data was collected in 19 provinces, 77 districts and 100 PSUs by 100 field interviewers and 81 field supervisors (FSs). All field interviewers and FSs were personnel of the BPS regional offices. Both field interviewers and FSs came from the same BPS regional office at district level in order to maintain good coordination and ensure speedy data collection. Field operations took place over a period of four weeks from 15 October 2011 to 24 November 2011.

Field interviewers were responsible for collecting information on questionnaires using handheld devices. FSs were responsible for the overall operation of the field enumeration. In addition, the FSs conducted spot checks to verify information collected by interviewers and also to ensure the accuracy of household identification in the field. In order to ensure that the standard quality-control procedures has been implemented correctly by the field interviewers, key members of the GATS team visited the field to monitor data collection. FSs were also responsible for aggregating the interviewer-level data to the secure digital (SD) card provided to make a back-up; and using a card reader through internet connection available in the BPS-Regional Office, the FSs then sent the data to the data centre at the BPS-Statistics Indonesia Headquarters.

### 2.6. Data processing and aggregation

All the data containing interviews conducted on each day were aggregated by FSs on a weekly basis for GATS fieldwork data collection. Each supervisor exported the data from the field interviewer's handheld device into his/her SD card using a card reader and then e-mailed the exported data from the BPS-Regional Office to the National Data Centre at the BPS-Statistics Indonesia Headquarters. This data transmission process followed a partial network or Model B of the GATS standard data collection mechanism, as shown in Figure 2.1. In-country IT personnel aggregated the data that they had received from all supervisors every three/four days (Figure 2.1). On the final aggregation day, IT personnel with guidance from WHO IT
experts merged and aggregated all the files to a single standard data file (SDF). The aggregated final file was then ready for the weighting process. After the weighting process had been approved by the Survey Review Committee (SRC), the data were transposed to an analysable raw data format that could be read in any statistical software available for further analysis and reporting.

Figure 2.1: Data transmission process-GATS Indonesia, 2011


### 2.7. Statistical analysis

Complex survey data analysis was performed to obtain population estimates and their $95 \%$ confidence intervals. Sample weights were developed for each respondent following the standard procedures established in the GATS sample design and sample weights manuals for GATS data. The details on sample weighting process are described in Appendix B. The final weights were used in all analyses to produce estimates of population parameters and their confidence intervals. All weighting computations were carried out using SPSS and cross-verified using SAS for additional quality assurance and all computations of estimates and their confidence intervals were performed using the SPSS 18 complex samples module.

## 3. Sample and population characteristics

This chapter presents information on sample coverage and characteristics of the population. The population estimates are based on the 2010 Population Census, which was projected to September 2011 in order to represent the population characteristics at the time of the survey.

### 3.1. Coverage of the sample

Table 3.1 shows the unweighted number and percentage of households and persons interviewed, and response rates by place of residence. Of the 8994 households selected for the survey, 8581 (95.4\%) completed the household interview; and 8305 ( $96.8 \%$ ) selected eligible persons successfully completed the individual interview. The total response rate of the survey was $94.3 \%$. The total response rate in rural areas was found to be higher than that in urban areas ( $95.0 \%$ and $93.6 \%$, respectively). The household response rate was $97.4 \%$. With respect to urban and rural household response rates, the latter had a higher rate than the former ( $98.2 \%$ for rural and $96.6 \%$ for urban areas). However, $2.4 \%$ households were found unoccupied in urban areas, while only $1.5 \%$ were unoccupied in rural areas. Nobody was at home in $1.2 \%$ cases in both urban and rural areas. The number of eligible persons in urban areas (4238) was slightly lower than that in rural areas (4343). The person-level response rate was found to be $96.8 \%$ and there were no differences with respect to urban and rural person-level response rates. The principal reasons for person-level non-response were-not at home (1.8\%), incapacitated (1.0\%) and refused (0.3\%). The proportion of not-at-home persons was higher in urban areas (1.9\%) compared to rural areas (1.6\%). On the other hand, the proportion of incapacitated persons was higher in rural areas than in urban areas, $1.2 \%$ and $0.8 \%$, respectively.

### 3.2. Characteristics of survey respondents

Table 3.2 presents the unweighted sample size and population estimates by gender and selected demographic socioeconomic characteristics of the household population, including age, place of residence, level of education and occupation/work status.

The unweighted sample count (complete responses) was 8305. The estimated total Indonesian population aged 15 years and above was 172.1 million in 2011. In classifying sample distribution by gender, the survey enumerated a total of 3948 men and 4357 women. These sample counts yielded a de facto population estimate of 85.9 million men and 86.2 million women. The number of unweighted samples in urban areas was smaller than that in the rural areas (4102 and 4203 samples, respectively). However, the weighted population in urban areas was slightly higher than in rural areas ( 86.4 million in urban and 85.8 million in rural areas). A large proportion of adults were between 25 and 44 years of age (45.1\%), $24.1 \%$ were in the 15-24 years age group, followed by $23.7 \%$ in the $45-64$ years age group and $7.1 \%$ in the age group of 65 years and above.A similar proportion was observed not only among adult men but also among adult women. For example, $24.3 \%$ of adult men were in the $15-24$ years age group, $24 \%$ in the $45-64$ years age group and only $6.3 \%$ in the last age group of 65 years and above. The majority of adult men were in the $25-44$ years age group amounting to $45.4 \%$ of total adult men. Similarly, the largest proportion of adult women was also in the 25-44 years age group. The proportion of persons in the other age groups were $24.0 \%, 23.4 \%$, and $7.8 \%$ in the $15-24,45-66$, and 65 years and above age groups, respectively.

For all eligible respondents aged 15 years and above, data were collected on the highest level of education completed. For the purpose of this report, the educational level was grouped into five different categories - less than primary school completed, primary school completed, secondary school completed, high school completed and college/university and above. A large proportion of the sample was primary school completed ( $27.2 \%$ ) followed by high school completed (23.0\%). On the other hand, college and university graduates constituted only $6.8 \%$. Distribution of adult men and women across educational levels showed that the majority of both adult men and women had also only completed primary school certificate ( $26.4 \%$ and $28.1 \%$, respectively). Adult men were more educated than adult women. As shown in the table, the proportion of adult men who had completed secondary school was more than that of adult women. The proportion of adult
men who were college/university graduates was $7.3 \%$, whereas it was $6.4 \%$ for their women counterparts. The proportion of secondary school completed and high school completed was $21.3 \%$ for men and $20.6 \%$ for women, and $26.1 \%$ for men and $19.9 \%$ for women, respectively. On the other hand, the proportion of adult women with less than primary school completed was much higher than that of adult men, $25.1 \%$ for women and $18.8 \%$ for men.

The 2011 GATS individual questionnaire asked all respondents their main work status in the 12 months preceding the survey. The various categories were merged to form five exclusive occupation categories - employed, self-employed, student, home maker and unemployed. This categorization was used throughout the report for depicting differentials in various indicators. Table 3.2 presents the data on occupation. Overall, $28.5 \%$ of all adults were employed, $34.3 \%$ were selfemployed and $21.3 \%$ reported to be home makers. The proportion of adults who were students was $8.1 \%$. Only $7.8 \%$ of the total population was unemployed. When this proportion was broken down by gender, more than $40 \%$ of adult women were home makers, which was the largest proportion among occupation levels; whereas for adult men, the majority were selfemployed (44.3\%). The second-largest occupation group for adult men was employed at $37.8 \%$, while self-employed (24.3\%) was the second-largest occupation group for adult women. The third-largest group was students (9.2\%) for men, and employed (19.2\%) for women. The unemployed category was more prominent among adult men (8.5\%) than among adult women (7.2\%) as the fourth-largest group. The smallest proportion was home-makers ( $0.1 \%$ ) for adult men, and students (7\%) for adult women.

Table 3.1. Number and percentage of households and persons interviewed and response rates by residence (unweighted) - GATS Indonesia, 2011

| Demographic characteristics | Residence |  |  |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Urban |  | Rural |  |  |  |
|  | $N$ | \% | $N$ | \% | N | \% |
| Selected households |  |  |  |  |  |  |
| Completed, person selected forinterview |  | 4238 | 94.2 | 4343 | 96.6 | 8581 | 95.4 |
| Completed, no one eligible for interview | 2 | 0.0 | 2 | 0.0 | 4 | 0.0 |
| Incomplete | 3 | 0.1 | 0 | 0.0 | 3 | 0.0 |
| No screening respondent | 48 | 1.1 | 16 | 0.4 | 64 | 0.7 |
| Nobody at home | 55 | 1.2 | 54 | 1.2 | 109 | 1.2 |
| Refused | 27 | 0.6 | 8 | 0.2 | 35 | 0.4 |
| Unoccupied | 108 | 2.4 | 68 | 1.5 | 176 | 2.0 |
| Address not a dwelling | 4 | 0.1 | 1 | 0.0 | 5 | 0.1 |
| Other | 14 | 0.3 | 3 | 0.1 | 17 | 0.2 |
| Total households selected | 4499 | 100 | 4495 | 100 | 8994 | 100 |
| Household response rate ${ }^{1}$ | 96. |  | 98.2 |  | 97. |  |
| Selected persons |  |  |  |  |  |  |
| Completed | 4102 | 96.8 | 4203 | 96.8 | 8305 | 96.8 |
| Incomplete | 1 | 0.0 | 4 | 0.1 | 5 | 0.0 |
| Not eligible | 2 | 0.0 | 2 | 0.0 | 4 | 0.0 |
| Not at home | 81 | 1.9 | 70 | 1.6 | 151 | 1.8 |
| Refused | 18 | 0.4 | 10 | 0.2 | 28 | 0.3 |
| Incapacitated | 32 | 0.8 | 53 | 1.2 | 85 | 1.0 |
| Other | 2 | 0.0 | 1 | 0.0 | 3 | 0.0 |
| Total eligible persons | 4238 | 100 | 4343 | 100 | 8581 | 100 |
| Person-level response rate ${ }^{2}$ | 96. |  | 96.8 |  | 96. |  |
| Total response rate | 93. |  | 95. |  | 94. |  |

1. Calculate Household Response Rate (HRR) by:

$$
100 *[\mathrm{HC}]
$$

$$
[\mathrm{HC}]+[\mathrm{HINC}]+[\mathrm{HNS}]+[\mathrm{NHH}]+[\mathrm{HR}]+[\mathrm{HO}]
$$

where (Selected households): HC = "Completed, person selected for interview"; HINC = "Incomplete"; HNS = "No screening respondent"; NHH = "Nobody home"; HR = "Refused"; HO = "Other"
2. Calculate Person-Level Response Rate (IRR) by:

100 * $[\mathrm{PC}]$

$$
[\mathrm{PC}]+[\mathrm{PINC}]+[\mathrm{PNAH}]+[\mathrm{PR}]+[\mathrm{PI}]+[\mathrm{PO}]
$$

where (Selected persons): PC = "Completed"; PINC = "Incomplete"; PNAH = "Not at home"; PR = "Refused"; PI = "Incapacitated"; PO = "Other"
3. Calculate Total Response Rate (TRR) by: (HRR * IRR) / 100

Notes: 1) Notice that Household questionnaire incomplete [HINC] was not included in the numerator of the household response rate. Therefore, a household screening questionnaire that is incomplete (i.e., the roster could not be finished) was considered a nonrespondent to the GATS. 2) Completed individual interview [PC] includes respondents who have completed at least question E1 and who provide valid answers to questions B1/B2/B3 and C1/C2/C3 (when applicable). Therefore, the respondents who did not meet this criteria were considered as an eligible nonrespondent to GATS and thus, incompletes [PINC] were not included in the numerator of the individual response rate.
Table 3.2: Distribution of a dults $\geq 15$ years old by gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Overall |  |  | Male |  |  | Female |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weighted |  | Unweighted Number of Adults | Weighted |  | Unweighted Number of Adults | Weighted |  | Unweighted Number of Adults |
|  | Percentage $\left(95 \% \mathrm{Cl}^{1}\right)$ | Number of Adults (in thousands) |  | Percentage $\left(95 \% \mathrm{Cl}^{1}\right)$ | Number of Adults (in thousands) |  | Percentage $\left(95 \% \mathrm{Cl}^{1}\right)$ | Number of Adults (in thousands) |  |
| Overall | 100 | 172,125.7 | 8,305 | 100 | 85,897.8 | 3,948 | 100 | 86,227.9 | 4,357 |
| Gender |  |  |  |  |  |  |  |  |  |
| Male | 49.9 (48.6, 51.2) | 85,897.8 | 3,948 | NA NA | NA | NA | NA NA | NA | NA |
| Female | 50.1 (48.8, 51.4) | 86,227.9 | 4,357 | NA NA | NA | NA | NA NA | NA | NA |
| Age (years) |  |  |  |  |  |  |  |  |  |
| 15-24 | 24.1 (22.7, 25.7) | 41,553.1 | 1,408 | 24.3 (22.4, 26.4) | 20,898.2 | 674 | 24.0 (22.1, 25.9) | 20,654.9 | 734 |
| 25-44 | 45.1 (43.6, 46.6) | 77,621.0 | 3,883 | 45.4 (43.3, 47.5) | 38,979.0 | 1,870 | 44.8 (43.0, 46.6) | 38,642.0 | 2,013 |
| 45-64 | 23.7 (22.6, 24.8) | 40,786.6 | 2,218 | 24.0 (22.4, 25.5) | 20,575.0 | 1,072 | 23.4 (22.0, 24.9) | 20,211.6 | 1,146 |
| 65+ | 7.1 (6.2, 8.0) | 12,164.9 | 796 | 6.3 (5.5, 7.3) | 5,445.6 | 332 | 7.8 (6.8, 9.0) | 6,719.3 | 464 |
| Residence |  |  |  |  |  |  |  |  |  |
| Urban | $50.2(48.8,51.6)$ | 86,373.0 | 4,102 | 50.2 (48.2, 52.2) | 43,133.6 | 1,972 | 50.1 (48.3, 52.0) | 43,239.5 | 2,130 |
| Rural | 49.8 (48.4, 51.2) | 85,752.7 | 4,203 | 49.8 (47.8, 51.8) | 42,764.2 | 1,976 | 49.9 (48.0, 51.7) | 42,988.5 | 2,227 |
| Education Level |  |  |  |  |  |  |  |  |  |
| Less than primary school completed | 22.0 (19.3, 24.9) | 37,793.8 | 2,131 | 18.8 (16.1, 21.8) | 16,153.0 | 849 | 25.1 (22.2, 28.3) | 21,640.8 | 1,282 |
| Primaryschool completed | 27.2 (24.9, 29.7) | 46,872.0 | 2,288 | 26.4 (23.8, 29.2) | 22,688.3 | 1,068 | 28.1 (25.6, 30.7) | 24,183.7 | 1,220 |
| Secondary school completed | 20.9 (19.4, 22.6) | 36,042.6 | 1,525 | 21.3 (19.5, 23.3) | 18,302.8 | 747 | 20.6 (18.7, 22.6) | 17,739.8 | 778 |
| High school completed | 23.0 (20.7, 25.5) | 39,556.0 | 1,785 | 26.1 (23.4, 29.0) | 22,451.7 | 983 | 19.9 (17.5, 22.4) | 17,104.3 | 802 |
| College or University + | 6.8 (5.7, 8.2) | 11,778.1 | 573 | 7.3 (6.1, 8.8) | 6,301.9 | 301 | 6.4 (5.1, 8.0) | 5,476.2 | 272 |
| Occupation/Work status |  |  |  |  |  |  |  |  |  |
| Employed | 28.5 (25.5, 31.6) | 48,975.7 | 2,341 | 37.8 (33.8, 42.0) | 32,464.0 | 1,516 | 19.2 (16.5, 22.1) | 16,511.7 | 825 |
| Self-employed | 34.3 (31.0, 37.8) | 59,035.7 | 3,013 | 44.3 (40.4, 48.4) | 38,076.4 | 1,843 | 24.3 (20.8, 28.2) | 20,959.3 | 1,170 |
| Students | 8.1 (7.1, 9.3) | 13,950.1 | 477 | 9.2 (7.9, 10.8) | 7,937.8 | 265 | 7.0 (5.8, 8.4) | 6,012.3 | 212 |
| Home makers | 21.3 (19.5, 23.2) | 36,653.9 | 1,855 | 0.1 (0.0, 0.2) | 85,7 | 5 | 42.4 (39.1, 45.8) | 36,568.2 | 1,850 |
| Un-employed | 7.8 (6.9, 8.9) | 13,463.8 | 616 | 8.5 (7.3, 9.9) | 7,294.6 | 317 | 7.2 (6.1, 8.4) | 6,169.2 | 299 |

[^0]
## 4. Tobacco Use

This chapter presents data on tobacco use and includes information on two commonly used tobacco products in Indonesia, i.e. smoked tobacco products and smokeless tobacco products. Smoked tobacco products include manufactured, hand-rolled and kretek cigarettes, and other smoked tobacco products. Different sections in this chapter present a detailed overview of smoking status, the number of smoked tobacco products used on a daily and non-daily basis, age at initiation of smoking, time since quitting smoking and time after waking up to first smoke of the day.

## Key findings

- 59.8 million adults ( $34.8 \%-67.0 \%$ men and $2.7 \%$ women) currently smoke tobacco and 2.9 million adults (1.7\%) currently use smokeless tobacco products.
- Kretek cigarettes (31.5\%) are the most popular tobacco product used in Indonesia.
- On an average, 12.8 cigarette sticks are smoked per day.
- Average age at daily smoking initiation is 17.6 years; $12.3 \%$ started smoking before 15 years of age.
- Of those who have ever smoked on a daily basis, 9.5\% have quit smoking.
- Among daily smokers, $38.3 \%$ have the first cigarette of the day within 5-30 minutes of waking up.


### 4.1. Prevalence of tobacco use

### 4.1.1. Prevalence of smoking

Table 4.1 gives the prevalence of smoking tobacco by "current tobacco smokers" and "non-smokers". Current tobacco smokers include "daily smokers" and "occasional smokers". Non-smokers include "former daily smokers" and "never daily smokers". The overall prevalence rate of current smokers is $34.8 \%$. It is particularly high among men (67.0\%), who have 30 times the prevalence rate of women (2.7\%).

Table 4.1: Percentage of a dults $\geq 15$ years old, by detailed smoking status and gender - GATS Indonesia, 2011.

| Smoking Status | Overall | Male | Female |  |
| :--- | :---: | :---: | :---: | :---: |
|  |  |  | Percentage (95\% Cl) |  |
| Current tobacco smoker | $34.8(33.2,36.4)$ | $67.0(64.4,69.5)$ | $2.7(2.0,3.5)$ |  |
| Daily smoker | $29.2(27.6,30.9)$ | $56.7(53.8,59.6)$ | $1.8(1.4,2.4)$ | $0.8(0.5,1.3)$ |
| Occasional smoker | $5.6(4.8,6.4)$ | $10.3(9.0,11.8)$ | $0.2(0.1,0.3)$ |  |
| Occasional smoker, formerly daily | $2.1(1.6,2.6)$ | $4.0(3.1,5.0)$ | $0.7(0.4,1.1)$ |  |
| Occasional smoker, never daily | $3.5(3.0,4.1)$ | $6.4(5.4,7.5)$ | $97.3(96.5,98.0)$ |  |
| Non-smoker | $65.2(63.6,66.8)$ | $33.0(30.5,35.6)$ | $0.6(0.4,1.0)$ | $96.7(95.8,97.5)$ |
| Former daily smoker | $3.3(2.8,3.9)$ | $6.0(5.0,7.2)$ | $1.5(1.0,2.0)$ | $27.0(24.6,29.5)$ |
| Never daily smoker | $61.9(60.3,63.5)$ | $4.9(4.0,6.1)$ | $95.3(94.0,96.3)$ |  |
| Former occasional smoker | $3.2(2.6,3.9)$ | $22.0(19.6,24.6)$ |  |  |
| Never smoker | $58.7(57.0,60.5)$ |  |  |  |

Note: Current use includes both daily and occasional (less than daily) use.

Non-smokers account for $65.2 \%$ of the overall adult population. Among them, only $3.3 \%$ are former daily smokers and $61.9 \%$ are never daily smokers. The proportion of never smokers among women is $95.3 \%$ while that among men is $22.0 \%$.

### 4.1.2. Prevalence of smokeless tobacco use

Table 4.1A gives the use of smokeless tobacco by gender. Current smokeless tobacco use is low, with an overall prevalence rate of only $1.7 \%$. Among current smokeless tobacco users, $1.2 \%$ are daily users and $0.5 \%$ are occasional users. Women (1.3\%) use smokeless tobacco more than men (1.1\%) on a daily basis. Overall, $98.3 \%$ are non-users of smokeless tobacco, of whom only $0.5 \%$ are former daily users and $1.0 \%$ are former occasional users.

Table 4.1A. Percentage of adults 15 years and above, by detailed smokeless tobacco use status, gender and residence - GATS Indonesia, 2011

| Smokeless tobacco use status | Overall | Male | Female |
| :--- | :---: | :---: | :---: |
|  | Percentage $(95 \% \mathrm{Cl})$ |  |  |
| Current smokeless tobacco users | $1.7(1.4,2.2)$ | $1.5(1.1,2.2)$ | $2.0(1.4,2.7)$ |
| Daily users | $1.2(0.9,1.5)$ | $1.1(0.8,1.6)$ | $1.3(0.9,1.8)$ |
| Occasional users | $0.5(0.3,0.9)$ | $0.4(0.2,0.9)$ | $0.7(0.4,1.2)$ |
|  |  |  |  |
| Occasional users, formerly daily | $0.1(0.0,0.2)$ | $0.1(0.0,0.5)$ | $0.1(0.0,0.2)$ |
|  | $0.4(0.3,0.7)$ | $0.3(0.2,0.6)$ | $0.6(0.3,1.1)$ |
| Occasional users, never daily | $98.3(97.8,98.6)$ | $98.5(97.8,98.9)$ | $98.0(97.3,98.6)$ |
| Non-users of smokeless tobacco | $0.5(0.3,0.8)$ | $0.3(0.1,0.8)$ | $0.7(0.4,1.0)$ |
| Former daily users | $97.8(97.2,98.2)$ | $98.2(97.3,98.8)$ | $97.4(96.5,98.0)$ |
| Never daily users | $1.0(0.6,1.6)$ | $0.7(0.3,1.3)$ | $1.4(0.8,2.4)$ |
| $\quad$ Former occasional users | $96.8(95.9,97.5)$ | $97.5(96.3,98.4)$ | $96.0(94.6,97.0)$ |
| $\quad$ Never users |  |  |  |

Note: Current use includes both daily and occasional (less than daily) use.

### 4.2. Number of tobacco users

### 4.2.1. Number of smoked tobacco users

Table 4.2 presents the estimated number of adult smokers corresponding to the prevalence estimates presented on smoking status in Table 4.1 by gender. The estimated number of adult smokers in Indonesia is 59.9 million (57.6 million men and 2.3 million women). The number of daily smokers is 50.3 million and the number of occasional smokers is 9.6 million). The estimated number of non-smokers is 112.2 million, of whom 5.7 million are former daily smokers and 106.6 million are never daily smokers.

Table 4.2: Number of adults $\geq 15$ years old, by detailed smoking status and gender GATS Indonesia, 2011.

| Smoking Status | Overall | Male | Female |
| :--- | ---: | ---: | ---: |
| Current tobacco smoker | Number in thousands |  |  |
| Daily smoker | $59,884.5$ | $57,586.8$ | $2,297.7$ |
| Occasional smoker | $50,302.1$ | $48,736.1$ | $1,565.9$ |
| Occasional smoker, formerly daily | $9,582.4$ | $8,850.6$ | 731.7 |
| Occasional smoker, never daily | $3,539.1$ | $3,393.7$ | 145.4 |
| Non-smoker | $6,043.3$ | $5,457.0$ | 586.3 |
| Former daily smoker | $112,241.2$ | $28,311.0$ | $83,930.2$ |
| Never daily smoker | $5,665.3$ | $5,148.1$ | 517.2 |
| Former occasional smoker | $106,575.9$ | $23,162.8$ | $83,413.1$ |
| Never smoker | $5,501.5$ | $4,246.0$ | $1,255.5$ |

Note: Current use includes both daily and occasional (less than daily) use.

### 4.2.2. Number of smokeless tobacco users

Table 4.2A presents the total population corresponding to the prevalence estimates presented on smokeless tobacco users' status in Table 4.1A by gender. The estimated number of current users of smokeless tobacco is 2.9 million ( 1.3 million men and 1.6 million women). The number of daily smokeless tobacco users is 2.0 million; 0.9 million are men and 1.1 million are women. The number of occasional smokeless tobacco users is 0.9 million. Out of 166.2 million non-users of smokeless tobacco, only 0.8 million adults are reported to be former daily users whereas 165.4 million are never daily users. Among never daily users, 163.7 million reported that they have never used any smokeless tobacco in their lifetime.

Table 4.2A: Number of adults $\geq 15$ years old, by detailed smokeless tobacco use status and gender-GATS Indonesia, 2011.

| Smokeless Tobacco Use Status | Overall | Male | Female |
| :--- | ---: | ---: | ---: |
|  | Number in thousands |  |  |
| Current smokeless tobacco user | $2,932.7$ | $1,277.3$ | $1,655.3$ |
| Daily user | $2,007.1$ | 928.4 | $1,078.8$ |
| Occasional user | 925.5 | 348.9 | 576.6 |
| Occasional user, formerly daily | 166.1 | 90.4 | 75.7 |
| Occasional user, never daily | 759.5 | 258.6 | 500.9 |
| Non-user of smokeless tobacco | $166,217.6$ | $83,063.3$ | $83,154.3$ |
| Former daily user | 811.1 | 239.3 | 571.8 |
| Never daily user | $165,406.5$ | $82,824.0$ | $82,582.5$ |
| $\quad$ Former occasional user | $1,733.8$ | 557.0 | $1,176.8$ |
| Never user | $163,672.7$ | $82,267.0$ | $81,405.7$ |

Note: Current use includes both daily and occasional (less than daily) use.

### 4.3. Prevalence of current smokers by smoked tobacco products

Table 4.3 presents data on smoked tobacco products overall and separately by demographic characteristics. In Indonesia, these products include cigarettes, kreteks, and other smoked tobacco products such as pipes, cigars, shisha and others. Cigarettes are of two categories - white cigarettes and hand-rolled cigarettes. The overall prevalence rate of smokers of any smoked tobacco profuct is $34.8 \%$. The prevalence of current kretek smoking is reported as $31.5 \%$, followed by hand-rolled cigarette smoking (4.7\%), white cigarette smoking (2.2\%) and the least
for other smoked products ( $0.3 \%$ ). Figure 4.1 presents a detailed distribution of the prevalence of various smoking products.

Figure 4.1. Type of products smoked among current cigarette smokers - GATS Indonesia, 2011


Note: All figures are in percentages.

Current smoking is more prevalent in the age group of 25-44 and 45-64 years as compared to the younger (1524 years) and older age groups (65+ years). Kretek smoking is more prevalent in the age group of 25-64 years as compared to the younger ( $15-24$ years) and older age groups ( $65+$ years), while hand-rolled cigarette smoking showed a definite increasing trend with age. White cigarette smoking did not differ by age.

Smoking is more prevalent in rural areas as compared to urban areas. Kretek and hand-rolled cigarette smoking is more prevalent in rural areas as compared to urban areas. White cigarette smoking is more prevalent in urban areas. Other smoking products did not differ by residence.

The prevalence rate of any smoked tobacco product is highest among those with less than primary school education (38.0\%) and lowest among those with college or university education(27.6\%). Kretek smoking did not show any difference by educational category, while hand-rolled cigarette smoking was higher among the less educated (less than primary, and primary) as compared to those who were more educated (high school and college/university educated). White cigarette smoking is higher more in college/university educated people as compared to less educated people (primary or less than primary).

Current smoking is higher among employed and self-employed categories as compared to the unemployed category. Kretek smoking was higher among the employed and self-employed categories as compared to the unemployed category; however, this pattern was not seen in hand-rolled and white cigarette smoking.

Table 4.3 (continued) also presents data on smoked tobacco products overall and by demographic characteristics separately for men and for women.
Table 4.3(cont): Percentage of adults $\geq 15$ years old who are current smokers of various smoked tobacco products, by gender and selected demographic
characteristics - GATS Indonesia, 2011 .

| Demographic Characteristic | Any smoked tobacco product | Any cigarette ${ }^{1}$ | Type of Cigarette |  |  | Other smoked tobacco ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | White ${ }^{+}$ | Hand-rolled | Kretek |  |
|  | Percentage(95\% CI) |  |  |  |  |  |
| Male | 67.0 (64.4, 69.5) | 67.0 (64.4, 69.5) | 4.3 (3.2, 5.8) | 9.0 (6.7, 12.0) | 60.9 (57.9, 63.8) | 0.5 (0.3, 1.1) |
| Age (years) |  |  |  |  |  |  |
| 15-24 | 51.7 (47.1, 56.3) | 51.7 (47.1, 56.3) | 3.7 (2.4, 5.7) | 2.2 (1.1, 4.4) | 50.0 (45.2, 54.7) | $0.8(0.3,2.4)$ |
| 25-44 | 73.3 (70.2, 76.1) | 73.3 (70.2, 76.1) | 5.8 (4.2, 8.0) | 7.1 (4.6, 10.7) | 67.4 (64.0, 70.6) | $0.4(0.2,1.0)$ |
| 45-64 | 72.4 (68.1, 76.3) | 72.4 (68.1, 76.3) | 2.2 (1.2, 4.1) | 14.7 (11.2, 19.0) | 64.6 (60.1, 68.8) | 0.3 (0.1, 1.0) |
| 65+ | 61.2 (54.9, 67.1) | $61.0(54.8,67.0)$ | 3.3 (1.6, 6.4) | $27.2(20.8,34.7)$ | 42.5 (36.1, 49.1) | $0.9(0.2,4.1)$ |
| Residence |  |  |  |  |  |  |
| Urban | 61.6 (58.2, 65.0) | 61.6 (58.2, 65.0) | 5.5 (3.6, 8.2) | $4.6(2.8,7.5)$ | 55.3 (51.1, 59.3) | 0.6 (0.2, 1.7) |
| Rural | 72.5 (68.7, 76.0) | 72.5 (68.6, 76.0) | 3.1 (2.0, 4.6) | 13.5 (9.4, 18.9) | 66.6 (62.4, 70.5) | 0.5 (0.2, 1.0) |
| Education Level |  |  |  |  |  |  |
| Less than primary school completed | 81.0 (76.5, 84.9) | 81.0 (76.5, 84.9) | 1.9 (1.1, 3.3) | 23.2 (17.3, 30.4) | 69.9 (64.0, 75.1) | 0.4 (0.1, 1.5) |
| Primaryschool completed | 74.0 (70.3, 77.4) | 74.0 (70.2, 77.4) | 2.7 (1.6, 4.5) | 12.1 (8.7, 16.6) | 67.3 (62.6, 71.8) | 0.1 (0.0, 0.7) |
| Secondary school completed | 62.3 (58.0, 66.4) | 62.3 (58.0, 66.4) | 4.1 (2.6, 6.6) | 3.1 (1.8, 5.3) | 58.9 (54.4, 63.3) | 0.3 (0.1, 1.1) |
| High school completed | 58.7 (55.2, 62.0) | 58.7 (55.2, 62.0) | 6.6 (4.8, 9.0) | $2.4(1.4,4.2)$ | 53.6 (49.8, 57.4) | $0.8(0.3,1.9)$ |
| College or University + | 49.8 (43.2, 56.4) | 49.8 (43.2, 56.4) | 8.4 (4.8, 14.3) | 2.0 (0.7, 5.5) | 46.3 (39.7, 53.1) | 1.9 (0.5, 7.0) |
| Occupation/Work status |  |  |  |  |  |  |
| Employed | 69.8 (66.3, 73.1) | 69.8 (66.2, 73.1) | 4.5 (3.1, 6.6) | $8.2(5.4,12.4)$ | 64.1 (60.2, 67.8) | $0.5(0.2,1.3)$ |
| Self-employed | 75.7 (72.3, 78.8) | 75.7 (72.3, 78.8) | 4.4 (3.1, 6.2) | $11.8(8.8,15.8)$ | 68.0 (64.0, 71.8) | 0.5 (0.2, 0.9) |
| Students | 25.1 (19.6, 31.4) | 25.1 (19.6, 31.4) | 2.6 (1.2, 5.2) | 0.5 (0.1, 3.4) | 24.1 (18.7, 30.5) | 0.5 (0.1, 3.6) |
| Home makers | -- | -- | -- | -- | -- | -- |
| Un-employed | 55.4 (48.5, 62.1) | 55.4 (48.5, 62.1) | 4.6 (2.5, 8.2) | 6.8 (4.0, 11.2) | 49.4 (42.5, 56.4) | 0.9 (0.2, 3.8) | Note: Current use includes both daily and occasional(less than daily) use.

${ }^{1}$ Includes white cigarete, hand rolled and kretek cigarettes.
${ }^{2}$ Includes (pipes full of tobacco, cigars, shisha sessions, and any others).

+ White cigarettes represents manufactured cigarettes.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.
Table 4.3(cont): Percentage of adults $\geq 15$ years old who are current smokers of various smoked tobacco products, by gender and selected demographic characteristics - GATS ndonesia, 2011.

| Demographic Characteristic | Any smoked tobacco product | Any cigarette ${ }^{1}$ | Type of Cigarette |  |  |  | Other smoked tobacco ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | White ${ }^{+}$ | Hand-rolled |  | Kretek |  |
|  | Percentage(95\% CI) |  |  |  |  |  |  |
| Female | 2.7 (2.0, 3.5) | 2.7 (2.0, 3.5) | 0.1 (0.0, 0.4) | $0.5(0.3,0.8)$ | 2.3 | (1.7, 3.1) | 0.1 (0.0, 0.3) |
| Age (years) |  |  |  |  |  |  |  |
| 15-24 | 0.1 (0.0, 0.7) | 0.1 (0.0, 0.7) | 0.0 | 0.0 | 0.1 | (0.0, 0.7) | 0.0 |
| 25-44 | 1.7 (1.1, 2.6) | 1.7 (1.1, 2.6) | 0.1 (0.0, 0.5) | 0.3 (0.1, 1.0) | 1.6 | $(1.0,2.4)$ | 0.1 (0.0, 0.6) |
| 45-64 | 5.8 (4.1, 8.1) | 5.8 (4.1, 8.1) | $0.1(0.0,0.5)$ | $0.9(0.5,1.8)$ | 5.2 | $(3.7,7.5)$ | 0.0 |
| 65+ | 6.7 (4.1, 11.0) | 6.7 (4.1, 11.0) | $0.8(0.1,5.5)$ | 1.8 (0.7, 4.3) | 4.5 | $(2.4,8.2)$ | 0.5 (0.1, 3.2) |
|  |  |  |  |  |  |  |  |
| Urban | 2.3 (1.4, 3.7) | 2.3 (1.4, 3.7) | $0.2(0.0,0.8)$ | 0.2 (0.0, 0.6) | 2.0 | (1.2, 3.4) | 0.1 (0.0, 0.5) |
| Rural | 3.0 (2.2, 4.2) | 3.0 (2.2, 4.2) | 0.1 (0.0, 0.2) | 0.8 (0.4, 1.5) | 2.6 | $(1.8,3.6)$ | 0.1 (0.0, 0.5) |
|  |  |  |  |  |  |  |  |
| Less than primary school completed | 5.8 (4.2, 8.1) | 5.8 (4.2, 8.1) | $0.2(0.0,1.7)$ | 1.5 (0.8, 2.9) | 4.6 | (3.2, 6.6) | 0.1 (0.0, 1.0) |
| Primary school completed | 2.7 (1.7, 4.2) | $2.7(1.7,4.2)$ | 0.1 (0.0, 0.4) | 0.3 (0.1, 0.8) | 2.6 | $(1.6,4.2)$ | 0.1 (0.0, 1.0) |
| Secondary school completed | 0.6 (0.2, 1.5) | 0.6 (0.2, 1.5) | 0.0 | 0.0 | 0.6 | $(0.2,1.5)$ | 0.0 |
| High school completed | $1.0(0.5,1.9)$ | 1.0 (0.5, 1.9) | 0.0 | 0.0 | 1.0 | (0.5, 1.9) | 0.0 |
| College or University + | 2.2 (0.9, 5.4) | 2.2 (0.9, 5.4) | 0.5 (0.1, 3.5) | 0.5 (0.1, 3.5) | 1.7 | $(0.6,4.8)$ | 0.0 |
| Occupation/Work status |  |  |  |  |  |  |  |
| Employed | 1.5 (0.8, 2.7) | 1.5 (0.8, 2.7) | 0.1 (0.0, 0.6) | 0.4 (0.2, 1.1) | 1.4 | (0.7, 2.5) | 0.0 |
| Self-employed | 4.2 (2.9, 6.1) | 4.2 (2.9, 6.1) | 0.2 (0.0, 0.8) | $0.7(0.3,1.6)$ | 3.7 | $(2.5,5.5)$ | 0.1 (0.0, 1.0) |
| Students | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |  | 0.0 |
| Home makers | 2.6 (1.7, 4.0) | 2.6 (1.7, 4.0) | 0.1 (0.0, 1.0) | 0.4 (0.2, 1.0) | 2.3 | $(1.4,3.6)$ | 0.1 (0.0, 0.6) |
| Un-employed | 3.4 (1.8, 6.1) | 3.4 (1.8, 6.1) | 0.0 | 0.8 (0.2, 2.8) |  | $(1.3,5.1)$ | 0.0 |
| Note: Current use includes both daily and occasional(less than daily) use. |  |  |  |  |  |  |  |
| ${ }^{1}$ Includes white cigarette, hand rolled and kretek cigarettes. |  |  |  |  |  |  |  |
| ${ }^{2}$ Includes (pipes full of tobacco, cigars, shisha sessions, and any others). |  |  |  |  |  |  |  |

### 4.4. Number of current smokers by smoked tobacco products

Table 4.4 (based on Table 4.3) presents the estimated number of overall current smokers, and separately for men and women current smokers. The overall estimated number of current smokers who smoke various tobacco products is 59.9 million persons. This indicates a very high national burden of tobacco use in Indonesia. The number of hand-rolled cigarette users ( 8.1 million) is higher than the number of white cigarette users ( 3.8 million). About 54.3 million persons smoke kreteks and nearly half a million smoke other products such as pipes, cigars, shisha and others.

By gender, the number of men smokers who use any smoked tobacco product is 57.6 million. The number of men smokers who use hand-rolled cigarettes ( 7.7 million) is higher than the number of those who use white cigarettes ( 3.7 million). About 53.3 million men smoke kreteks. The number of women current smokers ( 2.3 million) is far less (about 25 times less) than men current smokers. The number of women smokers who use hand-rolled cigarettes ( 0.4 million) is higher than the number of those who use white cigarettes ( 0.1 million). Almost 2 million women smoke kreteks.

The 25-44 years age group has the highest number of smokers among those who use any smoked tobacco product ( 29.2 million), white cigarettes ( 2.3 million) and kreteks ( 26.9 million). Hand-rolled cigarette users, however, show a higher prevalence in the 45-64 years age group.

The overall number of smokers living in rural areas ( 32.3 million) is higher than those who live in urban areas (27.6 million). Hand-rolled cigarettes and kretek smoking are more common in rural areas ( 6.1 million and 29.6 million, respectively) than urban areas ( 2.1 million and 24.7 million, respectively). However, the number of white cigarete users in urban areas ( 2.4 million) is higher than those in rural areas (1.3 million).

The lesser educated category (less than primary, primary and secondary) accounts for 43.3 million smokers, which is much more than those from the higher educated category (high school, college or university educated; 16.6 million). Among kretek smokers also, 39.1 million smokers belong to the less educated category (less than primary, primary and secondary) while 15.2 million belong to the more educated category (high school, college or university educated). The same pattern obtains for hand-rolled cigarette smoking; however, it is the reverse for white cigarette smokers.
Table 4.4: Number of a dults $\geq 15$ years old who are current smokers of various smoked tobacco products, by gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristic | Any smoked tobacco product | Any cigarette ${ }^{1}$ | Type of Cigarette |  |  | Other smoked tobacco ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | White ${ }^{+}$ | Hand-rolled | Kretek |  |
|  | Number in thousands |  |  |  |  |  |
| Overall | 59,884.5 | 59,874.0 | 3,779.7 | 8,147.3 | 54,295.2 | 506.2 |
| Age (years) |  |  |  |  |  |  |
| 15-24 | 10,828.0 | 10,828.0 | 772.7 | 465.2 | 10,464.2 | 169.2 |
| 25-44 | 29,210.0 | 29,210.0 | 2,292.7 | 2,879.2 | 26,873.9 | 197.3 |
| 45-64 | 16,060.1 | 16,060.1 | 484.9 | 3,202.3 | 14,345.1 | 62.9 |
| 65+ | 3,786.4 | 3,775.9 | 229.4 | 1,600.6 | 2,612.0 | 76.8 |
| Residence |  |  |  |  |  |  |
| Urban | 27,593.9 | 27,593.9 | 2,447.0 | 2,054.7 | 24,711.3 | 283.2 |
| Rural | 32,290.5 | 32,280.0 | 1,332.7 | 6,092.6 | 29,583.8 | 223.0 |
| Education Level |  |  |  |  |  |  |
| Less than primaryschool completed | 14,349.6 | 14,349.6 | 359.6 | 4,072.0 | 12,279.4 | 100.8 |
| Primary school completed | 17,433.4 | 17,422.9 | 628.7 | 2,808.1 | 15,907.0 | 64.8 |
| Secondary school completed | 11,498.3 | 11,498.3 | 758.1 | 572.7 | 10,884.2 | 47.8 |
| High school completed | 13,347.9 | 13,347.9 | 1,478.0 | 541.4 | 12,214.8 | 171.4 |
| College or University + | 3,255.2 | 3,255.2 | 555.3 | 153.2 | 3,009.7 | 121.5 |
| Occupation/Work status |  |  |  |  |  |  |
| Employed | 22,900.3 | 22,889.8 | 1,481.4 | 2,746.1 | 21,033.5 | 161.7 |
| Self-employed | 29,710.6 | 29,710.6 | 1,706.9 | 4,663.3 | 26,682.3 | 205.1 |
| Students | 1,990.2 | 1,990.2 | 203.4 | 37.5 | 1,913.3 | 40.2 |
| Home makers | 995.0 | 995.0 | 52.4 | 159.3 | 864.8 | 31.5 |
| Un-employed | 4,249.0 | 4,249.0 | 335.6 | 541.1 | 3,761.8 | 67.7 |

Note: Current use includes both daily and occasional(less than daily) use.
${ }^{1}$ Includes white cigarette, hand rolled and kretek cigarettes.
${ }^{2}$ Includes (pipes full of tobacco, cigars, shisha sessions, and any others).

+ White cigarettes represents manufactured cigarettes.
- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

Table 4.4 (cont): Number of adult males $\geq 15$ years old who are current smokers of various smoked tobacco products, by gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Any smoked tobacco product | Any cigarette ${ }^{1}$ | Type of Cigarette |  |  | Other smoked tobacco ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | White ${ }^{+}$ | Hand-rolled | Kretek |  |
|  | Number in thousands |  |  |  |  |  |
| Male | 57,586.8 | 57,576.3 | 3,677.5 | 7,731.1 | 52,302.9 | 444.5 |
| Age (years) |  |  |  |  |  |  |
| 15-24 | 10,808.4 | 10,808.4 | 772.7 | 465.2 | 10,444.5 | 169.2 |
| 25-44 | 28,552.9 | 28,552.9 | 2,265.9 | 2,769.7 | 26,260.4 | 165.8 |
| 45-64 | 14,891.9 | 14,891.9 | 461.9 | 3,014.4 | 13,285.9 | 62.9 |
| 65+ | 3,333.6 | 3,323.1 | 177.1 | 1,481.7 | 2,312.2 | 46.5 |
| Residence |  |  |  |  |  |  |
| Urban | 26,588.4 | 26,588.4 | 2,367.8 | 1,978.7 | 23,834.2 | 251.7 |
| Rural | 30,998.4 | 30,987.9 | 1,309.7 | 5,752.4 | 28,468.8 | 192.8 |
| Education Level |  |  |  |  |  |  |
| Less than primary school completed | 13,088.4 | 13,088.4 | 307.2 | 3,752.9 | 11,286.8 | 70.5 |
| Primary school completed | 16,791.6 | 16,781.2 | 605.7 | 2,737.8 | 15,275.2 | 33.3 |
| Secondary school completed | 11,396.0 | 11,396.0 | 758.1 | 572.7 | 10,781.9 | 47.8 |
| High school completed | 13,174.1 | 13,174.1 | 1,478.0 | 541.4 | 12,041.0 | 171.4 |
| College or University + | 3,136.6 | 3,136.6 | 528.5 | 126.3 | 2,917.9 | 121.5 |
| Occupation/Work status |  |  |  |  |  |  |
| Employed | 22,658.1 | 22,647.6 | 1,468.4 | 2,676.9 | 20,809.7 | 161.7 |
| Self-employed | 28,825.0 | 28,825.0 | 1,670.1 | 4,507.4 | 25,904.8 | 174.9 |
| Students | 1,990.2 | 1,990.2 | 203.4 | 37.5 | 1,913.3 | 40.2 |
| Home makers | -- | -- | -- | -- | -- | -- |
| Un-employed | 4,041.6 | 4,041.6 | 335.6 | 492.4 | 3,603.2 | 67.7 |

[^1]${ }^{1}$ Includes white cigarette, hand rolled and kretek cigarettes.
${ }^{2}$ Includes (pipes full of tobacco, cigars, shisha sessions, and any others).

+ White cigarettes represents manufactured cigarettes.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.
Table 4.4 (cont): Number of adult females $\geq 15$ years old who are current smokers of various smoked tobacco products, by gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristic | Any smoked tobacco product | Any cigarette ${ }^{1}$ | Type of Cigarette |  |  | Other smoked tobacco ${ }^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | White ${ }^{\text {+ }}$ | Hand-rolled | Kretek |  |
|  | Number in thousands |  |  |  |  |  |
| Female | 2,297.7 | 2,297.7 | 102.2 | 416.2 | 1,992.2 | 61.7 |
| Age (years) |  |  |  |  |  |  |
| 15-24 | 19.7 | 19.7 | 0.0 | 0.0 | 19.7 | 0.0 |
| 25-44 | 657.1 | 657.1 | 26.9 | 109.4 | 613.6 | 31.5 |
| 45-64 | 1,168.2 | 1,168.2 | 23.0 | 187.9 | 1,059.2 | 0.0 |
| 65+ | 452.7 | 452.7 | 52.4 | 118.9 | 299.8 | 30.3 |
| Residence |  |  |  |  |  |  |
| Urban | 1,005.6 | 1,005.6 | 79.2 | 76.0 | 877.2 | 31.5 |
| Rural | 1,292.1 | 1,292.1 | 23.0 | 340.2 | 1,115.1 | 30.3 |
| Education Level |  |  |  |  |  |  |
| Less than primary school completed | 1,261.2 | 1,261.2 | 52.4 | 319.1 | 992.7 | 30.3 |
| Primary school completed | 641.8 | 641.8 | 23.0 | 70.3 | 631.7 | 31.5 |
| Secondary school completed | 102.3 | 102.3 | 0.0 | 0.0 | 102.3 | 0.0 |
| High school completed | 173.8 | 173.8 | 0.0 | 0.0 | 173.8 | 0.0 |
| College or University + | 118.6 | 118.6 | 26.9 | 26.9 | 91.8 | 0.0 |
| Occupation/Work status |  |  |  |  |  |  |
| Employed | 242.3 | 242.3 | 13.0 | 69.2 | 223.8 | 0.0 |
| Self-employed | 885.6 | 885.6 | 36.9 | 156.0 | 777.5 | 30.3 |
| Students | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Home makers | 962.5 | 962.5 | 52.4 | 142.4 | 832.3 | 31.5 |
| Un-employed | 207.3 | 207.3 | 0.0 | 48.7 | 158.6 | 0.0 |

Note: Current use includes both daily and occasional(less than daily) use.
${ }^{1}$ Includes white cigarette, hand rolled and kretek cigarettes.
${ }^{2}$ Includes (pipes full of tobacco, cigars, shisha sessions, and any others).

+ White cigarettes represents manufactured cigarettes.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.


### 4.5. Frequency of tobacco use

### 4.5.1. Frequency of cigarette smoking

Table 4.5 presents the frequency of cigarette smoking as three standard categories - "daily cigarette smokers", "occasional cigarette smokers" and "non-smokers". The percentages of adults aged 15 years and over who are daily smokers, occasional smokers, and non-smokers are $29.2 \%, 5.6 \%$, and $65.2 \%$, respectively. The percentage of men and women daily smokers is $56.7 \%$ and $1.8 \%$, respectively. The percentage of men occasional smokers (10.3\%) is almost 13 times that of women occasional smokers ( $0.8 \%$ ). The percentage of women non-smokers ( $97.3 \%$ ) is almost thrice that of men non-smokers (33.0\%). Daily smoking is higher in all the age groups of 25 years and above as compared to the 15-24 years age group; however, occasional smoking shows no change for different age groups.

Among men, by age group, the highest percentage of daily smokers can be found in the 25-44 years and 45-64 years age groups ( $63.8 \%$ and $62.8 \%$, respectively). The $15-24$ years age group has the highest percentage of occasional smokers (12.9\%) while the remaining three age groups have similar percentages of occasional smokers (about 9\%).

Among men, by residence, the percentage of daily smokers in rural areas (62.3\%) is higher than that in urban areas (51.2\%). The distribution of occasional smokers is similar ( $10.4 \%$ urban, $10.2 \%$ rural). The percentage of men nonsmokers living in urban areas (38.4\%) is higher than among those living in rural areas (27.5\%).

Among men, the percentage of daily smokers is high for those with less than primary school (71.1\%) and primary school ( $62.8 \%$ ) education. There is no specific distribution pattern for occasional smokers based on educational level. The group with university education has the highest percentage of non-smokers (50.2\%) followed by high school (41.3\%), secondary school (37.7\%), primary school education (26.0\%) and less than primary school education (19.0\%).

By occupation, self-employed men have the highest prevalence of daily smoking (65.5\%), followed by those who were employed (60.1\%).

Table 4.5: Percentage distribution of adults $\geq 15$ years old, by tobacco smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Overall | 29.2 (27.6, 30.9) | 5.6 (4.8, 6.4) | 65.2 (63.6, 66.8) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 19.6 (17.1, 22.3) | 6.5 (5.0, 8.3) | 73.9 (71.1, 76.6) | 100 |
| 25-44 | 32.6 (30.6, 34.8) | 5.0 (4.2, 6.0) | 62.4 (60.3, 64.4) | 100 |
| 45-64 | 33.5 (30.5, 36.6) | 5.9 (4.8, 7.2) | 60.6 (57.6, 63.6) | 100 |
| 65+ | 26.1 (22.7, 29.9) | 5.0 (3.5, 7.2) | 68.9 (65.0, 72.5) | 100 |
| Residence |  |  |  |  |
| Urban | 26.3 (24.3, 28.4) | 5.7 (4.8, 6.8) | 68.1 (65.9, 70.2) | 100 |
| Rural | 32.2 (29.7, 34.8) | 5.5 (4.4, 6.8) | 62.3 (59.9, 64.7) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 32.7 (29.5, 36.0) | 5.3 (4.1, 6.8) | 62.0 (58.9, 65.1) |  |
| Primaryschool completed | 31.3 (29.0, 33.7) | $5.9(4.8,7.1)$ | 62.8 (60.4, 65.1) | 100 |
| Secondary school completed | 26.3 (23.8, 29.0) | 5.6 (4.2, 7.3) | 68.1 (65.4, 70.7) | 100 |
| High school completed | 28.3 (26.0, 30.7) | $5.4(4.4,6.7)$ | 66.3 (63.7, 68.7) | 100 |
| College or University + | 21.9 (18.9, 25.4) | 5.7 (3.8, 8.4) | 72.4 (68.1, 76.2) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 40.1 (37.1, 43.3) | 6.6 (5.4, 8.1) | 53.2 (50.3, 56.2) | 100 |
| Self-employed | 43.4 (40.2, 46.7) | 6.9 (5.7, 8.4) | 49.7 (46.2, 53.1) | 100 |
| Students | 7.5 (4.9, 11.2) | 6.8 (4.5, 10.1) | 85.7 (81.6, 89.1) | 100 |
| Home makers | 1.7 (1.1, 2.7) | 1.0 (0.5, 1.9) | 97.3 (95.9, 98.2) | 100 |
| Un-employed | 24.5 (20.5, 29.1) | 7.0 (5.0, 9.8) | 68.4 (63.8, 72.7) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

Table 4.5 (cont): Percentage distribution of adults $\geq 15$ years old, by tobacco smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Male | 56.7 (53.8, 59.6) | 10.3 (9.0, 11.8) | 33.0 (30.5, 35.6) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 38.9 (34.3, 43.6) | 12.9 (10.0, 16.4) | 48.3 (43.7, 52.9) | 100 |
| 25-44 | 63.8 (60.4, 67.0) | 9.5 (7.9, 11.4) | 26.7 (23.9, 29.8) | 100 |
| 45-64 | 62.8 (58.1, 67.2) | 9.6 (7.7, 12.0) | 27.6 (23.7, 31.9) | 100 |
| 65+ | 52.2 (45.8, 58.7) | 9.0 (6.0, 13.2) | 38.8 (32.9, 45.1) | 100 |
| Residence |  |  |  |  |
| Urban | 51.2 (47.5, 55.0) | 10.4 (8.7, 12.3) | 38.4 (35.0, 41.8) | 100 |
| Rural | 62.3 (57.8, 66.6) | 10.2 (8.2, 12.7) | 27.5 (24.0, 31.3) | 100 |
| Education Level |  |  |  |  |
| Less than primary school completed | 71.1 (65.7, 75.9) | 10.0 (7.3, 13.4) | 19.0 (15.1, 23.5) | 100 |
| Primaryschool completed | 62.8 (58.9, 66.5) | 11.3 (9.3, 13.6) | 26.0 (22.6, 29.7) | 100 |
| Secondary school completed | 51.4 (46.8, 55.9) | 10.9 (8.3, 14.2) | 37.7 (33.6, 42.0) | 100 |
| High school completed | 49.5 (45.9, 53.2) | 9.1 (7.3, 11.4) | 41.3 (38.0, 44.8) | 100 |
| College or University + | 39.6 (34.6, 44.8) | $10.2(6.8,15.0)$ | 50.2 (43.6, 56.8) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 60.1 (55.8, 64.2) | 9.7 (8.0, 11.8) | 30.2 (26.9, 33.7) | 100 |
| Self-employed | 65.5 (61.9, 69.0) | 10.2 (8.4, 12.2) | 24.3 (21.2, 27.7) | 100 |
| Students | 13.2 (8.9, 19.1) | 11.9 (7.9, 17.5) | 74.9 (68.6, 80.4) | 100 |
| Home makers | -- | -- | -- | -- |
| Un-employed | 43.4 (36.9, 50.1) | 12.0 (8.3, 17.0) | 44.6 (37.9, 51.5) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

Table 4.5 (cont): Percentage distribution of adults $\geq 15$ years old, by cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
| Percentage (95\% CI) |  |  |  |  |
| Female | 1.8 (1.4, 2.4) | 0.8 (0.5, 1.3) | 97.3 (96.5, 98.0) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 0.1 (0.0, 0.7) | 0.0 | 99.9 (99.3, 100.0 | 100 |
| 25-44 | $1.2(0.8,1.9)$ | 0.5 (0.2, 1.0) | 98.3 (97.4, 98.9) | 100 |
| 45-64 | 3.7 (2.4, 5.5) | 2.1 (1.3, 3.5) | 94.2 (91.9, 95.9) | 100 |
| 65+ | 5.0 (2.9, 8.4) | 1.8 (0.8, 3.7) | 93.3 (89.0, 95.9) | 100 |
| Residence |  |  |  |  |
| Urban | 1.4 (0.8, 2.2) | 1.0 (0.5, 1.9) | 97.7 (96.3, 98.6) | 100 |
| Rural | 2.3 (1.6, 3.2) | 0.7 (0.5, 1.2) | 97.0 (95.8, 97.8) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 4.1 (2.7, 6.0) | 1.8 (1.1, 2.7) | 94.2 (91.9, 95.8) | 100 |
| Primaryschool completed | 1.8 (1.1, 3.0) | 0.8 (0.4, 1.9) | 97.3 (95.8, 98.3) | 100 |
| Secondary school completed | 0.5 (0.2, 1.3) | 0.1 (0.0, 0.8) | 99.4 (98.5, 99.8) | 100 |
| High school completed | 0.4 (0.2, 1.2) | 0.6 (0.3, 1.4) | 99.0 (98.1, 99.5) | 100 |
| College or University + | 1.6 (0.6, 4.5) | 0.6 (0.1, 4.0) | 97.8 (94.6, 99.1) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 0.9 (0.5, 1.9) | 0.5 (0.2, 1.3) | 98.5 (97.3, 99.2) | 100 |
| Self-employed | 3.2 (2.1, 4.8) | 1.0 (0.6, 1.9) | 95.8 (93.9, 97.1) | 100 |
| Students | 0.0 | 0.0 | 100.0 | 100 |
| Home makers | 1.7 (1.1, 2.6) | 1.0 (0.5, 1.9) | 97.4 (96.0, 98.3) | 100 |
| Un-employed | 2.2 (1.1, 4.4) | 1.2 (0.4, 3.4) | 96.6 (93.9, 98.2) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

### 4.5.2. Frequency of white cigarette smoking

Table 4.5A presents the frequency of white cigarette smoking in three standard categories - "daily smokers", "occasional smokers" and "non-smokers". The percentage of adults aged 15 years and above who are daily white cigarette smokers, occasional white cigarette smokers and non-smokers of white cigarettes are $1.6 \%, 0.6 \%$ and $97.8 \%$, respectively. The percentage of daily white cigarette smokers is $3.1 \%$ among men and $0.1 \%$ among women. The percentage of occasional white cigarette smokers is $1.2 \%$ among men; $95.7 \%$ of men are non-smokers of white cigarettes. Among women, $98.9 \%$ are non-smokers of white cigarettes.

Among men, the prevalence of daily and occasional smoking does not differ by age or residence; however, daily smoking is more prevalent among the higher education group.

Among women, the numbers are small and hence comparision is difficult.

Table 4.5A: Percentage distribution of adults $\geq 15$ years old, by white cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | White Cigarette Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Overall | 1.6 (1.2, 2.2) | 0.6 (0.4, 0.9) | 97.8 (97.0, 98.4) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 1.2 (0.7, 2.1) | 0.6 (0.3, 1.2) | 98.1 (97.1, 98.8) | 100 |
| 25-44 | 2.3 (1.6, 3.2) | 0.7 (0.4, 1.1) | 97.0 (95.9, 97.9) | 100 |
| 45-64 | $0.7(0.3,1.4)$ | 0.5 (0.3, 1.1) | 98.8 (97.8, 99.3) | 100 |
| 65+ | 1.4 (0.6, 3.3) | 0.5 (0.1, 1.6) | 98.1 (96.2, 99.1) | 100 |
| Residence |  |  |  |  |
| Urban | 2.1 (1.4, 3.1) | 0.7 (0.4, 1.3) | 97.2 (95.7, 98.1) | 100 |
| Rural | 1.1 (0.7, 1.7) | 0.5 (0.3, 0.8) | 98.4 (97.7, 99.0) | 100 |
| Education Level |  |  |  |  |
| Less than primary school completed | 0.6 (0.3, 1.3) | 0.3 (0.1, 0.7) | 99.0 (98.3, 99.5) |  |
| Primary school completed | 0.9 (0.5, 1.7) | $0.4(0.2,0.8)$ | 98.7 (97.8, 99.2) | 100 |
| Secondary school completed | 1.7 (1.1, 2.8) | $0.4(0.2,0.9)$ | 97.9 (96.7, 98.7) | 100 |
| High school completed | 2.8 (2.1, 3.9) | 0.9 (0.5, 1.7) | 96.3 (94.9, 97.3) | 100 |
| College or University + | 2.7 (1.4, 5.0) | 2.1 (0.9, 4.5) | 95.3 (91.9, 97.3) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 2.2 (1.4, 3.3) | 0.9 (0.5, 1.5) | 97.0 (95.6, 97.9) | 100 |
| Self-employed | 2.1 (1.4, 3.1) | 0.8 (0.5, 1.3) | 97.1 (95.9, 98.0) | 100 |
| Students | 0.8 (0.3, 2.1) | 0.6 (0.2, 2.0) | 98.5 (97.0, 99.3) | 100 |
| Home makers | 0.1 (0.0, 1.0) | 0.0 | 99.9 (99.0, 100.0) | 100 |
| Un-employed | 1.8 (0.9, 3.6) | 0.7 (0.2, 2.2) | 97.5 (95.5, 98.6) | 100 |

[^2]Table 4.5A (cont): Percentage distribution of adults $\geq 15$ years old, by white cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | White Cigarette Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Male | 3.1 (2.2, 4.2) | $1.2(0.8,1.8)$ | 95.7 (94.2, 96.8) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 2.5 (1.5, 4.1) | 1.2 (0.6, 2.4) | 96.3 (94.3, 97.6) | 100 |
| 25-44 | 4.4 (3.2, 6.2) | 1.4 (0.8, 2.3) | 94.2 (92.0, 95.8) | 100 |
| 45-64 | 1.3 (0.6, 2.8) | 0.9 (0.4, 2.0) | 97.8 (95.9, 98.8) | 100 |
| 65+ | 2.2 (0.9, 5.2) | 1.0 (0.3, 3.5) | 96.7 (93.6, 98.4) | 100 |
| Residence |  |  |  |  |
| Urban | 4.0 (2.7, 6.0) | 1.5 (0.8, 2.6) | 94.5 (91.8, 96.4) | 100 |
| Rural | 2.1 (1.3, 3.4) | 0.9 (0.5, 1.5) | 96.9 (95.4, 98.0) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 1.2 (0.6, 2.3) | 0.7 (0.3, 1.7) | 98.1 (96.7, 98.9) |  |
| Primaryschool completed | 1.9 (1.0, 3.6) | $0.8(0.4,1.7)$ | 97.3 (95.5, 98.4) | 100 |
| Secondary school completed | 3.4 (2.1, 5.6) | 0.7 (0.3, 1.8) | 95.9 (93.4, 97.4) | 100 |
| High school completed | 5.0 (3.6, 6.8) | 1.6 (0.9, 3.0) | 93.4 (91.0, 95.2) | 100 |
| College or University + | $4.5(2.3,8.7)$ | 3.9 (1.8, 8.1) | 91.6 (85.7, 95.2) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 3.3 (2.2, 4.9) | 1.3 (0.7, 2.3) | 95.5 (93.4, 96.9) | 100 |
| Self-employed | 3.2 (2.2, 4.7) | 1.2 (0.7, 2.0) | 95.6 (93.8, 96.9) | 100 |
| Students | 1.4 (0.6, 3.6) | 1.1 (0.4, 3.5) | 97.4 (94.8, 98.8) | 100 |
| Home makers | -- | -- | -- | -- |
| Un-employed | 3.4 (1.7, 6.5) | 1.2 (0.4, 4.0) | 95.4 (91.8, 97.5) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

Table 4.5A (cont): Percentage distribution of adults $\geq 15$ years old, by white cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | White Cigarette Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Female | 0.1 (0.0, 0.4) | 0.0 (0.0, 0.1) | 99.9 (99.6, 100.0) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 0.0 | 0.0 | 100.0 | 100 |
| 25-44 | 0.1 (0.0, 0.5) | 0.0 | 99.9 (99.5, 100.0) | 100 |
| 45-64 | 0.0 | 0.1 (0.0, 0.5) | 99.9 (99.5, 100.0) | 100 |
| 65+ | 0.8 (0.1, 5.5) | 0.0 | 99.2 (94.5, 99.9) | 100 |
| Residence |  |  |  |  |
| Urban | 0.2 (0.0, 0.8) | 0.0 | 99.8 (99.2, 100.0) | 100 |
| Rural | 0.0 | 0.1 (0.0, 0.2) | 99.9 (99.8, 100.0) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 0.2 (0.0, 1.7) | 0.0 | 99.8 (98.3, 100.0) |  |
| Primary school completed | 0.0 | 0.1 (0.0, 0.4) | 99.9 (99.6, 100.0) | 100 |
| Secondaryschool completed | 0.0 | 0.0 | 100.0 | 100 |
| High school completed | 0.0 | 0.0 | 100.0 | 100 |
| College or University + | 0.5 (0.1, 3.5) | 0.0 | 99.5 (96.5, 99.9) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 0.0 | 0.1 (0.0, 0.6) | 99.9 (99.4, 100.0) | 100 |
| Self-employed | 0.1 (0.0, 0.9) | 0.0 (0.0, 0.4) | 99.8 (99.2, 100.0) | 100 |
| Students | 0.0 | 0.0 | 100.0 | 100 |
| Home makers | 0.1 (0.0, 1.0) | 0.0 | 99.9 (99.0, 100.0) | 100 |
| Un-employed | 0.0 | 0.0 | 100.0 | 100 |

[^3]
### 4.5.3. Frequency of hand-rolled cigarette smoking

Table 4.5B presents the frequency of hand-rolled cigarette smoking by three standard categories - "daily smokers", "occasional smokers" and "non-smokers". The percentage of adults aged 15 years and above who are daily handrolled cigarette smokers, occasional hand-rolled cigarette smokers and non-smokers of hand-rolled cigarettes is $3.8 \%, 1.0 \%$ and $95.3 \%$, respectively. The percentage of daily hand-rolled cigarette smokers among men is $7.2 \%$ and among women it is $0.4 \%$. The percentage of occasional hand-rolled cigarette smokers among men is $1.8 \%$; $91.0 \%$ of men are non-smokers of hand-rolled cigarettes. Among women, $0.1 \%$ identified themselves as occasional handrolled cigarette smokers and 99.5\% are non-smokers.

Among men, the prevalence of daily hand-rolled cigarette smoking increases with age; it is higher in rural (10.7\%) areas as compared to urban areas (3.7\%). Daily hand-rolled cigarette smoking among men is higher among less educated people (less than primary, primary) as compared to more educated people(high school, college or university). Occasional hand-rolled cigarette smoking among men does not differ by age, residence or education.

Among women, the numbers are small and hence a comparision is difficult.

Table 4.5B: Percentage distribution of adults $\geq 15$ years old, by hand-rolled cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Hand-rolled Cigarette Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Overall | 3.8 (2.8, 5.0) | 1.0 (0.7, 1.4) | 95.3 (93.7, 96.4) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 0.8 (0.4, 1.7) | 0.3 (0.1, 1.1) | 98.9 (97.8, 99.4) | 100 |
| 25-44 | 2.8 (1.8, 4.2) | 0.9 (0.5, 1.8) | 96.3 (94.4, 97.6) | 100 |
| 45-64 | 6.6 (4.9, 8.8) | 1.3 (0.9, 2.0) | 92.1 (89.7, 94.0) | 100 |
| 65+ | 10.8 (8.0, 14.5) | 2.3 (1.4, 3.9) | 86.8 (83.1, 89.8) | 100 |
| Residence |  |  |  |  |
| Urban | 1.9 (1.1, 3.2) | 0.5 (0.3, 1.0) | 97.6 (96.1, 98.5) | 100 |
| Rural | 5.7 (4.0, 8.0) | 1.4 (0.9, 2.3) | 92.9 (90.0, 95.0) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 9.3 (6.9, 12.4) | 1.5 (1.0, 2.3) | 89.2 (85.9, 91.8) |  |
| Primary school completed | $4.7(3.3,6.7)$ | 1.3 (0.8, 2.1) | 94.0 (91.7, 95.7) | 100 |
| Secondary school completed | 1.0 (0.6, 1.9) | 0.6 (0.2, 1.5) | 98.4 (97.3, 99.1) | 100 |
| High school completed | 1.0 (0.6, 1.7) | 0.4 (0.1, 1.4) | 98.6 (97.6, 99.2) | 100 |
| College or University + | 0.1 (0.0, 1.0) | 1.2 (0.4, 3.0) | 98.7 (96.7, 99.5) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 4.6 (2.9, 7.2) | 1.0 (0.6, 1.8) | 94.4 (91.5, 96.3) | 100 |
| Self-employed | 6.3 (4.6, 8.5) | 1.6 (1.1, 2.4) | 92.1 (89.5, 94.1) | 100 |
| Students | 0.1 (0.0, 1.0) | 0.1 (0.0, 1.0) | 99.7 (98.0, 100.0) | 100 |
| Home makers | 0.3 (0.1, 1.0) | 0.1 (0.0, 0.4) | 99.6 (99.0, 99.8) | 100 |
| Un-employed | 2.8 (1.8, 4.5) | $1.2(0.4,3.3)$ | 96.0 (93.6, 97.5) | 100 |

[^4]Table 4.5B (cont): Percentage distribution of adults $\geq 15$ years old, by hand-rolled cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Hand-rolled Cigarette Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Male | 7.2 (5.3, 9.6) | $1.8(1.2,2.7)$ | 91.0 (88.0, 93.3) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 1.6 (0.7, 3.3) | $0.7(0.2,2.1)$ | 97.8 (95.6, 98.9) | 100 |
| 25-44 | 5.3 (3.5, 8.0) | 1.8 (0.9, 3.5) | 92.9 (89.3, 95.4) | 100 |
| 45-64 | 12.2 (9.1, 16.3) | 2.4 (1.6, 3.7) | 85.3 (81.0, 88.8) | 100 |
| 65+ | 22.9 (16.8, 30.4) | 4.3 (2.3, 7.9) | 72.8 (65.3, 79.2) | 100 |
| Residence |  |  |  |  |
| Urban | 3.7 (2.1, 6.3) | 0.9 (0.5, 1.9) | 95.4 (92.5, 97.2) | 100 |
| Rural | 10.7 (7.5, 15.2) | 2.7 (1.6, 4.4) | 86.5 (81.1, 90.6) | 100 |
| Education Level |  |  |  |  |
| Less than primary school completed | 20.0 (14.5, 26.9) | 3.2 (2.0, 5.1) | 76.8 (69.6, 82.7) |  |
| Primaryschool completed | 9.5 (6.6, 13.4) | 2.6 (1.6, 4.2) | 87.9 (83.4, 91.3) | 100 |
| Secondary school completed | 2.0 (1.1, 3.7) | 1.1 (0.4, 2.9) | 96.9 (94.7, 98.2) | 100 |
| High school completed | 1.8 (1.0, 3.0) | $0.7(0.2,2.4)$ | 97.6 (95.8, 98.6) | 100 |
| College or University + | 0.3 (0.0, 1.9) | $1.7(0.6,5.0)$ | 98.0 (94.5, 99.3) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 6.8 (4.3, 10.7) | 1.4 (0.8, 2.6) | 91.8 (87.6, 94.6) | 100 |
| Self-employed | 9.4 (6.9, 12.7) | $2.4(1.6,3.6)$ | 88.2 (84.2, 91.2) | 100 |
| Students | 0.2 (0.0, 1.7) | 0.2 (0.0, 1.7) | 99.5 (96.6, 99.9) | 100 |
| Home makers | -- | -- | -- | -- |
| Un-employed | 4.6 (2.7, 7.8) | 2.1 (0.7, 6.1) | 93.2 (88.8, 96.0) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

Table 4.5B (cont): Percentage distribution of adults $\geq 15$ years old, by hand-rolled cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Hand-rolled Cigarette Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Female | 0.4 (0.2, 0.7) | 0.1 (0.1, 0.3) | 99.5 (99.2, 99.7) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 0.0 | 0.0 | 100.0 | 100 |
| 25-44 | 0.2 (0.0, 0.9) | 0.1 (0.0, 0.5) | 99.7 (99.0, 99.9) | 100 |
| 45-64 | 0.8 (0.4, 1.6) | 0.2 (0.0, 0.5) | 99.1 (98.2, 99.5) | 100 |
| 65+ | 1.1 (0.4, 2.8) | 0.7 (0.2, 2.1) | 98.2 (95.7, 99.3) | 100 |
| Residence |  |  |  |  |
| Urban | 0.1 (0.0, 0.4) | 0.1 (0.0, 0.4) | 99.8 (99.4, 100.0) | 100 |
| Rural | 0.6 (0.3, 1.3) | 0.1 (0.1, 0.4) | 99.2 (98.5, 99.6) | 100 |
| Education Level |  |  |  |  |
| Less than primary school completed | 1.3 (0.6, 2.5) | 0.2 (0.1, 0.6) | 98.5 (97.1, 99.2) | 100 |
| Primary school completed | 0.2 (0.0, 0.7) | 0.1 (0.0, 0.5) | 99.7 (99.2, 99.9) | 100 |
| Secondary school completed | 0.0 | 0.0 | 100.0 | 100 |
| High school completed | 0.0 | 0.0 | 100.0 | 100 |
| College or University + | 0.0 | 0.5 (0.1, 3.5) | 99.5 (96.5, 99.9) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 0.2 (0.1, 1.0) | 0.2 (0.1, 0.6) | 99.6 (98.9, 99.8) | 100 |
| Self-employed | 0.6 (0.3, 1.4) | 0.1 (0.0, 0.9) | 99.3 (98.4, 99.7) | 100 |
| Students | 0.0 | 0.0 | 100.0 | 100 |
| Home makers | 0.3 (0.1, 0.9) | 0.1 (0.0, 0.4) | 99.6 (99.0, 99.8) | 100 |
| Un-employed | 0.7 (0.2, 2.9) | 0.1 (0.0, 0.7) | 99.2 (97.2, 99.8) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

### 4.5.4. Frequency of kretek smoking

Table 4.5C presents the frequency of kretek smoking by three standard categories - "daily smokers", "occasional smokers" and "non-smokers". The percentage of adults aged 15 years and above who are daily kretek smokers, occasional kretek smokers and non-smokers of kretek is $25.9 \%, 5.7 \%$ and $68.5 \%$, respectively. The percentage of daily kretek smokers among men is $50.3 \%$ and among women it is $1.5 \%$. The percentage of occasional kretek smokers among men is $10.6 \%$ and $39.1 \%$ of men are non-smokers of kretek. Among women, $0.8 \%$ identified themselves as occasional kretek smokers and $97.7 \%$ are non-smokers of kretek.

Among men, the 25-44 years age group has the highest percentage of daily kretek smokers (57.9\%), followed by the 45-64 years age group (53.9\%). Among men, the percentage of daily kretek smokers in rural areas (55.0\%) is higher than that in urban areas (45.6\%). Daily kretek smoking is more prevalent among less educated people (less than primary, primary) as compared to people with higher educational levels (high school and college or university educated). Among men, occasional kretek smoking does not differ by age, residence or education.

Among women, the numbers are small and therefore a comparision is difficult.

Table 4.5C: Percentage distribution of adults $\geq 15$ years old, by kretek cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Kretek Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
|  | Percentage (95\% CI) |  |  |  |
| Overall | 25.9 (24.2, 27.6) | 5.7 (4.9, 6.6) | 68.5 (66.7, 70.2) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 18.9 (16.5, 21.5) | 6.3 (4.9, 8.1) | 74.8 (72.0, 77.5) | 100 |
| 25-44 | 29.6 (27.7, 31.7) | 5.0 (4.1, 6.0) | 65.4 (63.3, 67.4) | 100 |
| 45-64 | 28.8 (25.9, 31.9) | 6.4 (5.2, 7.8) | $64.8(61.8,67.8)$ | 100 |
| 65+ | 15.8 (12.8, 19.3) | 5.7 (4.1, 7.8) | 78.5 (74.7, 81.9) | 100 |
| Residence |  |  |  |  |
| Urban | 23.3 (21.3, 25.5) | 5.3 (4.3, 6.5) | 71.4 (68.9, 73.8) | 100 |
| Rural | 28.4 (25.8, 31.2) | 6.1 (4.9, 7.5) | 65.5 (63.0, 67.9) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 26.2 (22.7, 30.1) | 6.3 (4.9, 7.9) | 67.5 (63.8, 71.0) |  |
| Primary school completed | 28.1 (25.5, 30.8) | $5.9(4.8,7.2)$ | 66.1 (63.3, 68.7) | 100 |
| Secondary school completed | 24.8 (22.2, 27.5) | 5.4 (4.1, 7.2) | 69.8 (66.9, 72.5) | 100 |
| High school completed | 25.6 (23.3, 28.1) | $5.2(4.2,6.5)$ | 69.1 (66.4, 71.7) | 100 |
| College or University + | 20.2 (17.2, 23.6) | 5.4 (3.6, 7.8) | 74.4 (70.2, 78.2) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 36.4 (33.4, 39.5) | 6.5 (5.3, 8.0) | 57.1 (54.1, 60.0) | 100 |
| Self-employed | 37.7 (34.5, 41.1) | 7.5 (6.1, 9.1) | $54.8(51.3,58.3)$ | 100 |
| Students | $7.0(4.6,10.6)$ | 6.7 (4.5, 10.0) | 86.3 (82.0, 89.6) | 100 |
| Home makers | 1.4 (0.9, 2.2) | 0.9 (0.4, 1.8) | 97.6 (96.3, 98.5) | 100 |
| Un-employed | 21.3 (17.4, 25.9) | 6.6 (4.6, 9.4) | 72.1 (67.4, 76.3) | 100 |

${ }^{1}$ Occasional refers to less than daily use.
-- Indicatorestimate based on less than 25 un-weighted cases and has been suppressed.

Table 4.5C (cont): Percentage distribution of adults $\geq 15$ years old, by kretek cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
| Percentage (95\% CI) |  |  |  |  |
| Male | 50.3 (47.2, 53.4) | 10.6 (9.1, 12.2) | 39.1 (36.2, 42.1) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 37.4 (33.0, 42.1) | 12.5 (9.8, 15.9) | 50.0 (45.3, 54.8) | 100 |
| 25-44 | 57.9 (54.4, 61.4) | 9.4 (7.8, 11.4) | 32.6 (29.4, 36.0) | 100 |
| 45-64 | 53.9 (49.0, 58.7) | 10.7 (8.6, 13.3) | 35.4 (31.2, 39.9) | 100 |
| 65+ | 31.5 (25.6, 38.0) | 11.0 (7.8, 15.3) | 57.5 (50.9, 63.9) | 100 |
| Residence |  |  |  |  |
| Urban | 45.6 (41.7, 49.6) | 9.6 (7.9, 11.7) | 44.7 (40.7, 48.9) | 100 |
| Rural | 55.0 (50.2, 59.7) | 11.6 (9.3, 14.3) | 33.4 (29.5, 37.6) | 100 |
| Education Level |  |  |  |  |
| Less than primary school completed | 57.3 (50.8, 63.5) | 12.6 (9.6, 16.3) | 30.1 (24.9, 36.0) | 100 |
| Primaryschool completed | 56.1 (51.3, 60.7) | 11.3 (9.1, 13.8) | 32.7 (28.2, 37.4) | 100 |
| Secondaryschool completed | 48.3 (43.8, 52.8) | 10.6 (8.0, 13.9) | 41.1 (36.7, 45.6) | 100 |
| High school completed | 44.9 (41.1, 48.7) | 8.8 (7.0, 10.9) | 46.4 (42.6, 50.2) | 100 |
| College or University + | 36.8 (31.8, 42.0) | 9.5 (6.4, 14.0) | 53.7 (46.9, 60.3) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | 54.5 (50.0, 58.8) | 9.6 (7.9, 11.7) | 35.9 (32.2, 39.8) | 100 |
| Self-employed | 57.0 (53.0, 60.9) | 11.0 (9.1, 13.4) | 32.0 (28.2, 36.0) | 100 |
| Students | 12.3 (8.2, 18.0) | 11.8 (7.9, 17.2) | 75.9 (69.5, 81.3) | 100 |
| Home makers | -- | -- | -- | -- |
| Un-employed | 38.1 (31.6, 45.0) | 11.3 (7.7, 16.4) | 50.6 (43.6, 57.5) | 100 |

[^5]Table 4.5C (cont): Percentage distribution of adults $\geq 15$ years old, by kretek cigarette smoking frequency, gender and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking Frequency |  |  | Total |
| :---: | :---: | :---: | :---: | :---: |
|  | Daily | Occasional ${ }^{1}$ | Non-smoker |  |
| Percentage (95\% CI) |  |  |  |  |
| Female | 1.5 (1.1, 2.1) | 0.8 (0.5, 1.3) | 97.7 (96.9, 98.3) | 100 |
| Age (years) |  |  |  |  |
| 15-24 | 0.1 (0.0, 0.7) | 0.0 | 99.9 (99.3, 100.0) | 100 |
| 25-44 | 1.1 (0.7, 1.7) | 0.5 (0.2, 1.0) | 98.4 (97.6, 99.0) | 100 |
| 45-64 | 3.3 (2.2, 5.0) | 2.0 (1.1, 3.3) | 94.8 (92.5, 96.3) | 100 |
| 65+ | 3.1 (1.6, 5.9) | 1.4 (0.6, 3.3) | 95.5 (91.8, 97.6) | 100 |
| Residence |  |  |  |  |
| Urban | 1.1 (0.6, 1.9) | 0.9 (0.4, 1.9) | 98.0 (96.6, 98.8) | 100 |
| Rural | 1.9 (1.3, 2.8) | 0.6 (0.4, 1.1) | 97.4 (96.4, 98.2) | 100 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 3.0 (2.0, 4.7) | 1.5 (0.9, 2.5) | 95.4 (93.4, 96.8) | 100 |
| Primary school completed | 1.8 (1.1, 3.0) | $0.8(0.3,1.8)$ | 97.4 (95.8, 98.4) | 100 |
| Secondary school completed | 0.5 (0.2, 1.3) | 0.1 (0.0, 0.8) | 99.4 (98.5, 99.8) | 100 |
| High school completed | 0.4 (0.2, 1.2) | 0.6 (0.3, 1.4) | 99.0 (98.1, 99.5) | 100 |
| College or University + | 1.1 (0.3, 3.9) | 0.6 (0.1, 4.0) | 98.3 (95.2, 99.4) | 100 |
| Occupation/Work status |  |  |  |  |
| Employed | $0.9(0.5,1.9)$ | $0.4(0.1,1.3)$ | 98.6 (97.5, 99.3) | 100 |
| Self-employed | 2.7 (1.7, 4.2) | 1.0 (0.5, 1.8) | 96.3 (94.5, 97.5) | 100 |
| Students | 0.0 | 0.0 | 100.0 | 100 |
| Home makers | 1.4 (0.9, 2.2) | 0.9 (0.4, 1.9) | 97.7 (96.4, 98.6) | 100 |
| Un-employed | 1.5 (0.7, 3.4) | 1.1 (0.3, 3.4) | 97.4 (94.9, 98.7) | 100 |

[^6]
### 4.6. Average number of any cigarette smoked per day

Table 4.6 gives the average number and percentage distribution of any type of cigarette smoked per day among daily smokers. The overall figure is 12.8 sticks per day. About $34 \%$ of daily smokers smoke 10-14 sticks per day, and only $6.3 \%$ smoke 25 or more sticks per day.

For men, the overall average is 13.0 sticks per day and for women it is 8.1 . Among men smokers, the highest proportion smoke $10-14$ sticks ( $34.7 \%$ ), while among women smokers it is $5-9$ sticks ( $36.6 \%$ ). There are no women smokers who smoke 25 or more sticks per day, as against $6.5 \%$ among men smokers.

The overall average numbers of cigarettes smoked per day is similar for all age groups, ranging between 11.4 and 13.2 sticks. In the adolescent age group (15-24 years), the highest proportion of average cigarettes smoked per day ( $26.8 \%$ ) is $15-24$ sticks per day.

The average number of cigarettes smoked per day in rural areas is 13.3 as against 12.3 sticks in urban areas. The highest prevalence ( $34.7 \%$ ) in both urban and rural areas is $10-14$ sticks per day and the lowest ( $4.4 \%$ ) is 25 or more sticks per day.

Based on the educational level, those with college or university-level education smoke the most every day (13.7 sticks). Among them, $46.2 \%$ smoke $15-24$ sticks per day. The highest average number of cigarettes smoked daily for all other educational levels is $10-14$ sticks.

By occupation, the highest average number of cigarettes smoked per day is among those who are self-employed ( 13.5 sticks) and the lowest average number is smoked by home-makers ( 7.6 sticks). More than half of the smokers in the home-maker group ( $58.7 \%$ ) smoke 5-9 cigarettes per day and none smoke 25 or more per day. The selfemployed group has the highest percentage of smokers who smoke 25 or more cigarettes daily ( $8.2 \%$ ).

### 4.6.1. Average number and distribution of white cigarettes smoked per day

Table 4.6A shows the daily average number and proportion of white cigarettes smoked by daily white cigarette smokers by gender and selected demographic characteristics. Overall, on average, white cigarette smokers smoke 14.7 sticks per day, of whom $50.1 \%$ smoke $15-24$ sticks per day and $5.2 \%$ smoke 25 or more sticks per day. Men white cigarette smokers smoke 15.0 sticks per day; about half of them ( $51.6 \%$ ) smoke $15-24$ sticks per day and $5.1 \%$ smoke less than 5 sticks per day. A larger proportion smoke white cigarettes daily in urban areas ( 15 sticks) than in rural areas ( 14.1 sticks). Both urban and rural white cigarette smokers comprise the largest proportion in the group of daily smokers; an average of 15-24 sticks per day. The least proportion of average number of cigarettes smoked among the urban population is less than 5 sticks per day and among the rural population it is more than 25 sticks per day.

### 4.6.2. Average number and distribution of hand-rolled cigarettes smoked per day

Table 4.6B gives the daily average number and proportion of hand-rolled cigarettes smoked by gender and selected demograpghic characteristics. Overall, hand-rolled cigarettes smokers smoke 11.8 sticks per day; $18.4 \%$ smoke less than 5 sticks per day, $27.5 \%$ smoke $5-9$ sticks per day, $27.2 \%$ smoke $10-14$ sticks per day, $17.1 \%$ smoke $15-24$ sticks per day and $9.8 \%$ smoke 25 or more sticks per day. Men hand-rolled cigarette smokers smoke 12.1 sticks per day, with a similar distribution pattern as the overall figures. Overall, more hand-rolled cigarettes are smoked in rural areas ( 12 sticks per day) than in urban areas ( 11.4 sticks per day). The largest proportion of average number of handrolled cigarettes smoked among the urban population is $10-14$ sticks per day and that among the rural population is 5-9 sticks per day.

### 4.6.3. Average number and distribution of kretek cigarettes smoked per day

Table 4.6C gives the average number and distribution of kretek cigarettes smoked by daily smokers by gender and selected demographic characteristics. The overall number of kretek cigarettes smoked per day among daily smokers is 11.8 sticks. Overall, $36.2 \%$ of daily smokers of kretek cigarettes smoke $10-14$ cigarettes per day; $16.1 \%$ smoke less than 5 cigarettes per day, $19.3 \%$ smoke $5-9$ cigarettes per day, $24.8 \%$ smoke $15-24$ cigarettes per day and $3.6 \%$ smoke 25 or more cigarettes per day.
The number of kretek cigarettes smoked is 11.9 per day for men and 7.7 per day for women. The pattern of distribution of kretek cigarettes smoked per day among men kretek smokers is similar to that in the overall population. However, among women kretek smokers, $36.5 \%$ smoke less than 5 sticks per day, $32.9 \%$ smoke 5-9 sticks per day, $18.8 \%$ smoke $10-14$ sticks per day, $11.8 \%$ smoke $15-24$ sticks per day and none smoke 25 or more cigarettes per day.

Overall, those in the age group of 25-44 years smoke the most average number of kretek cigarettes per day (12.1 sticks), followed by the $45-64$ years age group ( 11.8 sticks), $15-24$ years age group ( 10.9 sticks) and the $65+$ years age group (10.4 sticks).

Overall, kretek smokers in rural areas smoke more (12 sticks per day) than those in urban areas ( 11.5 sticks per day). The distribution of kretek cigarettes smoked by both urban and rural groups is the maximum in the 10-14 sticks per day category and the minimum is in the 25 or more sticks per day category.

Based on the educational level, the most kretek cigarettes smoked is by the college or university+ group (12.6 sticks per day). The second highest is by the high school graduate group (12 sticks per day), followed by primary school graduates (11.8 sticks per day), secondary school graduates (11.5 sticks per day) and less than primary school
completed (11.5 sticks per day). While the largest number of kretek cigarettes smoked in the college or university+ group is $15-24$ sticks per day (39.2\%), that in the all other groups is $10-14$ sticks per day. The smallest proportion of kretek cigarette smokers in all educational groups smoked 25 or more sticks per day.

Based on occupation, the most kretek cigarettes smoked overall is among the self-employed ( 12.2 sticks) followed by the employed group (11.7 sticks per day), students ( 10.6 sticks per day), unemployed ( 10.3 sticks per day) and homemakers ( 7.3 sticks per day). Among all groups, the smallest proportion smoke 25 or more sticks per day. While $4.4 \%$ of self-employed kretek smokers, $3.1 \%$ of employed and $2.6 \%$ of unemployed smokers smoke 25 or more sticks per day, there are no students and home-makers in this group.
Table 4.6: Average number and percentage distribution of cigarettes smoked perday among daily cigarette smokers $\geq 15$ years old, by gender and select

| Demographic Characteristics | Average number of cigarettes smoked per day ${ }^{1}$ | Distribution of number of cigarettes smoked on average per day ${ }^{1}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | <5 |  | 5-9 | 10-14 |  | 15-24 |  | $\geq 25$ | Total |
|  | Mean (95\% CI) | Percentage(95\% CI) |  |  |  |  |  |  |  |  |  |
| Overall | 12.8 (12.2, 13.5) | 13.2 | (10.5, 16.5) | 19.6 | (17.0, 22.3) | 34.2 (30.6, 38.0) | 26.8 | (23.6, 30.2) |  | (4.9, 8.0) | 100 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |
| Male | 13.0 (12.3, 13.6) |  | (9.9, 15.9) | 19.0 | (16.5, 21.8) | 34.7 (31.0, 38.5) |  | (24.0, 30.8) |  | (5.1, 8.2) | 100 |
| Female | 8.1 (6.5, 9.6) | 31.1 | (20.7, 43.7) | 36.6 | (25.5, 49.3) | 20.0 (11.3, 32.9) | 12.3 | (6.2, 23.1) | 0.0 |  | 100 |
| Age (years) |  |  |  |  |  |  |  |  |  |  |  |
| 15-24 | 12.0 (10.3, 13.6) |  | (14.2, 26.5) | 24.9 | (19.0, 31.8) | 23.3 (17.6, 30.0) |  | (21.3, 33.1) |  | $(2.8,10.3)$ | 100 |
| 25-44 | 13.2 (12.5, 14.0) | 10.5 | (8.0, 13.8) | 18.0 | (14.9, 21.5) | 36.3 (31.5, 41.3) | 28.8 | (24.9, 33.2) |  | $(4.6,8.7)$ | 100 |
| 45-64 | 12.9 (11.9, 13.9) | 13.0 | (9.7, 17.4) | 18.9 | (15.5, 22.8) | 36.9 (32.2, 41.8) | 24.3 | (19.9, 29.3) |  | $(4.7,10.0)$ | 100 |
| 65+ | 11.4 (10.0, 12.8) | 18.4 | (12.4, 26.4) | 21.4 | (15.8, 28.3) | 34.5 (27.7, 42.1) |  | $(14.3,29.6)$ |  | $(2.3,9.7)$ | 100 |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | 12.3 (11.5, 13.0) | 14.0 | (10.3, 18.9) | 21.0 | (17.5, 25.0) | 34.7 (30.2, 39.4) |  | (22.0, 30.1) |  | (3.0, 6.6) | 100 |
| Rural | 13.3 (12.3, 14.3) | 12.5 | (8.9, 17.2) | 18.3 | (14.9, 22.4) | 33.9 (28.5, 39.6) | 27.5 | (22.8, 32.8) |  | $(5.8,10.4)$ | 100 |
| Education Level |  |  |  |  |  |  |  |  |  |  |  |
| Less than primary school completed | 12.9 (11.9, 13.9) |  | (11.3, 19.3) | 18.3 | (14.9, 22.3) | 33.2 (28.7, 37.9) |  | (22.0, 32.2) |  | $(4.4,10.4)$ | 100 |
| Primary school completed | 13.0 (11.9, 14.2) | 13.4 | (9.2, 19.1) | 19.2 | (15.0, 24.4) | 38.1 (32.3, 44.3) |  | (17.8, 26.8) |  | (5.1, 10.4) | 100 |
| Secondary school completed | 12.2 (11.2, 13.2) | 12.9 | (8.9, 18.3) | 23.6 | (18.8, 29.2) | 32.0 (26.4, 38.1) | 25.9 | (21.1, 31.4) |  | $(3.5,8.7)$ | 100 |
| High school completed | 12.9 (12.0, 13.7) |  | (9.7, 18.0) | 18.2 | (14.2, 23.2) | 33.5 (28.2, 39.2) |  | (24.0, 35.2) |  | $(3.8,8.5)$ | 100 |
| College or University + | 13.7 (12.6, 14.7) |  | $(1.8,11.5)$ | 17.8 | (11.9, 25.7) | 28.8 (21.3, 37.7) | 46.2 | (36.7, 55.9) |  | (0.6, 9.2) | 100 |
| Occupation/Work status |  |  |  |  |  |  |  |  |  |  |  |
| Employed | 12.6 (11.8, 13.3) | 11.3 | (8.1, 15.4) | 21.4 | $(17.6,25.7)$ | 34.9 (30.8, 39.3) | 27.8 | (24.2, 31.7) |  | (3.4, 6.4) | 100 |
| Self-employed | 13.5 (12.5, 14.4) | 13.3 | (9.7, 18.0) | 15.9 | (13.0, 19.2) | 35.5 (30.4, 41.1) | 27.1 | (22.7, 32.1) |  | (6.1, 10.8) | 100 |
| Students | 11.3 (9.3, 13.2) | 14.8 | (6.1, 31.6) | 25.1 | (13.0, 42.9) | 29.6 (12.6, 55.1) | 27.2 | (14.0, 46.2) |  | (0.5, 19.5) | 100 |
| Home makers | 7.6 (6.2, 9.0) | 18.1 | (9.3, 32.2) | 58.7 | (42.5, 73.2) | 17.7 (8.7, 32.7) |  | (1.4, 19.7) | 0.0 |  | 100 |
| Un-employed | 11.0 (9.1, 13.0) | 21.7 | (15.1, 30.1) | 28.2 | (20.3, 37.7) | 24.4 (17.0, 33.8) | 22.3 | (14.3, 33.1) |  | $(1.3,8.8)$ | 100 |

${ }^{1}$ Among daily cigarette smokers. Cigarettes include white cigarette, hand-rolled and kretek cigarettes.
Table 4.6A: Average number and percentage distribution of white cigarettes smoked per day among daily white cigarette smokers $\geq 15$ years old, by gender and selected demographic characteristics - GATS Indonesia, 2011

| Demographic Characteristics | Average number of white cigarettes smoked per day ${ }^{1}$ | Distribution of number of white cigarettes smoked on average per day ${ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | <5 | 5-9 | 10-14 | 15-24 | $\geq 25$ | Total |
|  | Mean (95\% CI) | Percentage(95\% CI) |  |  |  |  |  |
| Overall | 14.7 (12.9, 16.5) | 6.0 (3.1, 11.2) | 23.7 (16.1, 33.4) | 15.1 (9.1, 24.0) | 50.1 (39.3, 60.8) | $5.2(2.0,12.7)$ | 100 |
| Gender |  |  |  |  |  |  |  |
| Male | 15.0 (13.1, 16.8) | 5.1 (2.6, 9.9) | 22.4 (14.8, 32.5) | 15.5 (9.4, 24.6) | 51.6 (40.8, 62.3) | 5.4 (2.1, 13.3) | 100 |
| Female | -- | -- | -- | -- | -- | -- | -- |
| Age (years) |  |  |  |  |  |  |  |
| 15-24 | -- | -- | -- | -- | -- | -- | -- |
| 25-44 | 15.1 (12.7, 17.5) | 7.1 (3.1, 15.3) | 22.5 (14.0, 34.1) | 12.5 (5.8, 25.1) | 51.3 (38.7, 63.7) | 6.6 (2.4, 16.7) | 100 |
| 45-64 | -- | -- | -- | -- | 51.3 (38.7, 63.7 ) | , | -- |
| 65+ | -- | -- | -- | -- | -- | -- | -- |
| Residence |  |  |  |  |  |  |  |
| Urban | 15.0 (12.7, 17.3) | 6.0 (2.9, 11.7) | 24.1 (16.2, 34.2) | 18.4 (10.3, 30.5) | 44.7 (34.3, 55.6) | 6.9 (2.5, 17.5) | 100 |
| Rural | 14.1 (11.5, 16.7) | 6.0 (1.5, 20.9) | 22.9 (9.3, 46.2) | 8.6 (2.8, 23.2) | 60.7 (37.4, 79.9) | $1.9(0.3,12.8)$ | 100 |
| Education Level |  |  |  |  |  |  |  |
| Less than primary school completed | -- | -- | -- | -- | -- | -- | -- |
| Primary school completed | -- | -- | -- | -- | -- | -- | -- |
| Secondaryschool completed | -- | -- | -- | -- | -- | -- | -- |
| High school completed | 16.4 (13.0, 19.8) | 6.9 (2.6, 17.1) | 23.4 (13.0, 38.4) | 6.7 (2.3, 18.2) | 54.2 (40.2, 67.5) | 8.9 (2.8, 24.8) | 100 |
| College or University + | -- | -- | -- | -- | -- | -- | -- |
| Occupation/Work status |  |  |  |  |  |  |  |
| Employed | 13.4 (11.1, 15.8) | 7.2 (2.5, 19.2) | 26.5 (16.1, 40.5) | 23.9 (13.2, 39.3) | 36.0 (24.2, 49.8) | 6.3 (1.5, 22.9) | 100 |
| Self-employed | 17.1 (14.2, 20.0) | 5.0 (1.5, 15.8) | 16.2 (7.7, 30.9) | 5.0 (1.2, 18.1) | 67.9 (51.0, 81.1) | 6.0 (2.0, 16.5) | 100 |
| Students | -- | -- | -- | -- | -- | -- | -- |
| Home makers | -- | -- | -- | -- | -- | -- | -- |
| Un-employed | -- | -- | -- | -- | -- | -- | -- |

-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.
Table 4.6B: Average number and percentage distribution of hand-rolled cigarettes smoked per day among daily hand-rolled cigarette smokers $\geq 15$ years old, by

| Demographic Characteristics | Average number of hand-rolled | Distribution of number of hand-rolled cigarettes smoked on average per day ${ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | <5 | 5-9 | 10-14 | 15-24 | $\geq 25$ | Total |
|  | Mean (95\% CI) | Percentage(95\% CI) |  |  |  |  |  |
| Overall | 11.8 (9.6, 14.0) | 18.4 (12.9, 25.5) | 27.5 (20.7, 35.6) | 27.2 (22.4, 32.5) | 17.1 (12.4, 23.1) | 9.8 (5.2, 17.8) | 100 |
| Gender |  |  |  |  |  |  |  |
| Male | 12.1 (9.8, 14.4) | 16.8 (11.3, 24.2) | 28.1 (20.9, 36.6) | 27.5 (22.4, 33.2) | 17.4 (12.6, 23.6) | 10.3 (5.4, 18.7) | 100 |
| Female | -- | -- | -- | -- | -- | -- | -- |
| Age (years) |  |  |  |  |  |  |  |
| 15-24 | -- | -- | -- | -- | -- | -- | -- |
| 25-44 | 12.6 (9.2, 16.0) | 14.9 (8.0, 25.9) | 31.7 (20.0, 46.2) | 25.8 (18.2, 35.4) | 15.9 (8.9, 27.0) | 11.7 (5.2, 24.4) | 100 |
| 45-64 | 11.9 (9.5, 14.2) | 19.6 (12.4, 29.5) | 23.5 (15.3, 34.4) | 27.9 (21.6, 35.3) | 16.8 (11.4, 24.2) | 12.2 (6.2, 22.6) | 100 |
| 65+ | 10.0 (8.0, 12.0) | 19.1 (10.6, 31.8) | 25.7 (17.5, 36.0) | 32.9 (24.0, 43.2) | 20.7 (11.9, 33.6) | 1.6 (0.4, 6.1) | 100 |
| Residence |  |  |  |  |  |  |  |
| Urban | 11.4 (7.5, 15.3) | 16.6 (8.1, 31.2) | 25.5 (13.0, 43.7) | 32.8 (24.9, 41.8) | 20.0 (13.1, 29.4) | 5.1 (0.7, 28.3) | 100 |
| Rural | 12.0 (9.3, 14.6) | 19.0 (12.7, 27.4) | 28.2 (20.5, 37.5) | 25.3 (19.7, 31.8) | 16.2 (10.7, 23.8) | 11.3 (5.7, 21.2) | 100 |
| Education Level |  |  |  |  |  |  |  |
| Less than primary school completed | $11.4(9.6,13.1)$ | 17.0 (11.4, 24.4) | 24.9 (17.8, 33.7) | 29.9 (24.0, 36.5) | 20.3 (14.5, 27.7) | 8.0 (3.2, 18.6) | 100 |
| Primaryschool completed | 13.6 (9.6, 17.7) | 16.9 (10.1, 27.1) | 28.8 (16.1, 46.1) | 25.8 (17.6, 36.1) | 13.2 (7.6, 22.0) | 15.3 (7.8, 27.7) | 100 |
| Secondaryschool completed | -- | -- | -- | -- | -- | -- | -- |
| High school completed | -- | -- | -- | -- | -- | -- | -- |
| College or University + | -- | -- | -- | -- | -- | -- | -- |
| Occupation/Work status |  |  |  |  |  |  |  |
| Employed | $10.5(8.6,12.4)$ | 13.7 (6.6, 26.0) | 37.2 (25.1, 51.0) | 31.2 (21.2, 43.4) | 13.1 (7.8, 21.4) | 4.8 (2.0, 11.0) | 100 |
| Self-employed | 13.0 (9.8, 16.2) | 20.1 (14.0, 28.0) | 22.0 (15.5, 30.3) | 24.4 (19.0, 30.8) | 19.4 (12.9, 28.0) | 14.2 (7.2, 25.9) | 100 |
| Students | -- | -- | -- | -- | -- | -- | -- |
| Home makers | -- | -- | -- | -- | -- | -- | -- |
| Un-employed | -- | -- | -- | -- | -- | -- | -- |

Among daily hand-rolled cigarette smokers.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.
Table 4.6C: Average number and percentage distribution of kretek cigarettes smoked perday among daily kretek smokers $\geq 15$ years old, by gender and
selected demographic characteristics - GATS Indonesia, 2011 .

| Demographic Characteristics | Average number of kretek cigarettes smoked per day ${ }^{1}$ | Distribution of number of kretek cigarettes smoked on average per day ${ }^{1}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | <5 | 5-9 | 10-14 | 15-24 | $\geq 25$ | Total |
|  | Mean (95\% CI) |  |  | centage(95\% CI) |  |  |  |
| Overall | 11.8 (11.1, 12.5) | 16.1 (12.9, 19.8) | 19.3 (16.8, 22.0) | 36.2 (32.4, 40.3) | 24.8 (21.4, 28.6) | 3.6 (2.6, 5.0) | 100 |
| Gender |  |  |  |  |  |  |  |
| Male | 11.9 (11.2, 12.6) | 15.4 (12.3, 19.2) | 18.9 (16.4, 21.6) | 36.8 (32.8, 40.9) | 25.2 (21.8, 29.1) | 3.7 (2.6, 5.1) | 100 |
| Female | 7.7 (5.8, 9.5) | 36.5 (24.6, 50.4) | 32.9 (22.7, 44.9) | 18.8 (9.5, 33.7) | 11.8 (5.4, 24.1) | 0.0 | 100 |
| Age (years) |  |  |  |  |  |  |  |
| 15-24 | 10.9 (9.6, 12.3) | 21.2 (15.3, 28.5) | 25.3 (19.3, 32.4) | 24.7 (19.1, 31.4) | 26.0 (20.0, 33.2) | 2.8 (1.3, 5.8) | 100 |
| 25-44 | 12.1 (11.4, 12.9) | 13.4 (10.3, 17.2) | 18.1 (15.1, 21.6) | 38.4 (33.5, 43.6) | 26.2 (22.2, 30.5) | 3.9 (2.5, 6.0) | 100 |
| 45-64 | 11.8 (10.8, 12.8) | 16.1 (12.0, 21.3) | 18.4 (14.8, 22.7) | 39.3 (34.0, 45.0) | 22.3 (17.4, 28.0) | $3.8(2.3,6.2)$ | 100 |
| 65+ | 10.4 (8.9, 12.0) | 26.4 (17.9, 37.2) | 14.0 (8.1, 23.0) | 37.5 (28.1, 48.0) | 20.0 (11.6, 32.3) | 2.1 (0.5, 8.2) | 100 |
| Residence |  |  |  |  |  |  |  |
| Urban | 11.5 (10.7, 12.4) | 15.3 (11.4, 20.1) | 22.2 (18.7, 26.2) | 36.5 (31.9, 41.4) | 22.7 (18.7, 27.3) | 3.2 (2.0, 5.3) | 100 |
| Rural | 12.0 (11.0, 13.0) | 16.7 (12.1, 22.6) | 16.9 (13.7, 20.6) | 36.0 (30.1, 42.3) | 26.6 (21.5, 32.4) | 3.9 (2.5, 5.9) | 100 |
| Education Level |  |  |  |  |  |  |  |
| Less than primaryschool completed | 11.5 (10.4, 12.6) | 21.6 (16.6, 27.7) | 16.7 (13.4, 20.8) | 34.6 (29.3, 40.2) | 23.5 (18.3, 29.6) | 3.6 (2.0, 6.1) | 100 |
| Primary school completed | 11.8 (10.7, 12.9) | 16.2 (11.3, 22.6) | 18.3 (14.3, 23.0) | 40.5 (34.4, 46.9) | 21.2 (16.6, 26.8) | 3.8 (2.3, 6.2) | 100 |
| Secondary school completed | 11.5 (10.6, 12.5) | 14.1 (9.8, 19.9) | 24.0 (19.1, 29.7) | 33.4 (27.6, 39.7) | 24.6 (19.7, 30.3) | 3.9 (2.3, 6.6) | 100 |
| High school completed | 12.0 (11.2, 12.9) | 13.9 (10.2, 18.6) | 18.8 (14.7, 23.7) | 36.5 (30.9, 42.5) | 27.7 (22.2, 33.9) | 3.2 (1.9, 5.4) | 100 |
| College or University + | 12.6 (11.4, 13.9) | 8.9 (4.0, 18.6) | 20.1 (13.4, 29.0) | 29.0 (20.7, 39.0) | 39.2 (29.7, 49.6) | 2.7 (0.7, 9.9) | 100 |
| Occupation/Work status |  |  |  |  |  |  |  |
| Employed | 11.7 (10.8, 12.5) | 15.6 (11.8, 20.4) | 20.4 (17.1, 24.3) | 36.4 (31.9, 41.2) | 24.5 (20.7, 28.6) | 3.1 (2.0, 4.7) | 100 |
| Self-employed | 12.2 (11.3, 13.1) | 14.9 (10.8, 20.1) | 16.3 (13.3, 19.9) | 38.2 (32.8, 44.0) | 26.2 (21.3, 31.8) | 4.4 (3.0, 6.2) | 100 |
| Students | 10.6 (8.7, 12.5) | 15.4 (6.2, 33.1) | 25.3 (12.7, 44.0) | 30.6 (12.3, 57.9) | 28.8 (14.6, 48.8) | 0.0 | 100 |
| Home makers | 7.3 (5.6, 8.9) | 24.2 (11.3, 44.5) | 54.2 (35.5, 71.8) | 18.2 (8.2, 35.6) | 3.4 (0.5, 21.7) | 0.0 | 100 |
| Un-employed | 10.3 (8.2, 12.4) | 26.5 (18.9, 35.8) | 27.0 (18.7, 37.4) | 24.3 (17.1, 33.4) | 19.6 (11.9, 30.5) | 2.6 (0.8, 8.2) | 100 |

[^7]
### 4.7. Age at smoking initiation

Table 4.7 shows the distribution of ever daily smokers by the age at initiation of daily smoking among ever daily smokers in the 20-34 years age group based on gender, place of residence, educational level and occupation status. Overall, and among men, the average age at daily smoking initiation is 17.6 years. There are $39.9 \%$ smokers who start smoking daily at the age of $17-19$ years, $24.6 \%$ at the age of $20+$ years, $23.0 \%$ at the age of $15-16$ years and $12.5 \%$ among those less than 15 years old. Thus, about $75 \%$ smokers start smoking before the age of 20 years.

There is no significant difference in the average age at daily smoking initiation in the urban and rural population (17.7 and 17.5 years, respectively). Average age at daily smoking initiation is higher in people with college and university education as compared to all other educational categories. The average age at initiation of daily smoking does not differ significantly among the employed, self-employed and unemployed categories.

There are no significant differences in age at daily smoking initiation by residence or by occupation in any of the age groups - <15, 15-16, 17-19 and 20+ years. However, in the age groups <15 and 17-19 years, there are significant differences between the lowest and highest levels of education. In the age groups of 15-16 and 20+ years, no difference is noted by educational category (Table 4.7).

Table 4.7. Percentage distribution of ever daily smokers 20-34 years old by age at daily smoking initiation, gender and residence GATS Indonesia, 2011

| Demographic characteristics | Average age of daily smoking | Age at daily smoking initiation (years) ${ }^{1}$ |  |  |  |  |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | <15 |  | 15-16 |  |  | 17-19 |  | 20+ |  |
|  | Percentage (95\% CI) |  |  |  |  |  |  |  |  |  |  |
| Overall | 「 17.6 (17.3, 17.9) | 12.5 | $(8.9,17.2)$ | 23.0 | (19.3, | 27.1) ${ }^{\text {r }}$ | 39.9 | $(35.5,44.5)^{\text {² }}$ |  | (21.0, 28.7) | 100 |
| Gender |  |  |  |  |  |  |  |  |  |  |  |
| Men | ${ }^{\prime} 17.6$ (17.3, 17.9) | 12.5 | $(8.8,17.3)$ | 23.0 | (19.3, | 27.1) ${ }^{\text {r }}$ | 40.3 | $(35.8,44.9){ }^{\text {² }}$ |  | (20.6, 28.4) | 100 |
| Women | - | - |  | - |  |  |  |  | - |  |  |
| Residence |  |  |  |  |  |  |  |  |  |  |  |
| Urban | ${ }^{\circ} 17.7$ (17.3, 18.1) | 11.6 | $(8.5,15.6)$ | F 20.7 | (15.8, | 26.6) ${ }^{\prime}$ | 42.6 | $(36.3,49.2)^{\text {² }}$ |  | (20.1, 30.9) | 100 |
| Rural | ${ }^{\circ} 17.5$ (17.0, 18.0) | 13.3 | $(7.7,22.0)$ | F 25.0 | (19.8, | 31.0) ${ }^{\text {F }}$ | 37.6 | $(31.5,44.1)^{\text {F }}$ |  | (19.2, 30.1) | 100 |
| Educational level |  |  |  |  |  |  |  |  |  |  |  |
| Less than primaryschool completed | ${ }^{*} 16.9$ (16.3, 17.5) | 19.2 | (12.3, 28.6) | 32.5 | (22.9, | 43.9) ${ }^{\prime}$ | 23.6 | $(16.6,32.5)^{\text {² }}$ |  | $(16.8,34.7)$ | 100 |
| Primary school completed | F 17.2 (16.6, 17.7) | 18.1 | $(11.6,27.0)$ | F 22.6 | (16.2, | 30.7) ${ }^{\text {F }}$ | 36.6 | $(28.7,45.2)^{\prime}$ |  | $(16.6,30.5)$ | 100 |
| Secondary school completed | ${ }^{*} 17.5$ (16.9, 18.0) |  | $(6.7,20.8)$ | F 27.0 | (20.1, | 35.1) ${ }^{\text {r }}$ | 36.6 | $(28.9,45.0)^{\text {F }}$ |  | (18.4, 31.5) | 100 |
| High school completed | ${ }^{\circ} 18.0$ (17.6, 18.4) |  | $(4.9,11.6)$ | F 18.6 | (13.0, | 25.8) ${ }^{\text {F }}$ | 50.1 | $(42.1,58.1)^{\prime \prime}$ |  | $(18.5,30.0)$ | 100 |
| College \& university + | ${ }^{*} 19.5$ (18.6, 20.4) |  | (0.1, 7.0) | F 11.5 | (5.1, | 24.0) ${ }^{\text {F }}$ | 51.5 | $(38.6,64.2){ }^{\text {² }}$ |  | $(22.8,51.7)$ | 100 |
| Occupation/work status |  |  |  |  |  |  |  |  |  |  |  |
| Employed | ${ }^{\sim} 17.7$ (17.2, 18.2) | 12.9 | (7.0, 22.7) | F 21.1 | (16.3, | 26.8) ${ }^{\prime \prime}$ | 41.2 | (35.1, 47.5) ${ }^{\text {² }}$ |  | $(20.3,30.1)$ | 100 |
| Self-employed | 「 17.7 (17.2, 18.1) | 12.5 | $(8.8,17.4)$ | F 23.3 | (18.2, | 29.4) ${ }^{\text {² }}$ | 37.6 | $(31.4,44.1)^{\text {F }}$ |  | $(20.7,33.5)$ | 100 |
| Students | - | - |  | - |  |  | - |  | - |  | - |
| Home-makers | - | - |  | - |  |  | - |  | - |  | - |
| Unemployed | ${ }^{*} 16.4$ (15.8, 17.0) | 14.7 | $(6.6,29.6)$ | F 36.2 | (21.5, | 54.0) ${ }^{\text {F }}$ | 41.3 | $(26.5,57.8)^{\text {F }}$ | 7.8 | (2.5, 21.9) | 100 |

Note: Smoking initiation among any daily smokers (cigarettes or any other smoked products daily)
${ }^{1}$ Among respondents $25-34$ years of age who are ever daily smokers

- Indicator estimate based on less than 25 unweighted cases and has been suppressed.


### 4.8. Former daily smoking prevalence and quit ratio

Table 4.8 shows the proportion of former daily smokers among all adults, and former daily smokers among ever daily smokers (known as the quit ratio) by selected demographic characteristics. There are $3.3 \%$ current non-smokers among all adults and $9.5 \%$ smoking quitters among ever daily smokers. There are $6.0 \%$ current non-smokers among men and $0.6 \%$ among women. However, the quit ratio in men is $9 \%$ while it is $23.2 \%$ in women.

The percentage of current non-smokers and the quit ratio rises as the age increases. The percentage of former daily smokers is $0.4 \%$ in the $15-24$ years age group, $2.6 \%$ in the $25-44$ years age group, $5.6 \%$ in the $45-64$ years age group and $9.8 \%$ in the $65+$ years age group. In addition, the quit ratio is $2 \%$ in the age group of $15-24$ years, $6.9 \%$ in those $25-44$ years, $13.4 \%$ in those $45-64$ years, and $25.1 \%$ in those $65+$ years. There are more current non-smokers in urban areas than that in rural areas ( $3.7 \%$ and $2.9 \%$, respectively). The quit ratio is also higher in urban areas than that in rural areas ( $11.4 \%$ and $7.9 \%$, respectively).

The largest proportion of current non-smokers and quit ratio is among those in the college and university groups ( $5.3 \%$ and $18.2 \%$, respectively). The smallest proportion of current non-smokers and quit ratio is among those in the secondary school completed group ( $1.5 \%$ and $5 \%$, respectively). The proportion of current non-smokers and quit ratio tends to decrease as the education level rises to the group of secondary school completed, and then increases and peaks at the highest education level.

The largest proportion of current non-smokers is in the unemployed group (6.6\%), followed by the self-employed (4.5\%), employed (3.8\%), home-makers ( $0.7 \%$ ) and students groups ( $0.1 \%$ ). The quit ratio for daily smoking is $28.5 \%$ among home-makers, $19.2 \%$ among the unemployed, $8.9 \%$ among the self-employed, $8 \%$ among the employed and only $0.8 \%$ among students.

Table 4.8: Percentage of all adults and ever daily smokers $\geq 15$ years old who are former daily smokers, by selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Former Daily Smokers ${ }^{1}$ (Among All Adults) | Former Daily Smokers ${ }^{1}$ <br> (Among Ever Daily Smokers) ${ }^{2}$ |
| :---: | :---: | :---: |
|  | Percentage (95\% CI) |  |
| Overall | 3.3 (2.8, 3.9) | 9.5 (8.0, 11.3) |
| Gender |  |  |
| Male | 6.0 (5.0, 7.2) | 9.0 (7.5, 10.7) |
| Female | 0.6 (0.4, 1.0) | 23.2 (14.6, 34.7) |
| Age (years) |  |  |
| 15-24 | 0.4 (0.1, 1.3) | 2.0 (0.7, 6.0) |
| 25-44 | 2.6 (2.0, 3.3) | 6.9 (5.4, 8.9) |
| 45-64 | 5.6 (4.4, 7.1) | 13.4 (10.5, 17.0) |
| 65+ | 9.8 (7.6, 12.6) | 25.1 (20.1, 30.8) |
| Residence |  |  |
| Urban | 3.7 (2.9, 4.6) | 11.4 (8.9, 14.3) |
| Rural | 2.9 (2.3, 3.7) | 7.9 (6.1, 10.2) |
| Education Level |  |  |
| Less than primaryschool completed | 4.1 (3.1, 5.4) | 10.6 (8.0, 13.9) |
| Primary school completed | 3.2 (2.3, 4.3) | 8.8 (6.5, 11.8) |
| Secondary school completed | 1.5 (0.9, 2.3) | 5.0 (3.2, 7.6) |
| High school completed | 3.7 (2.9, 4.8) | 10.7 (8.2, 13.7) |
| College or University + | 5.3 (3.6, 7.8) | 18.2 (12.6, 25.6) |
| Occupation/Work status |  |  |
| Employed | 3.8 (2.8, 5.0) | 8.0 (6.0, 10.7) |
| Self-employed | 4.5 (3.6, 5.6) | 8.9 (7.1, 11.1) |
| Students | 0.1 (0.0, 0.5) | 0.8 (0.1, 5.6) |
| Home makers | 0.7 (0.3, 1.5) | 28.5 (14.2, 49.1) |
| Un-employed | 6.6 (4.7, 9.3) | 19.2 (13.8, 26.1) |

Note: Smoking initiation among any daily smokers (cigarettes, kreteks or any other smoked products daily).
${ }^{1}$ Current non-smokers.
${ }^{2}$ Also known as the quit ratio for daily smoking.

### 4.9. Time since quitting smoking

Table 4.9 reports on the time since former daily smokers (current non-smokers) have quit smoking, in four groups (<1 year, 1-5 years, 5-10 years and 10 years or more). Overall, $46.8 \%$ of current non-smokers quit smoking more than 10 years ago, $17.6 \%$ for $5-10$ years, $25.5 \%$ for $1-5$ years and $10 \%$ for less than a year. A similar pattern is seen in men and women current non-smokers; however, only $4.4 \%$ of women current non-smokers have quit less than a year ago as compared to $10.6 \%$ of men.

The percentage of current non-smokers who quit more than 10 years ago is $57.5 \%$ in the age group of $45-64$ years , $48.5 \%$ in the age group of $65+$ years and $37.8 \%$ in the age group of $25-44$ years. By residence, $47.0 \%$ quit smoking for over 10 years in urban areas and $46.6 \%$ in rural areas. By educational level, the largest percentage of those who had quit smoking for more than 10 years ago is at the college and university level (53.5\%); the percentage in the high school completed group is $47.6 \%$, secondary school completed is $46.8 \%$, primary school completed is $47.7 \%$ and less than primary school completed is $42.4 \%$. There are $47.8 \%$ current non-smokers who have quit smoking for more than 10 years among the self-employed, $47.2 \%$ among the employed and $47.3 \%$ among the unemployed groups.

Table 4.9: Percentage distribution of former daily smokers $\geq 15$ years old, by time since quitting smoking and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Time since quitting smoking (years) ${ }^{1}$ |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | <1 | 1 to <5 | 5 to <10 | $\geq 10$ |  |
|  | Percentage ( $95 \% \mathrm{Cl}$ ) |  |  |  |  |
| Overall | 10.0 (6.6, 14.9) | 25.5 (20.4, 31.4) | 17.6 (12.9, 23.7) | 46.8 (40.1, 53.6) | 100 |
| Gender |  |  |  |  |  |
| Male | 10.6 (6.9, 16.0) | 24.5 (19.2, 30.6) | 17.6 (12.5, 24.2) | 47.3 (40.6, 54.1) | 100 |
| Female | 4.4 (0.6, 25.4) | 35.9 (17.1, 60.3) | 17.7 (8.1, 34.2) | 42.0 (22.9, 63.8) | 100 |
| Age (years) |  |  |  |  |  |
| 15-24 | -- | -- | -- | -- | -- |
| 25-44 | 6.0 (2.7, 12.9) | 35.0 (25.1, 46.4) | 21.2 (14.1, 30.5) | 37.8 (28.2, 48.4) | 100 |
| 45-64 | $11.2(6.1,19.7)$ | 17.3 (11.2, 25.8) | 14.0 (8.4, 22.2) | 57.5 (48.3, 66.3) | 100 |
| 65+ | 11.2 (4.6, 24.9) | 18.6 (10.7, 30.4) | 21.7 (12.1, 35.8) | 48.5 (34.6, 62.6) | 100 |
| Residence |  |  |  |  |  |
| Urban | 13.3 (8.1, 20.9) | 20.8 (15.3, 27.7) | 18.9 (13.0, 26.6) | 47.0 (38.4, 55.9) | 100 |
| Rural | 6.1 (3.1, 11.7) | 31.3 (22.6, 41.5) | 16.1 (9.1, 26.8) | 46.6 (36.3, 57.1) | 100 |
| Education Level |  |  |  |  |  |
| Less than primary school completed | 9.4 (4.6, 18.5) | 30.1 (18.1, 45.6) | 18.1 (11.6, 27.1) | 42.4 (30.3, 55.4) | 100 |
| Primaryschool completed | 12.1 (5.2, 25.5) | 24.5 (15.3, 36.8) | 15.8 (7.9, 29.2) | 47.7 (34.1, 61.6) | 100 |
| Secondaryschool completed | 2.8 (0.4, 18.5) | 37.3 (20.9, 57.2) | 13.1 (5.3, 29.1) | 46.8 (29.8, 64.5) | 100 |
| High school completed | 9.5 (3.5, 23.0) | 22.2 (13.4, 34.5) | 20.8 (11.9, 33.7) | 47.6 (34.7, 60.8) | 100 |
| College or University + | 14.1 (5.4, 32.3) | 15.1 (6.8, 30.3) | 17.2 (6.9, 37.0) | 53.5 (31.8, 74.0) | 100 |
| Occupation/Work status |  |  |  |  |  |
| Employed | 10.5 (5.5, 19.1) | 21.5 (13.2, 33.0) | 20.7 (12.2, 33.0) | 47.2 (34.2, 60.6) | 100 |
| Self-employed | 10.7 (5.3, 20.4) | 25.5 (17.2, 36.1) | 15.9 (10.7, 23.1) | 47.8 (38.2, 57.7) | 100 |
| Students | -- | -- | -- | -- | -- |
| Home makers | -- | -- | -- | -- | -- |
| Un-employed | 10.2 (3.7, 25.3) | 22.7 (11.9, 39.0) | 19.8 (9.5, 36.8) | 47.3 (32.5, 62.5) | 100 |

${ }^{1}$ Among former daily smokers (current non-smokers).
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

### 4.10. Type of current tobacco use

Table 4.10 gives the type of tobacco used by current tobacco users (which includes both daily and occasional tobacco users), by selected demographic characteristics. Overall, the percentage of current tobacco users is $36.1 \%$. Among these, $95.1 \%$ use smoked tobacco only, $2.6 \%$ use smokeless tobacco only and $2.3 \%$ use both smoked and smokeless tobacco. While there are $67.4 \%$ tobacco users among men, there are only $4.5 \%$ tobacco users among women. The majority of men tobacco users use smoked tobacco only ( $97.7 \%$ ), the percentage among women is $56.1 \%$. Among men tobacco users, the proportion of smokeless tobacco users is only $0.1 \%$ while that among women tobacco users is $40.2 \%$. The proportion of those who used both smoked and smokeless tobacco among men tobacco users is $2.2 \%$ and among women tobacco users it is $3.7 \%$ (Figure 4.3).

The proportion of current tobacco users in the 15-24 years age group is $26.6 \%$. This increases to $38.3 \%$ in the 25-44 years age group and to $40.7 \%$ in the $45-64$ years age group. It reduces slightly to $38.2 \%$ in the $65+$ years age group. The proportion of smoked-only tobacco users tends to decline as the age increases ( $97.1 \%$ in the $15-24$ years age group, $96.6 \%$ in the $25-44$ years age group, $95.4 \%$ in the $45-64$ years age group and $79.5 \%$ in the $65+$ years age group). In contrast, there is an increasing trend as the age increases in smokeless-only tobacco use ( $0.7 \%$ in the $15-$ 24 years age group, $0.9 \%$ in the $25-44$ years age group, $2.7 \%$ in the $45-64$ years age group and $17.4 \%$ in the $65+$ years age group).

There are more current tobacco users in rural areas (39.1\%) than in urban areas (33\%). There are $96.2 \%$ smoked-only tobacco users in urban areas and $94.3 \%$ in rural areas. The percentage of smokeless-only tobacco users in rural areas is $3.1 \%$ while in urban areas it is $2 \%$.

The proportion of current tobacco users decreases with higher educational levels. It is $41.2 \%$ among less than primary school completed, $37.8 \%$ among primary school graduates, $33 \%$ among secondary school graduates, $34.3 \%$ among high school completed and reaches the lowest proportion of $28.0 \%$ among college and university graduates.

By occupation, the largest proportion of current tobacco users is among the self-employed group (51.4\%), followed by the employed group (47.6\%), unemployed group (34.5\%), students (14.6\%) and home-makers (4.3\%). Even though the home-makers group had the smallest percentage of smoked-only tobacco users (62.4\%), it has the largest percentage of smokeless-only tobacco users (36.9\%).

Table 4.10: Percentage distribution of current tobacco users $\geq 15$ years old, by tobacco use pattern and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Current Tobacco Users ${ }^{1}$ | Type of Current Tobacco Use |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Smoked only | Smokeless only | Both smoked and smokeless | Total |
|  | Percentage (95\% CI ) |  |  |  |  |
| Overall | 36.1 (34.4, 37.8) | 95.1 (93.9, 96.1) | 2.6 (1.9, 3.5) | 2.3 (1.6, 3.2) | 100 |
| Gender |  |  |  |  |  |
| Male | 67.4 (64.8, 69.9) | 97.7 (96.7, 98.4) | 0.1 (0.0, 0.3) | 2.2 (1.5, 3.2) | 100 |
| Female | 4.5 (3.6, 5.6) | 56.1 (45.3, 66.3) | 40.2 (30.7, 50.5) | 3.7 (1.7, 7.6) | 100 |
| Age (years) |  |  |  |  |  |
| 15-24 | 26.6 (23.9, 29.6) | 97.1 (94.6, 98.5) | $0.7(0.2,2.5)$ | 2.1 (0.9, 4.8) | 100 |
| 25-44 | 38.3 (36.2, 40.4) | 96.6 (95.0, 97.8) | $0.9(0.4,1.9)$ | 2.5 (1.6, 3.7) | 100 |
| 45-64 | 40.7 (37.5, 44.0) | 95.4 (93.4, 96.9) | 2.7 (1.7, 4.3) | 1.8 (1.0, 3.2) | 100 |
| 65+ | 38.2 (34.1, 42.4) | 79.5 (74.0, 84.1) | 17.4 (13.1, 22.8) | 3.1 (1.5, 6.0) | 100 |
| Residence |  |  |  |  |  |
| Urban | 33.0 (30.9, 35.3) | 96.2 (94.5, 97.3) | 2.0 (1.3, 3.1) | 1.9 (1.1, 3.1) | 100 |
| Rural | 39.1 (36.5, 41.7) | 94.3 (92.5, 95.7) | 3.1 (2.1, 4.7) | 2.6 (1.7, 4.1) | 100 |
| Education Level |  |  |  |  |  |
| Less than primary school completed | 41.2 (38.1, 44.3) | 90.0 (87.1, 92.4) | 7.2 (5.2, 9.8) | $2.8(1.8,4.5)$ | 100 |
| Primary school completed | 37.8 (35.5, 40.2) | 97.5 (96.1, 98.4) | $0.7(0.3,1.6)$ | 1.7 (0.9, 3.2) | 100 |
| Secondary school completed | 33.0 (30.1, 36.0) | 95.4 (92.7, 97.1) | 2.0 (0.9, 4.1) | 2.7 (1.4, 5.0) | 100 |
| High school completed | 34.3 (31.9, 36.8) | 97.1 (94.6, 98.5) | 0.6 (0.1, 2.2) | 2.3 (1.3, 4.3) | 100 |
| College or University + | 28.0 (24.0, 32.3) | 98.0 (93.8, 99.4) | 0.7 (0.1, 4.9) | 1.3 (0.3, 5.3) | 100 |
| Occupation/Work status |  |  |  |  |  |
| Employed | 47.6 (44.8, 50.5) | 96.9 (95.5, 97.9) | 0.7 (0.4, 1.3) | 2.4 (1.5, 3.9) | 100 |
| Self-employed | 51.4 (47.8, 54.9) | 96.0 (94.4, 97.1) | 1.6 (0.9, 2.8) | 2.4 (1.6, 3.6) | 100 |
| Students | 14.6 (11.2, 19.0) | 97.4 (88.2, 99.5) | 0.6 (0.1, 4.6) | $1.9(0.3,13.1)$ | 100 |
| Home makers | 4.3 (3.1, 5.9) | 62.4 (47.2, 75.5) | 36.9 (23.9, 52.1) | 0.7 (0.1, 5.2) | 100 |
| Un-employed | 34.5 (30.0, 39.2) | 90.7 (85.4, 94.2) | 7.9 (4.7, 13.0) | 1.4 (0.4, 4.9) | 100 |

[^8]Figure. 4.2. Prevalence of current tobacco use by type of product used and gender - GATS Indonesia, 2011


Note: All figures are in percentages.

### 4.11. Time to first cigarette of the day

Table 4.11 shows the time to the first smoke upon waking among daily tobacco smokers by gender, age, residence, educational level and occupation. Overall, $6.8 \%$ smoke their first cigarette within 5 minutes of waking, $31.5 \%$ within $6-30$ minutes, $29.4 \%$ within $31-60$ minutes and $32.3 \%$ after more than 60 minutes. Among men, the proportion is $6.7 \%$ within 5 minutes, $31.9 \%$ within $6-30$ minutes, $29.7 \%$ within $31-60$ minutes and $31.7 \%$ beyond 60 minutes. Among women, $10.1 \%$ smoke their first cigarette within 5 minutes of waking, $20.0 \%$ within $6-30$ minutes, $20.0 \%$ within 31-60 minutes and $50.0 \%$ after 60 minutes. The largest percentage of those in the $25-44$ years age group had their first cigarette in 6-30 minutes (34.1\%); in the other age groups the largest percentage had it in more than 60 minutes. In the urban populace, the maximum percentage (34.2\%) smoke their first cigarette more than 60 minutes after waking. In the rural populace, the maximum (33.2\%) smoke their first cigarette in 31-60 minutes. By educational level, the smallest proportion of those who smoke their first cigarette in less than 5 minutes of waking is the college and university group (2.4\%) and the largest (7.7\%) are secondary school graduates. At the other end, the largest and smallest proportion of those that have their first cigarette beyond 60 minutes of waking are primary school graduates ( $27.2 \%$ ) and the college or university group ( $47.3 \%$ ). Compared to other occupations, the largest proportion of smokers who smoke within 5 minutes of waking is the unemployed (9.0\%) and the smallest are students ( $0 \%$ ). The largest proportion of smokers who smoke after 60 minutes are students ( $58.7 \%$ ) and the smallest proportion are the self-employed (29.5\%).

Table 4.11: Percentage distribution of daily tobacco smokers $\geq 15$ years old, by time to first smoke upon waking and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Time to first smoke |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\leq 5$ minutes | 6-30 minutes | 31-60 minutes | >60 minutes |  |
|  | Percentage (95\% CI) |  |  |  |  |
| Overall | 6.8 (5.0, 9.1) | 31.5 (27.1, 36.3) | 29.4 (25.1, 34.1) | 32.3 (27.9, 37.0) | 100 |
| Gender |  |  |  |  |  |
| Male | 6.7 (4.9, 9.0) | 31.9 (27.5, 36.7) | 29.7 (25.4, 34.4) | 31.7 (27.3, 36.5) | 100 |
| Female | 10.1 (4.7, 20.3) | 20.0 (11.4, 32.6) | 20.0 (12.7, 30.0) | 50.0 (38.2, 61.8) | 100 |
| Age (years) |  |  |  |  |  |
| 15-24 | 6.8 (2.9, 15.5) | 28.8 (22.3, 36.4) | 25.7 (19.0, 33.6) | 38.7 (31.0, 47.0) | 100 |
| 25-44 | 6.6 (4.7, 9.2) | 31.1 (26.5, 36.2) | 30.3 (25.5, 35.7) | 32.0 (27.3, 37.1) | 100 |
| 45-64 | 7.0 (4.7, 10.3) | 34.1 (28.2, 40.5) | 30.3 (25.6, 35.5) | 28.6 (23.5, 34.3) | 100 |
| 65+ | 7.0 (3.5, 13.7) | 31.0 (22.5, 41.0) | 27.7 (20.3, 36.5) | 34.3 (25.1, 44.8) | 100 |
| Residence |  |  |  |  |  |
| Urban | 7.0 (4.6, 10.5) | 34.0 (27.2, 41.5) | 24.8 (19.7, 30.7) | 34.2 (27.7, 41.4) | 100 |
| Rural | 6.6 (4.2, 10.1) | 29.5 (24.1, 35.7) | 33.2 (26.8, 40.2) | 30.7 (24.9, 37.2) | 100 |
| Education Level |  |  |  |  |  |
| Less than primary school completed | 7.4 (4.9, 11.1) | 30.9 (24.3, 38.4) | 31.3 (26.0, 37.2) | 30.3 (24.3, 37.1) | 100 |
| Primaryschool completed | 7.6 (5.0, 11.4) | 36.7 (30.3, 43.6) | 28.5 (21.9, 36.2) | 27.2 (21.5, 33.9) | 100 |
| Secondary school completed | 7.7 (5.0, 11.6) | 28.8 (22.7, 35.7) | 27.9 (21.7, 35.2) | 35.6 (28.3, 43.7) | 100 |
| High school completed | 5.1 (2.7, 9.5) | 29.1 (23.2, 35.9) | 30.9 (25.5, 36.9) | 34.8 (29.1, 40.9) | 100 |
| College or University + | 2.4 (0.8, 7.1) | 25.9 (15.8, 39.5) | 24.3 (16.0, 35.1) | 47.3 (36.8, 58.1) | 100 |
| Occupation/Work status |  |  |  |  |  |
| Employed | 5.7 (3.9, 8.2) | 32.0 (26.3, 38.3) | 29.1 (22.9, 36.2) | 33.2 (27.4, 39.5) | 100 |
| Self-employed | 7.5 (5.1, 11.0) | 32.2 (26.6, 38.3) | 30.8 (25.3, 36.8) | 29.5 (24.2, 35.5) | 100 |
| Students | 0.0 | 15.0 (6.6, 30.4) | 26.3 (12.1, 48.0) | 58.7 (39.9, 75.3) | 100 |
| Home makers | 8.6 (2.0, 30.6) | 21.6 (9.5, 42.0) | 17.4 (7.9, 34.0) | 52.3 (34.3, 69.8) | 100 |
| Un-employed | 9.0 (4.6, 16.8) | 31.0 (22.4, 41.1) | 24.2 (17.3, 32.7) | 35.9 (27.3, 45.6) | 100 |

### 4.12. Use of electronic cigarettes

Table 4.12 shows proportion of adults who have heard of, and use, electronic cigarettes. Overall, $10.9 \%$ adults have heard about electronic cigarettes, but only $0.3 \%$ use it.

More men than women had heard about electronic cigarettes ( $16.8 \%$ and $5.1 \%$, respectively), as well as those in the $15-24$ and $25-44$ years age group ( $14.4 \%$ and $12.4 \%$, respectively), those living in urban areas ( $15.3 \%$ ), people with higher levels of education (secondary, high school, and college and university), those who are employed and students.

Use of electronic cigarettes is limited to men only ( $0.5 \%$ ). It does not differ substantially by age, residence, educational level or occupation. In all cases, the use is very limited ( $0.5 \%$ or less).

Table 4.12: Percentage of adults $\geq 15$ years old, who have heard of and currently use electronic cigarettes, GATS Indonesia, 2011.

| Demographic Characteristics | Heard of electronic <br> cigarettes | Current use of electronic <br> cigarettes |
| :--- | :---: | :---: |
| Percentage(95\% CI) |  |  |
| Overall | $10.9(9.3,12.9)$ | $0.3(0.2,0.5)$ |
| Gender |  |  |
| Male | $16.8(14.2,19.8)$ | $0.5(0.3,1.0)$ |
| Female | $5.1(4.0,6.5)$ | 0.0 |
| Age (years) |  |  |
| 15-24 | $14.4(11.7,17.5)$ | $0.2(0.1,0.5)$ |
| 25-44 | $12.4(10.3,14.9)$ | $0.3(0.2,0.7)$ |
| 45-64 | $7.4(5.7,9.6)$ | $0.3(0.1,1.2)$ |
| 65+ | $1.6(0.6,4.1)$ | 0.0 |
| Residence |  |  |
| Urban | $15.3(12.5,18.7)$ | $0.4(0.2,0.8)$ |
| Rural | $6.5(4.9,8.7)$ | $0.1(0.1,0.3)$ |
| Education Level |  |  |
| Less than primary school completed | $1.4(0.9,2.1)$ | 0.0 |
| Primary school completed | $5.7(4.0,8.2)$ | $0.2(0.1,0.7)$ |
| Secondary school completed | $11.5(9.2,14.3)$ | $0.3(0.1,0.9)$ |
| High school completed | $20.3(17.0,24.0)$ | $0.4(0.2,0.8)$ |
| College or University + | $29.4(24.0,35.5)$ | $0.8(0.4,1.9)$ |
| Occupation/Work status |  |  |
| Employed | $16.3(13.4,19.6)$ | $0.3(0.2,0.7)$ |
| Self-employed | $8.8(7.1,10.8)$ | $0.4(0.2,0.8)$ |
| Students | $19.1(14.3,25.0)$ | $0.3(0.1,1.4)$ |
| Home makers | $4.8(3.5,6.6)$ | 0.0 |
| Un-employed | $9.5(6.9,12.9)$ | $0.3(0.1,1.3)$ |

## 5. Cessation

Indonesia has a tobacco control policy in place to set up and support smoking cessation clinics in various health service settings and to provide counselling through national quit-lines all over the country. The Global Health Professions Students Survey (GHPSS) conducted among third-year medical and dental students in Indonesia shows that most tobacco users want to quit their tobacco habit. Most of the students wanted formal cessation training but less than one sixth of students got it. However, there are no data on cessation attitudes and cessation practices among any subnational or national sample in Indonesia.

The tobacco cessation questionnaire in the GATS conducted in Indonesia included different approaches such as counselling by any health-care provider (HCP), prescription medication, quitting without assistance and others (such as traditional medicines, switching to smokeless tobacco or any other method). Pharmacotherapeutic agents used for tobacco cessation are not available in Indonesia, hence it was not included. This chapter presents the findings on tobacco cessation practices and health-care seeking behaviour, cessation methods and the degree of interest in quitting.

## Key findings

- Roughly three in ten current smokers have made quit attempts.
- Roughly 4 in 10 current smokers were asked if they smoked tobacco by a doctor or a health-care provider in the past 12 months.
- Nearly one third of current smokers received advice to quit smoking by a doctor or a health-care provider in the past 12 months.
- Quitting without assistance was the most common cessation method reported by current smokers who have made an attempt to quit in the past 12 months.


### 5.1. Smoking cessation and health-care seeking behaviours

A "quit attempt" is defined as being abstinent for less than 12 months by current and former tobacco smokers. Table 5.1 gives the proportion of adult smokers and former smokers who made a quit attempt, visited an HCP, were asked about smoking and received advice from an HCP on quitting smoking.

### 5.1.1. Made quit attempt

Among current and former tobacco smokers, approximately one third (30.4\%) made an attempt to quit in the past 12 months. More women made quit attempts than men ( $44.6 \%$ and $29.8 \%$, respectively) (Figure 5.1 ). Smokers who live in urban areas have a higher rate of quit attempts than those in rural areas ( $35.9 \%$ and $25.6 \%$, respectively). By age group, quit attempt rates range from $25.7 \%$ ( $65+$ years) to $36.5 \%$ ( $15-24$ years). By educational level, smokers with college and university education have the highest percentage of quit attempts (39.4\%). The rate is lowest among smokers with less than primary school education (23.7\%).

### 5.1.2. Visited health-care providers

The percentage of smokers (including current and former tobacco smokers) who visited an HCP during the past 12 months is $30.2 \%$. Smokers aged 65 years and above have the highest rate of HCP visits ( $43.9 \%$ ). Smokers who live in rural areas have a slightly higher rate of HCP visits than those in urban areas ( $31.6 \%$ and $28.7 \%$, respectively). By educational level, smokers with college and university education have the highest rate of HCP visits (38.6\%), followed by smokers with less than primary education (37.7\%). Secondary school graduates have the lowest rate of HCP visits (24.6\%). By occupation, home-makers and students have the highest and lowest rates of visits to HCPs (34.2\% and 19.8\%, respectively) (Table 5.1).

### 5.1.3. Asked about smoking tobacco by an HCP

Among smokers who have visited an HCP during the previous 12 months, $40.5 \%$ were asked about their history of tobacco smoking. The proportion asked about tobacco smoking by the HCP among men smokers (41.6\%) is higher than that among women smokers (17.9\%). By age group, the 65+ years group has the highest proportion of those who were asked by an HCP about smoking (49.1\%). There is no substantial difference in this regard between the urban and rural populace (Table 5.1).

### 5.1.4. Advised to quit by an HCP

Approximately one third of all smokers (34.6\%) ever received advice to quit smoking by an HCP. The rate of getting advice from an HCP is higher among men smokers (35.7\%) than among women smokers (13.0\%) (Table 5.1 and Figure 5.1).

Table 5.1: Percentage of current smokers $\geq 15$ years old who made a quit attempt and received health care provider advice in the past 12 months, by selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking cessation and health care seeking behavior |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Made quit attempt ${ }^{1}$ | Visited a HCP ${ }^{1,2}$ | Asked by HCP if a smoker ${ }^{2,3}$ | Advised to quit by $\mathbf{H C P}^{2,3}$ |
|  | Percentage(95\% CI) |  |  |  |
| Overall | 30.4 (26.8, 34.2) | 30.2 (26.5, 34.2) | 40.5 (34.6, 46.6) | 34.6 (29.2, 40.5) |
| Gender |  |  |  |  |
| Male | 29.8 (26.2, 33.7) | 30.0 (26.2, 34.0) | 41.6 (35.7, 47.8) | 35.7 (30.3, 41.6) |
| Female | 44.6 (35.9, 53.7) | 36.6 (27.9, 46.2) | 17.9 (9.0, 32.4) | 13.0 (5.6, 27.2) |
| Age (years) |  |  |  |  |
| 15-24 | 36.5 (30.3, 43.3) | 21.4 (16.3, 27.7) | 31.6 (21.6, 43.5) | 27.2 (17.3, 39.8) |
| 25-44 | 28.8 (25.0, 33.0) | 29.2 (25.0, 33.7) | 38.8 (30.9, 47.4) | 32.3 (25.6, 39.7) |
| 45-64 | 30.1 (25.3, 35.3) | 34.9 (29.9, 40.3) | 44.2 (37.1, 51.4) | 38.5 (31.5, 46.1) |
| 65+ | 25.7 (18.9, 34.0) | 43.9 (35.4, 52.9) | 49.1 (38.3, 59.9) | 43.8 (32.4, 55.9) |
| Residence |  |  |  |  |
| Urban | 35.9 (30.0, 42.2) | 28.7 (23.9, 34.0) | 42.1 (34.4, 50.2) | 35.6 (29.2, 42.6) |
| Rural | 25.6 (21.3, 30.4) | 31.6 (26.2, 37.6) | 39.2 (30.9, 48.1) | 33.9 (25.9, 42.9) |
| Education Level |  |  |  |  |
| Less than primary school completed | 23.7 (19.8, 28.1) | 37.7 (32.7, 43.0) | 42.3 (34.2, 51.0) | 34.7 (27.3, 42.9) |
| Primaryschool completed | 27.8 (23.2, 33.0) | 28.2 (23.0, 34.1) | 35.4 (25.0, 47.3) | 29.8 (20.5, 41.2) |
| Secondary school completed | 32.7 (27.2, 38.7) | 24.6 (19.3, 30.7) | 32.8 (22.7, 44.9) | 30.1 (20.3, 42.2) |
| High school completed | 36.7 (31.2, 42.5) | 27.7 (22.4, 33.7) | 47.7 (39.8, 55.6) | 43.0 (35.2, 51.2) |
| College or University + | 39.4 (29.8, 50.0) | 38.6 (28.9, 49.3) | 48.6 (36.2, 61.2) | 38.3 (26.0, 52.4) |
| Occupation/Work status |  |  |  |  |
| Employed | 34.4 (29.4, 39.8) | 28.8 (23.9, 34.2) | 37.2 (31.0, 43.9) | 32.6 (26.6, 39.4) |
| Self-employed | 26.4 (22.6, 30.6) | 31.7 (27.1, 36.7) | 43.5 (35.0, 52.5) | 36.1 (28.2, 44.9) |
| Students | 39.7 (28.3, 52.2) | 19.8 (10.8, 33.5) | -- | -- |
| Home makers | 46.8 (32.7, 61.4) | 34.2 (22.3, 48.5) | -- | -- |
| Un-employed | 27.2 (19.7, 36.2) | 31.6 (24.6, 39.5) | 48.6 (33.1, 64.4) | 45.0 (29.6, 61.4) |

${ }^{1}$ Among current smokers and former smokers who have been abstinent for less than 12 months.
${ }^{2} \mathrm{HCP}=$ Health Care Provider.
${ }^{3}$ Among current smokers and former smokers who have been abstinent for less than 12 months, and who visited a HCP during the past 12 months.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

### 5.2. Cessation methods

The cessation methods used by smokers (current tobacco smokers and recent quitters for <12 months) covered in the GATS Indonesia are - counselling/advice, other prescription medications, quitting without assistance and other methods including traditional methods (herbal/medicinal plants), switching to smokeless tobacco, etc.

Table 5.2 shows that a higher proportion of smokers reported quitting on their own/quitting without assistance ( $70.7 \%$ ); most of them had used some methods to quit smoking on their own in the past 12 months. This is followed by other methods ( $13.6 \%$ ) and counselling ( $7.0 \%$ ). The cessation method that was least used was prescription medication ( $0.4 \%$ ). More urban than rural residents tried other quit methods ( $16.9 \%$ and $9.7 \%$, respectively). No significant difference was noticed in the proportion of any of the cessation methods used by any other demographic characteristic, except among the college or university group, who made the maximum use of counselling/advice $(17.9 \%$ as against the next highest proportion of $8.4 \%$ among high school graduates).

Table 5.2: Percentage of current smokers $\geq 15$ years old who attempted to quit smoking in the past 12 months, by cessation methods used and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smoking cessation and health care seeking behavior ${ }^{1}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Counseling / Advice | Other Prescription Medication | Quit without assistance | Othert |
| Overall | 7.0 (4.1, 11.6) | 0.4 (0.1, 2.2) | 70.7 (63.9, 76.7) | 13.6 (9.4, 19.3) |
| Gender |  |  |  |  |
| Male | 6.6 (4.0, 10.8) | 0.4 (0.1, 2.4) | 70.7 (63.9, 76.8) | 14.1 (9.7, 20.1) |
| Female | 13.1 (4.9, 30.6) | 0.0 | 71.1 (54.0, 83.8) | 6.6 (2.6, 15.8) |
| Age (years) |  |  |  |  |
| 15-24 | $6.4(2.8,14.0)$ | 0.0 | 74.7 (65.0, 82.4) | 11.9 (6.1, 21.7) |
| 25-44 | 6.6 (3.6, 11.8) | 0.6 (0.1, 4.1) | 70.8 (63.2, 77.4) | 15.4 (10.5, 22.0) |
| 45-64 | 7.8 (4.2, 14.1) | 0.6 (0.1, 2.3) | 65.9 (56.6, 74.2) | 9.8 (5.6, 16.8) |
| 65+ | 9.1 (3.5, 21.5) | 0.0 | 78.2 (65.1, 87.3) | 24.6 (13.2, 41.2) |
| Residence |  |  |  |  |
| Urban | 8.5 (4.4, 15.9) | 0.8 (0.1, 4.0) | 65.6 (55.7, 74.3) | 16.9 (10.5, 25.9) |
| Rural | $5.2(2.2,11.7)$ | 0.0 | 77.0 (67.8, 84.1) | 9.7 (5.6, 16.5) |
| Education Level |  |  |  |  |
| Less than primary school completed | 6.9 (3.5, 13.3) | 0.0 | 70.3 (61.1, 78.1) | 10.5 (5.5, 19.3) |
| Primaryschool completed | 3.8 (1.5, 9.4) | 0.3 (0.0, 1.9) | 70.7 (61.1, 78.8) | 11.5 (6.9, 18.5) |
| Secondary school completed | $5.9(2.5,13.1)$ | 0.4 (0.1, 2.9) | 67.8 (56.6, 77.3) | 16.3 (9.8, 26.0) |
| High school completed | $8.4(4.3,15.6)$ | 1.0 (0.1, 6.9) | 73.4 (64.8, 80.6) | 15.0 (8.9, 24.1) |
| College or University + | 17.0 (8.0, 32.8) | 0.0 | 70.4 (56.5, 81.4) | 17.2 (7.9, 33.5) |
| Occupation/Work status |  |  |  |  |
| Employed | 6.9 (3.5, 13.1) | 0.4 (0.1, 3.0) | 70.8 (62.0, 78.3) | 12.3 (7.7, 19.3) |
| Self-employed | 7.8 (4.6, 12.9) | 0.6 (0.1, 2.4) | 67.4 (58.9, 74.9) | 13.9 (8.9, 21.1) |
| Students | 3.2 (0.4, 20.6) | 0.0 | 75.2 (50.9, 89.9) | 14.4 (5.5, 32.5) |
| Home makers | -- | -- | -- | -- |
| Un-employed | $6.4(2.3,16.5)$ | 0.0 | 85.1 (72.9, 92.4) | 22.7 (10.6, 42.1) |

${ }^{1}$ Among current smokers and formersmokers who have been abstinent forless than 12 months.
${ }^{2} \mathrm{HCP}=$ health care provider.
${ }^{3}$ Among current smokers and former smokers who have been abstinent forless than 12 months, and who visited a HCP during the past 12 months.
† Others include: Traditional medicines (example herbal/medicinal plants), switching to smokeless tobacco or anything else.
Note: Nicotine Replacement Therapy, such as patch or gum is not included due to translation issues of the question on NRT.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

### 5.3. Interest in quitting smoking and smokeless tobacco

"Interest in quitting smoking" in GATS is defined as current tobacco smokers who are planning to quit or thinking about quitting smoking. In GATS Indonesia, the information was collected under five major categories of interest in quitting smoking - planning to quit within the next month, thinking about quitting within the next 12 months, will quit some day but not in the next 12 months, not interested in quitting, and do not know. Table 5.3 presents data on these five categories of interest in quitting smoking by various demographic characteristics.

Among all smokers, only $5.1 \%$ of current smokers reported planning to quit within the next month, and $5.4 \%$ reported planning to quit within the next 12 months. Nearly one third of smokers reported that they planned to quit, but not within the next 12 months (38.3\%) or were not interested in quitting (31.3\%). Nearly one fifth (19.9\%) of smokers were in the "do not know" category. Within the category of planning to quit in the next month and planning to quit within the next 12 months, there is not much difference among different sociodemographic characteristics (Table 5.3). The proportion of smokers who want to quit (either quit within within the next month, or within the next year, or quit some day but not within the next one year) is almost similar for both men and women (Table 5.3 and Figure 5.1).

Among current smokers who are planning to quit within the next month, there are no significant differences by gender, age, residence and occupation. However, current smokers with a college/university level of education are more likely to quit in the next one month than all other educational levels. Among current smokers who are planning to quit within the next 12 months, there are no significant differences by various demographic characteristics. However, students showed the least inclination to quit smoking in the next 12 months. People in the $65+$ group, and those with less than prmary level of education, showed the least inclination to quit smoking at all (Table 5.3).

Figure. 5.1. Percentage of quit attempts and advice by health-care providers to quit smoking, by gender - GATS Indonesia, 2011


Note: All figures are in percentages.

Table 5.3: Percentage distribution of current smokers $\geq 15$ years old by interestin quitting smoking and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Interest in Quitting Smoking ${ }^{1}$ |  |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Planning to Quit Within Next Month | Thinking About Quitting Within Next 12 Months | Will Quit <br> Someday, But Not in the Next | Not Interested in Quitting | Don't Know |  |
|  | Percentage(95\% CI ) |  |  |  |  |  |
| Overall | 5.1 (3.7, 7.0) | 5.4 (4.1, 7.1) | 38.3 (33.1, 43.8) | 31.3 (26.3, 36.7) | 19.9 (14.9, 26.0) | 100 |
| Gender |  |  |  |  |  |  |
| Male | 5.1 (3.7, 7.0) | 5.4 (4.1, 7.2) | 38.4 (33.2, 43.9) | 31.5 (26.4, 37.0) | 19.6 (14.7, 25.7) | 100 |
| Female | 4.3 (1.9, 9.5) | 5.3 (2.4, 11.6) | 36.1 (24.1, 50.3) | 26.7 (18.5, 36.8) | 27.6 (16.5, 42.3) | 100 |
| Age (years) |  |  |  |  |  |  |
| 15-24 | 7.4 (4.7, 11.4) | $4.4(2.4,7.7)$ | 39.7 (32.9, 47.1) | 25.2 (19.0, 32.6) | 23.3 (16.5, 31.9) | 100 |
| 25-44 | 4.4 (3.0, 6.4) | 5.0 (3.7, 6.9) | 41.1 (35.2, 47.2) | 31.0 (25.3, 37.2) | 18.6 (13.6, 24.7) | 100 |
| 45-64 | 4.7 (2.6, 8.3) | $6.7(4.5,10.0)$ | 36.2 (30.0, 43.0) | 32.1 (26.5, 38.2) | 20.3 (14.8, 27.2) | 100 |
| 65+ | 5.1 (2.7, 9.5) | 5.8 (3.0, 11.0) | $21.9(16.3,28.8)$ | 47.9 (39.2, 56.7) | 19.2 (12.8, 27.7) | 100 |
| Residence |  |  |  |  |  |  |
| Urban | 4.7 (3.0, 7.2) | 5.8 (4.3, 7.8) | 40.1 (32.6, 48.2) | 23.8 (17.2, 31.9) | 25.6 (17.4, 35.9) | 100 |
| Rural | 5.4 (3.4, 8.4) | 5.1 (3.2, 8.0) | 36.8 (29.8, 44.4) | 37.7 (30.6, 45.3) | 15.1 (9.6, 22.9) | 100 |
| Education Level |  |  |  |  |  |  |
| Less than primaryschool completed | 3.5 (1.9, 6.4) | 5.2 (3.5, 7.6) | 27.5 (22.1, 33.6) | 44.1 (37.0, 51.5) | 19.7 (13.5, 28.0) | 100 |
| Primary school completed | 5.3 (3.4, 8.0) | 5.0 (2.9, 8.2) | 34.4 (28.1, 41.4) | 35.5 (28.6, 43.0) | 19.9 (14.1, 27.2) | 100 |
| Secondary school completed | 6.2 (3.9, 9.7) | 5.2 (2.9, 8.9) | 40.1 (33.2, 47.4) | 26.2 (19.8, 33.7) | 22.4 (16.3, 30.1) | 100 |
| High school completed | 4.0 (2.3, 6.7) | 6.6 (4.7, 9.2) | 50.8 (42.7, 58.7) | 20.3 (14.9, 27.2) | 18.4 (11.9, 27.2) | 100 |
| College or University + | 11.1 (6.6, 18.1) | $5.1(2.5,10.1)$ | 50.2 (37.8, 62.6) | 14.9 (9.3, 23.1) | 18.6 (11.0, 29.7) | 100 |
| Occupation/Work status |  |  |  |  |  |  |
| Employed | $5.4(3.5,8.1)$ | 5.6 (4.0, 7.7) | 39.7 (33.1, 46.6) | 25.4 (20.1, 31.6) | 23.9 (16.5, 33.3) | 100 |
| Self-employed | 4.3 (2.8, 6.5) | 5.7 (4.0, 8.2) | 37.6 (31.4, 44.3) | 35.9 (29.6, 42.8) | 16.4 (12.1, 21.9) | 100 |
| Students | 14.8 (7.9, 25.9) | 2.2 (0.6, 7.8) | 43.0 (29.5, 57.6) | 19.9 (10.4, 34.9) | 20.0 (10.9, 33.9) | 100 |
| Home makers | 2.8 (0.4, 17.9) | $6.5(2.1,18.5)$ | 31.8 (18.3, 49.3) | 32.9 (19.6, 49.5) | 26.0 (13.5, 44.1) | 100 |
| Un-employed | 4.3 (2.3, 7.9) | 3.5 (1.5, 8.2) | 35.3 (27.3, 44.2) | 35.5 (27.2, 44.8) | $21.4(14.5,30.5)$ | 100 |

[^9]
## 6. Second-hand smoke

In Indonesia, educational and health-care facilities are smoke-free by law. There is also prohibition in some provinces and cities in other public places, such as restaurants and public transport. The Global Youth Tobacco Survey (GYTS) shows that more than $70 \%$ students were exposed to second-hand smoke (SHS) in public places and the Global Health Professions Students Survey (GHPSS) results show that more than $70 \%$ of third-year medical and dental students were similarly exposed. However, there were no data on SHS exposure in Indonesia among the adult population in public places, including workplaces, before this survey.

This chapter measures exposure to SHS in indoor workplaces, homes and in certain public places such as government buildings, health-care facilities, restaurants and public transport.

## Key findings

- Among those who work indoors, over half were exposed to SHS at indoor workplaces in the 30 days preceding the survey.
- Nearly four in five respondents were exposed to SHS at home.
- Nearly four in five of all people were exposed to SHS in restaurants.


### 6.1. SHS exposure in indoor workplaces

Table 6.1 gives the prevalence and the estimated number (in thousands) of adults exposed to SHS in indoor workplaces over the preceding 30 days.

### 6.1.1. Prevalence of SHS exposure in indoor workplaces

Exposure to SHS in indoor workplaces was measured among adults aged 15 years and above who usually work indoors, outside of their homes. Table 6.1 shows that overall, $51.3 \%$ of workers are exposed to SHS at indoor workplaces. This figure reduces to $45.6 \%$ among non-smokers. Exposure to SHS varies across different demographic characteristics of workers, as given in Table 6.1. More men workers are exposed to SHS than women workers, both among the overall population and among non-smokers. Workers in rural areas have a higher proportion of exposure than urban workers. By educational level, secondary school graduates have the highest proportion of exposure to SHS, both overall and among non-smokers.

Figure. 6.1. Exposure to second-hand smoke at workplace, home and various public places by gender - GATS Indonesia, 2011


Note: All figures are in percentages.

Table 6.1: Percentage and number of adults $\geq 15$ years old who work indoors and are exposed to tobacco smoke at work, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults Exposed to Tobacco Smoke at Work ${ }^{1}$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Overall |  | Non-smokers |  |
|  | Percentage (95\% CI) | Number in thousands | Percentage (95\% CI) | Number in thousands |
| Overall | 51.3 (45.8, 56.8) | 14,557.9 | 45.6 (39.7, 51.7) | 8,314.5 |
| Gender |  |  |  |  |
| Male | 58.0 (51.6, 64.2) | 9,851.4 | 52.8 (43.6, 61.8) | 3,683.3 |
| Female | 41.4 (35.4, 47.5) | 4,706.5 | 41.2 (35.3, 47.4) | 4,631.2 |
| Age (years) |  |  |  |  |
| 15-24 | 45.9 (37.3, 54.7) | 2,510.7 | 42.8 (32.8, 53.4) | 1,680.6 |
| 25-44 | 50.8 (45.0, 56.6) | 8,560.7 | 45.7 (39.7, 51.9) | 4,883.2 |
| 45-64 | 57.5 (49.5, 65.2) | 3,327.2 | 49.0 (38.8, 59.3) | 1,691.3 |
| 65+ | -- | -- | -- | -- |
| Residence |  |  |  |  |
| Urban | 47.8 (41.2, 54.5) | 10,313.2 | 44.0 (36.8, 51.5) | 6,125.7 |
| Rural | 62.4 (55.7, 68.7) | 4,244.7 | 51.0 (43.2, 58.7) | 2,188.8 |
| Education Level |  |  |  |  |
| Less than primaryschool completed | 63.4 (50.0, 74.9) | 1,013.7 | 47.7 (32.8, 62.9) | 468.2 |
| Primary school completed | 55.8 (44.1, 66.9) | 1,655.7 | 45.3 (32.3, 59.1) | 770.3 |
| Secondary school completed | 62.7 (54.0, 70.6) | 2,838.1 | 60.5 (49.2, 70.7) | 1,499.8 |
| High school completed | 47.9 (41.4, 54.5) | 5,585.1 | 42.8 (34.7, 51.3) | 3,176.8 |
| College or University + | 45.6 (37.9, 53.5) | 3,465.3 | 42.8 (34.5, 51.5) | 2,399.4 |
| Occupation/Work status |  |  |  |  |
| Employed | 48.3 (42.7, 53.9) | 10,924.7 | 43.7 (37.6, 50.1) | 6,606.9 |
| Self-employed | 66.4 (57.6, 74.2) | 3,415.4 | 58.4 (48.3, 67.9) | 1,521.5 |
| Students | NA | NA | NA | NA |
| Home makers | NA | NA | NA | NA |
| Un-employed | NA | NA | NA | NA |

${ }^{1}$ In the past 30 days. Among those respondents who work outside of the home who usually work indoors or both indoors and outdoors.
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.
$N A=$ not applicable.

### 6.1.2. Number of workers exposed to SHS in indoor workplaces

Table 6.1 shows that, overall, 14.6 million workers are exposed to SHS in the indoor areas of their workplaces. The estimated number of men workers exposed to SHS in indoor workplaces ( 9.9 million) is nearly twice that of women workers ( 4.7 million). Classified by age group, the maximum number of adult workers exposed to SHS in indoor workplaces (8.6 million) belongs to the 25-44 years age group. The estimated number of workers living in urban areas who are exposed to SHS in indoor workplaces ( 10.3 million) is more than twice that of those living in rural areas ( 4.2 million). Classified by educational level, high school graduates are the most exposed to SHS in indoor workplaces ( 5.6 million). By occupational category, exposure varies from 3.4 million (self-employed) to 10.9 million (employed).

Among non-smoking workers, the estimated number exposed to SHS at indoor workplaces is 8.3 million. The number of non-smoking women workers who are exposed to SHS in indoor workplaces ( 4.6 million) is more than that of non-smoking men workers ( 3.7 million) similarly exposed. The largest number of non-smoking workers who are exposed to SHS in indoor workplaces are in the age group of 25-44 years ( 4.9 million).

The estimated number of urban non-smoking workers who are exposed to SHS in indoor workplaces ( 6.1 million) is much more than that of the corresponding category in rural areas ( 2.2 million). By occupational category, the estimated number of employed non-smokers who are exposed to SHS in indoor workplaces ( 6.6 million) is much higher than the number of self-employed non-smokers (1.5 million).

### 6.2. SHS exposure at home

This section provides the prevalence and number (in thousands) of SHS exposure at home in the past 30 days by smoking status and selected demographic categories.

### 6.2.1. Prevalence of SHS exposure at home

Overall, $78.4 \%$ of adults aged 15 years and above were exposed to SHS at homes. Exposure at home does not differ substantially by gender or age group. People living in rural areas have a higher prevalence of exposure to SHS at home ( $88.2 \%$ ) than those who live in urban areas (68.5\%). Adults with a lower educational level (less than primary school, primary school) have the highest prevalence of exposure to SHS at home ( $84.5 \%$ ) and those with college and university level of education have the lowest (57.2\%). By occupation, self-employed persons have the highest prevalence of exposure at home ( $85.3 \%$ ) of all the occupational categories.

The overall prevalence of exposure to SHS in homes among non-smokers is $71.7 \%$. The prevalence of SHS exposure at home for non-smokers is more among women non-smokers (75.0\%) as compared to men (62.0\%). Non-smokers living in rural areas are more exposed to SHS at home ( $83.5 \%$ ) than those living in urban areas ( $60.8 \%$ ). Adult non-smokers with the highest educational level (college and university level) have the lowest exposure to SHS at home (49.2\%) as compared to the peple with less than primary level (78.1\%) and primary level of education (79.4\%).

### 6.2.2. Number of adults exposed to SHS at home

Overall, 133.3 million adults aged 15 years and over are exposed to SHS at home. Considered by gender, the estimated number of men exposed to SHS at home ( 69.1 million) is higher than the number of women ( 64.1 million). Classified by age groups, adults aged 25-44 have the highest number of persons who are exposed to SHS at home ( 59.4 million). Age groups 15-24 years and 45-64 years have simliar numbers of exposure of about 32 million. The estimated number of adults living in rural areas who are exposed to SHS at home ( 75.3 million) is higher than among those living in urban areas ( 58.0 million).

Classified by educational level, the estimated number of adults who are exposed to SHS at home is highest among those with a primary level of education ( 39.1 million) and is lowest among those with college and university-level education (6.7 million). By occupational category, unemployed adults have the smallest number of persons who are exposed to SHS at home (about 9.9 million).

Table 6.2: Percentage and number of adults $\geq 15$ years old who are exposed to tobacco smoke at home, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults exposed to tobacco smoke at home at least monthly |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Overall |  | Non-smokers |  |
|  | Percentage (95\% CI) | Number in thousands | Percentage (95\% CI) | Number in thousands |
| Overall | 78.4 (75.1, 81.4) | 133,292.1 | 71.7 (67.7, 75.4) | 79,254.3 |
| Gender |  |  |  |  |
| Male | 81.4 (78.1, 84.3) | 69,155.7 | 62.0 (56.7, 67.0) | 17,250.8 |
| Female | 75.4 (71.7, 78.9) | 64,136.4 | 75.0 (71.1, 78.4) | 62,003.5 |
| Age (years) |  |  |  |  |
| 15-24 | 80.0 (76.1, 83.3) | 32,901.1 | 76.5 (71.9, 80.6) | 23,229.0 |
| 25-44 | 77.5 (73.7, 80.9) | 59,445.5 | 69.4 (64.6, 73.8) | 33,127.1 |
| 45-64 | 79.7 (75.7, 83.2) | 32,074.8 | 71.7 (66.8, 76.1) | 17,440.1 |
| 65+ | 74.4 (68.9, 79.2) | 8,870.7 | 67.1 (60.3, 73.2) | 5,458.1 |
| Residence |  |  |  |  |
| Urban | 68.5 (62.8, 73.7) | 57,971.5 | 60.8 (54.5, 66.7) | 34,886.5 |
| Rural | 88.2 (84.4, 91.2) | 75,320.6 | 83.5 (78.3, 87.6) | 44,367.8 |
| Education Level |  |  |  |  |
| Less than primary school completed | 84.5 (80.4, 87.8) | 31,529.2 | 78.1 (73.5, 82.1) | 17,963.1 |
| Primary school completed | 84.5 (81.3, 87.2) | 39,182.1 | 79.4 (75.3, 83.0) | 23,072.0 |
| Secondary school completed | 79.0 (75.3, 82.3) | 28,024.0 | 73.5 (68.9, 77.6) | 17,689.4 |
| High school completed | 71.3 (66.1, 76.1) | 27,864.1 | 63.1 (57.1, 68.8) | 16,351.7 |
| College or University + | $57.2(49.4,64.6)$ | 6,673.3 | 49.2 (40.4, 58.0) | 4,158.7 |
| Occupation/Work status |  |  |  |  |
| Employed | 74.0 (68.6, 78.7) | 35,768.8 | 62.2 (55.8, 68.3) | 15,980.9 |
| Self-employed | 85.3 (82.3, 87.9) | 49,938.0 | 75.5 (70.5, 79.8) | 21,891.8 |
| Students | 72.5 (66.8, 77.6) | 10,001.3 | 70.9 (64.5, 76.6) | 8,370.3 |
| Home makers | 76.3 (71.8, 80.2) | 27,617.9 | 75.9 (71.4, 79.9) | 26,738.3 |
| Un-employed | 76.2 (70.7, 81.0) | 9,926.8 | 71.0 (63.9, 77.2) | 6,273.1 |

Among non-smokers, the estimated number exposed to SHS at home is 79.3 million. The number of non-smoker women who are exposed to SHS at home ( 62.0 million) is much higher than the men counterparts ( 17.3 million). The pattern of exposure to SHS at home among non-smokers follows a similar pattern as observed for the overall adult population. By age groups, non-smokers aged 25-44 have the highest number of persons exposed to SHS at home ( 33.1 million). The estimated number of adults living in rural areas who are exposed to SHS at home ( 44.4 million) is higher than those living in urban areas ( 34.9 million). Classified by educational levels, the estimated number of adults who are exposed to SHS at home is highest among those with primary level of education ( 23.0 million) and lowest among those at college and university level ( 4.2 million). By occupational category, the lowest number of persons who are exposed to SHS at home are unemployed adults (about 6.3 million).

### 6.3. Exposure to SHS in public places

Common sites of exposure to SHS in public places are government buildings, health-care facilities, restaurants and public transport. Table 6.3 presents the prevalence of SHS exposure for the overall populace and non-smokers among adults 15 years and above in these public places in the 30 days preceding the survey.

### 6.3.1. Prevalence of exposure to SHS in government buildings

Overall prevalence of exposure to SHS in government buildings for adults 15 years and above is $63.4 \%$. The prevalence of exposure to SHS among men (69.4\%) is higher than that among women (55.4\%). The age groups $25-44$ years and 45-64
years have similar prevalences of exposure, of about $66 \%$. Adults living in rural areas have a higher prevalence of exposure ( $71.2 \%$ ) than those living in urban areas (58.6\%). The prevalence rate is similar across all educational categories. By occupational category, the student group has the lowest exposure (41.5\%).

Among non-smokers, overall, $57.9 \%$ are exposed to SHS in government buildings. Men non-smokers are exposed to SHS more often than women ( $62.6 \%$ and $55.7 \%$, respectively). By age group, non-smokers aged $25-44$ years have the highest prevalence of exposure ( $61.7 \%$ ). Non-smokers living in rural areas have a higher prevalence of exposure to SHS than those who live in urban areas. The prevalence rate for non-smokers is similar across all educational categories. By occupation, students have the least prevalence of exposure (46.5\%).

### 6.3.2. Prevalence of exposure to SHS at health-care facilities

Table 6.3 reveals that $17.9 \%$ of overall adults are exposed to SHS at health-care facilities. By gender, men have a higher prevalence of exposure to SHS (20.1\%) than women (16.5\%). The age groups 15-24 years and 45-64 years have a similar prevalence of exposure of about $19.0 \%$, which is higher than that for the other two age groups. Adults living in urban areas have a higher prevalence of exposure (20.0\%) than those who live in rural areas (15.1\%).

Among non-smokers, the overall prevalence rate of SHS exposure at health-care facilities is $16.8 \%$. By gender, men and women non-smokers have a similar prevalence of exposure of about $17.0 \%$. The $45-64$ years age group has the highest prevalence of exposure at health-care facilities (20.0\%). Urban dwellers have a higher prevalence (19.0\%) than rural dwellers (13.8\%).

### 6.3.3. Prevalence of exposure to SHS in restaurants

Overall exposure to SHS at restaurants for adults aged 15 years and above is $85.4 \%$. The prevalence rate reported for men ( $90.8 \%$ ) is higher than that for women ( $76.1 \%$ ). By age group, non-smokers aged $15-24$ years and $25-44$ years have the highest prevalence of exposure to SHS at restaurants (about 86\%). Adults living in urban areas have a higher prevalence of exposure (87.4\%) than those who live in rural areas (81.7\%).

The prevalence of SHS exposure at restaurants for non-smokers is $80.5 \%$. Men non-smokers have a higher prevalence of exposure than women ( $87.9 \%$ and $76.0 \%$, respectively). Prevalence of exposure to SHS at restaurants is higher among nonsmokers aged 15-24 years and 25-44 years (above 80\%) than other age groups. Non-smokers living in urban areas have a higher prevalence of exposure (83.5\%) than those who live in rural areas (73.7\%).

### 6.3.4. Prevalence of exposure to SHS in public transport

Table 6.3 shows that overall, $70.0 \%$ of adults are exposed to SHS in public transport. By gender, men have a higher prevalence of exposure to SHS in public transport ( $79.0 \%$ ) than women ( $62.4 \%$ ). The $15-24$ years age group has the highest prevalence of exposure (77.8\%) among all age groups. Adults living in rural and urban areas have similar prevalence levels of exposure of about $70 \%$. By occupation, the student group has the highest prevalence of exposure to SHS in public transport (81.0\%).

The overall prevalence rate of exposure to SHS in public transport for non-smokers is $65.8 \%$. Men non-smokers have a higher prevalence of exposure to SHS in public transport ( $78.4 \%$ ) than women non-smokers ( $62.0 \%$ ). The prevalence of exposure is higher among non-smokers aged $15-24$ years ( $76.0 \%$ ) than other age groups. Non-smokers living in rural areas and urban areas have similar levels of exposure of about $65 \%$.

Table 6.3. Percentage of overall adults 15 years and above who visited various public places in the past 30 days and were exposed to tobacco smoke, by smoking status and selected demographic characteristics - GATS Indonesia, 2011

| Demographic characteristics | Exposure to tobacco smoke ${ }^{1}$ in... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Government buildings | Health-care facilities | Restaurants | Public transportation |
|  | Percentage (95\% Cl) |  |  |  |
| Overall | 63.4 (58.5, 68.1) | 17.9 (15.0, 21.1) | 85.4 (80.9, 88.9) | 70.0 (65.6, 74.0) |
| Gender |  |  |  |  |
| Men | 69.4 (63.0, 75.1) | 20.1 (16.2, 24.7) | 90.8 (87.3, 93.5) | 79.0 (74.7, 82.8) |
| Women | 55.4 (49.7, 61.0) | 16.5 (13.7, 19.8) | 76.1 (69.5, 81.7) | 62.4 (56.6, 67.8) |
| Age (years) |  |  |  |  |
| 15-24 | 52.5 (43.5, 61.3) | 14.8 (11.1, 19.6) | 85.7 (81.7, 88.9) | 77.8 (72.0, 82.7) |
| 25-44 | 66.7 (61.7, 71.3) | 19.5 (16.3, 23.0) | 86.5 (81.2, 90.5) | 70.6 (65.7, 75.1) |
| 45-64 | 66.3 (59.2, 72.7) | 19.2 (14.4, 25.0) | 83.7 (76.8, 88.8) | $62.2(56.7,67.4)$ |
| 65+ | 47.6 (30.1, 65.6) | 10.3 (6.0, 17.3) | $68.2(53.2,80.2)$ | 52.8 (41.8, 63.5) |
| Residence |  |  |  |  |
| Urban | 58.6 (52.3, 64.6) | 20.0 (15.8, 24.9) | 87.4 (83.8, 90.2) | 70.2 (64.5, 75.3) |
| Rural | 71.2 (63.3, 78.0) | 15.1 (11.7, 19.3) | $81.7(70.3,89.4)$ | 69.6 (62.6, 75.7) |
| Educational level |  |  |  |  |
| Less than primary school comple | 64.2 (54.4, 72.9) | 15.2 (11.3, 20.2) | 75.5 (65.6, 83.3) | $60.8(54.3,66.9)$ |
| Primary school completed | 63.0 (53.2, 71.8) | 17.5 (13.3, 22.7) | 89.5 (83.7, 93.4) | 65.7 (58.6, 72.2) |
| Secondary school completed | 61.9 (52.7, 70.4) | 18.2 (13.7, 23.8) | 85.4 (79.4, 89.9) | 74.4 (68.9, 79.3) |
| High school completed | $61.8(55.9,67.3)$ | 17.4 (13.9, 21.5) | 84.1 (79.0, 88.2) | 75.1 (68.9, 80.5) |
| College \& university + | 68.1 (60.3, 75.0) | 24.4 (17.2, 33.5) | 88.4 (81.0, 93.2) | 69.9 (61.4, 77.1) |
| Occupation/work status |  |  |  |  |
| Employed | 66.7 (60.1, 72.6) | 18.8 (15.1, 23.2) | 88.0 (83.5, 91.4) | 72.7 (67.4, 77.5) |
| Self-employed | 68.8 (60.9, 75.8) | 18.5 (13.9, 24.3) | 87.6 (83.1, 91.1) | 71.5 (66.7, 75.9) |
| Students | 41.5 (29.2, 54.9) | 17.5 (11.5, 25.5) | 84.1 (77.2, 89.2) | 81.0 (73.2, 87.0) |
| Home-makers | 56.4 (48.2, 64.3) | 17.4 (14.0, 21.5) | 71.2 (61.0, 79.6) | $61.1(54.0,67.8)$ |
| Unemployed | 48.5 (33.9, 63.2) | 13.0 (8.3, 19.7) | 88.0 (79.1, 93.4) | 60.5 (51.1, 69.2) |

[^10]Table 6.3 (cont.). Percentage of non-smoker adults 15 years and above who visited various public places in the past 30 days and were exposed to tobacco smoke, by smoking status and selected demographic characteristics - GATS Indonesia, 2011

| Demographic characteristics | Exposure to tobacco smoke ${ }^{1}$ in... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Government buildings | Health-care facilities | Restaurants | Public transportation |
|  | Percentage (95\% Cl) |  |  |  |
| Non-smokers | 57.9 (53.0, 62.7) | 16.8 (14.1, 19.8) | 80.5 (75.3, 84.8) | 65.8 (60.7, 70.6) |
| Gender |  |  |  |  |
| Men | 62.6 (54.7, 69.9) | 17.5 (13.0, 23.3) | 87.9 (84.1, 90.9) | 78.4 (72.7, 83.2) |
| Women | 55.7 (49.9, 61.3) | 16.5 (13.7, 19.9) | 76.0 (69.2, 81.7) | 62.0 (56.1, 67.6) |
| Age (years) |  |  |  |  |
| 15-24 | 52.0 (43.3, 60.7) | 14.3 (10.5, 19.1) | 82.4 (77.6, 86.4) | 76.0 (69.4, 81.6) |
| 25-44 | 61.7 (56.4, 66.8) | 17.3 (14.6, 20.4) | 81.3 (75.0, 86.4) | 65.9 (60.1, 71.3) |
| 45-64 | 56.9 (48.1, 65.2) | 20.0 (14.9, 26.3) | 76.9 (67.6, 84.1) | 53.9 (47.1, 60.5) |
| 65+ | 43.2 (24.9, 63.6) | 12.0 (6.7, 20.6) | $62.2(43.9,77.7)$ | 47.0 (34.9, 59.5) |
| Residence |  |  |  |  |
| Urban | 53.5 (47.7, 59.2) | 19.0 (15.2, 23.4) | 83.5 (78.9, 87.2) | 66.5 (59.6, 72.7) |
| Rural | 65.7 (56.7, 73.7) | 13.8 (10.5, 17.9) | 73.7 (60.8, 83.6) | 64.7 (57.0, 71.8) |
| Educational level |  |  |  |  |
| Less than primary school comple | 50.5 (38.8, 62.1) | 15.1 (11.0, 20.4) | 60.2 (47.2, 71.9) | 50.6 (43.1, 58.1) |
| Primaryschool completed | 55.9 (45.0, 66.3) | 16.9 (12.7, 22.2) | 85.6 (75.9, 91.8) | 59.9 (52.4, 66.9) |
| Secondaryschool completed | 57.4 (46.3, 67.8) | 17.2 (13.1, 22.3) | 80.0 (73.4, 85.3) | 70.8 (64.1, 76.8) |
| High school completed | 56.6 (49.9, 63.1) | 15.8 (12.2, 20.2) | 79.1 (73.1, 84.1) | 73.0 (65.6, 79.3) |
| College \& university + | 65.7 (58.1, 72.7) | 20.9 (14.9, 28.4) | 85.4 (77.1, 91.1) | 67.8 (58.1, 76.2) |
| Occupation/work status |  |  |  |  |
| Employed | $64.2(57.6,70.2)$ | 15.1 (11.6, 19.3) | 84.7 (78.7, 89.3) | $69.4(62.8,75.3)$ |
| Self-employed | $55.2(44.3,65.6)$ | $17.4(12.9,23.1)$ | 79.8 (75.2, 83.8) | $60.8(54.5,66.7)$ |
| Students | 46.5 (32.1, 61.5) | 18.1 (11.9, 26.5) | $81.4(73.6,87.2)$ | 81.1 (72.5, 87.4) |
| Home-makers | 56.4 (48.2, 64.2) | 17.7 (14.2, 21.8) | 71.2 (60.8, 79.7) | 60.7 (53.3, 67.7) |
| Unemployed | 45.9 (29.2, 63.7) | 13.9 (8.3, 22.3) | 86.2 (74.1, 93.2) | 57.0 (45.6, 67.7) |

[^11]Table 6.3A. Percentage of overall adults 15 years and above who visited various public places in the past 30 days and were exposed to tobacco smoke, by smoking status and selected demographic characteristics - GATS Indonesia, 2011

| Demographic characteristics | Exposure to tobacco smoke ${ }^{1}$ in... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Universities | Schools and educational facilities | Religious <br> facilities | Bars/night clubs |
|  | Percentage (95\% Cl ) |  |  |  |
| Overall | 54.3 (46.6, 61.8) | 38.4 (33.7, 43.5) | 17.6 (13.9, 22.0) | 91.8 (75.1, 97.6) |
| Gender |  |  |  |  |
| Men | $57.2(46.9,67.0)$ | 45.9 (39.8, 52.1) | 21.2 (16.6, 26.6) | 91.3 (73.7, 97.5) |
| Women | 49.4 (41.0, 57.7) | 31.9 (26.9, 37.3) | 12.8 (9.8, 16.5) | - |
| Age (years) |  |  |  |  |
| 15-24 | 58.0 (45.7, 69.5) | 50.3 (42.8, 57.7) | 16.7 (12.6, 21.8) | - |
| 25-44 | 51.8 (42.1, 61.4) | 31.9 (27.2, 37.0) | 18.1 (14.2, 22.8) | - |
| 45-64 | 41.2 (25.1, 59.4) | 35.3 (28.1, 43.3) | 18.2 (14.2, 23.0) | - |
| 65+ | 0.0 | 17.0 (7.1, 35.5) | 15.3 (10.5, 21.6) | 0.0 |
| Residence |  |  |  |  |
| Urban | $52.5(43.7,61.1)$ | 36.2 (30.0, 43.0) | 14.0 (9.6, 19.8) | 91.3 (67.4, 98.2) |
| Rural | 59.2 (43.5, 73.3) | 41.5 (34.3, 49.0) | 21.4 (15.8, 28.4) | - |
| Educational level |  |  |  |  |
| Less than primary school comple | 0.0 | 26.0 (19.0, 34.5) | 18.1 (13.0, 24.7) | - |
| Primary school completed | - | 38.2 (31.8, 45.0) | 21.3 (15.7, 28.3) | - |
| Secondary school completed | - | 44.3 (37.3, 51.5) | 17.1 (13.3, 21.7) | - |
| High school completed | $60.2(50.8,69.0)$ | 33.6 (27.7, 40.2) | 14.5 (11.2, 18.7) | - |
| College \& university + | 45.9 (34.8, 57.5) | 42.7 (33.9, 52.0) | 14.7 (10.4, 20.4) | - |
| Occupation/work status |  |  |  |  |
| Employed | 55.1 (44.5, 65.1) | 41.6 (34.6, 49.0) | 17.6 (13.4, 22.7) | - |
| Self-employed | 43.6 (27.1, 61.5) | 34.1 (28.2, 40.5) | 21.1 (15.9, 27.5) | - |
| Students | 58.8 (46.8, 69.9) | 53.9 (44.7, 62.8) | 14.7 (10.1, 20.8) | - |
| Home-makers | - | 20.6 (15.6, 26.6) | 13.2 (9.5, 18.2) | - |
| Unemployed | 59.3 (35.8, 79.3) | 31.6 (20.3, 45.7) | 14.0 (9.3, 20.5) | - |

${ }^{1}$ Among all adults in the past 30 days

- Indicator estimate based on less than 25 unweighted cases and has been suppressed.

Table 6.3A (cont.). Percentage of non-smoker adults 15 years and above who visited various public places in the past 30 days and were exposed to tobacco smoke, by smoking status and selected demographic characteristics - GATS Indonesia, 2011

| Demographic characteristics | Exposure to tobacco smoke ${ }^{1}$ in... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Universities | Schools and educational facilities | Religious facilities | Bars/night clubs |
|  | Percentage (95\% CI) |  |  |  |
| Non-smokers | 55.4 (47.1, 63.4) | 36.5 (31.4, 41.9) | 13.9 (10.9, 17.5) | - |
| Gender |  |  |  |  |
| Men | 62.8 (49.9, 74.1) | 47.3 (39.7, 55.0) | 16.3 (12.6, 20.7) | - |
| Women | 49.0 (40.7, 57.4) | 31.9 (26.9, 37.4) | 12.7 (9.7, 16.5) | - |
| Age (years) |  |  |  |  |
| 15-24 | 62.7 (51.9, 72.4) | 47.9 (40.1, 55.8) | 14.9 (11.3, 19.3) | - |
| 25-44 | 42.8 (31.4, 55.1) | 29.7 (24.8, 35.1) | 13.6 (10.4, 17.6) | - |
| 45-64 | 41.1 (20.2, 65.8) | 30.3 (22.8, 39.0) | $14.1(10.6,18.6)$ | - |
| 65+ | 0.0 | - | 10.6 (6.7, 16.3) |  |
| Residence |  |  |  |  |
| Urban | 52.3 (42.8, 61.6) | 34.2 (27.6, 41.5) | 11.0 (7.5, 15.9) | - |
| Rural | 63.3 (46.4, 77.6) | 39.7 (32.1, 47.8) | 17.2 (12.7, 22.9) | - |
| Educational level |  |  |  |  |
| Less than primary school comple | - | 21.5 (13.8, 31.9) | 13.4 (9.0, 19.4) | - |
| Primary school completed | - | 36.3 (29.2, 44.0) | 16.1 (11.8, 21.6) | - |
| Secondary school completed | - | 43.0 (35.4, 50.9) | 15.0 (11.3, 19.5) | - |
| High school completed | 63.3 (53.6, 72.1) | 30.7 (24.6, 37.5) | $11.4(8.4,15.4)$ | - |
| College \& university + | 37.3 (25.2, 51.3) | 40.3 (31.9, 49.3) | 12.7 (8.8, 18.1) | - |
| Occupation/work status |  |  |  |  |
| Employed | 52.3 (39.7, 64.7) | 41.3 (33.6, 49.4) | 13.4 (10.5, 17.1) | - |
| Self-employed | - | 28.8 (22.7, 35.8) | 14.9 (10.7, 20.5) | - |
| Students | 63.2 (51.9, 73.2) | 52.8 (43.4, 62.1) | $14.0(9.3,20.5)$ | - |
| Home-makers | - | 20.5 (15.5, 26.6) | 13.3 (9.5, 18.4) | - |
| Unemployed | - | 24.3 (12.7, 41.5) | 13.1 (8.2, 20.4) | - |

[^12]
## 7. Economics

Indonesia is the fifth-largest tobacco-producing country in the world. The total production of cigarettes in 2011 was 258 billion sticks. Studies in 2010 estimated that 190260 Indonesians ( 100680 men and 89580 women) died Over a period of one year due to consumption of tobacco, which is about $12.4 \%$ of total deaths ( 1539288 ) from all causes. The total loss of productivity due to premature mortality and disabilities due to consumption of tobacco was 3533000 disability-adjusted life years (DALYs). The macroeconomic loss, which is estimated by applying the 2010 GDP per capita, i.e. IDR26 895061.00 (US\$ 3091.00) to the total loss of productivity ( 3533000 DALYs) is US\$ 10.92 billion or IDR 105.92 trillion

This chapter focuses on different brands of kretek cigarettes purchased by current smokers during their last purchase, the source of the last purchase and expenditure on kretek cigarettes.

## Key findings

- The most preferred cigarettes are kretek cigarettes.
- The preferred kretek brands are Gudang Garam, Djarum, Sampoerna, Dji Sam Soe and Tali Jagad.
- About 79.8\% of kretek cigarette smokers purchase cigarettes from kiosks.
- On an average, a kretek cigarette smoker spends IDR 198761.00 per month on purchasing kretek cigarettes.
- The average price of a pack (20 sticks) of kretek cigarettes is IDR 12 699.00.
- Of the average income in terms of GDP per capita, $4.71 \%$ was spent on the purchase of 100 packs of kretek cigarettes in the year 2011.


### 7.1. Last brand of kretek cigarettes purchased

During the survey, respondents were asked to report on the brand names of the last cigarettes purchased by them. The survey demonstrated that in Indonesia, the top five brands currently being used by adults are Gudang Garam (21.8\%), Djarum (18.8\%), Sampoerna (15.4\%), Dji Sam Soe (6.0\%) and Tali Jagad (5.3\%) (Table 7.1).

Table 7.1. Percentage of current kretek cigarette smokers 15 years and above, by last brand purchased and selected demographic characteristics - GATS Indonesia, 2011

| Demographic characteristics | Last kretek cigarette brand purchased |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Gudang Garam | Djarum | Sampoerna | Dji Sam Soe | Tali Jagad | Other |
|  | Percentage(95\% CI) |  |  |  |  |  |
| Overall | 21.8 (18.4, 25.5) | 18.8 (14.6, 23.9) | 15.4 (13.0, 18.0) | 6.0 (4.6, 7.7) | 5.3 (2.5, 11.0) | 32.8 (27.7, 38.3) |
| Gender |  |  |  |  |  |  |
| Men | 21.9 (18.5, 25.7) | 18.3 (14.2, 23.2) | 15.7 (13.3, 18.4) | 6.2 (4.8, 8.0) | $5.4(2.5,11.1)$ | 32.6 (27.5, 38.1) |
| Women | 17.9 (10.1, 29.7) | 33.4 (21.3, 48.2) | $5.4(2.4,11.7)$ | 0.0 | 3.9 (1.0, 13.2) | $39.4(26.8,53.5)$ |
| Age (years) |  |  |  |  |  |  |
| 15-24 | 12.1 (8.7, 16.5) | 20.7 (14.7, 28.3) | 24.0 (18.6, 30.3) | 2.8 (1.4, 5.5) | 4.1 (1.8, 9.2) | 36.3 (28.9, 44.5) |
| 25-44 | 23.0 (19.0, 27.7) | 18.0 (13.7, 23.3) | 15.4 (12.8, 18.4) | 6.9 (5.2, 9.1) | 5.6 (2.6, 11.8) | $31.1(25.6,37.1)$ |
| 45-64 | 26.2 (21.1, 31.9) | 19.4 (14.9, 24.9) | 11.2 (8.2, 15.1) | 6.8 (4.8, 9.6) | $5.7(2.5,12.4)$ | $30.7(25.1,37.0)$ |
| 65+ | 22.7 (15.3, 32.4) | 16.0 (9.7, 25.2) | 3.0 (1.0, 8.7) | 4.3 (2.0, 9.3) | $5.4(2.0,13.5)$ | $48.5(38.2,58.9)$ |
| Residence |  |  |  |  |  |  |
| Urban | 24.1 (19.5, 29.3) | 20.5 (15.4, 26.8) | 23.3 (19.1, 28.1) | 9.6 (7.1, 12.9) | 2.8 (0.8, 9.8) | 19.7 (14.8, 25.8) |
| Rural | 19.8 (15.2, 25.4) | 17.4 (11.4, 25.6) | 8.8 (6.6, 11.5) | $2.9(1.8,4.7)$ | 7.4 (3.0, 17.3) | 43.6 (35.3, 52.3) |
| Educational level |  |  |  |  |  |  |
| Less than primary school completed | 18.5 (13.3, 25.2) | 15.8 (10.6, 22.7) | 7.4 (4.4, 12.2) | 2.7 (1.6, 4.8) | $4.7(2.0,10.5)$ | $50.9(42.4,59.3)$ |
| Primary school completed | 21.6 (17.2, 26.8) | $21.2(15.5,28.3)$ | 10.1 (7.7, 13.2) | 3.3 (2.0, 5.3) | $9.5(4.3,19.8)$ | 34.3 (27.1, 42.3) |
| Secondary school completed | 21.7 (17.2, 26.9) | 23.9 (17.6, 31.5) | 19.6 (15.4, 24.6) | 7.5 (4.7, 11.6) | 3.6 (1.3, 9.1) | 23.8 (18.2, 30.6) |
| High school completed | 23.4 (18.9, 28.7) | $16.5(12.2,21.8)$ | $22.1(18.1,26.6)$ | 9.1 (6.8, 12.3) | $2.7(1.1,6.6)$ | 26.1 (20.0, 33.4) |
| College \& university + | 29.2 (21.1, 39.0) | 9.4 (4.8, 17.4) | $33.1(23.3,44.6)$ | 15.1 (9.9, 22.3) | 2.4 (0.5, 10.2) | 10.8 (6.7, 17.0) |
| Occupation/work status |  |  |  |  |  |  |
| Employed | 20.1 (16.2, 24.6) | 20.7 (15.3, 27.3) | 19.5 (15.7, 24.0) | 8.2 (5.8, 11.5) | 5.3 (2.2, 12.2) | 26.3 (20.8, 32.7) |
| Self-employed | 22.9 (18.7, 27.8) | 15.6 (11.6, 20.7) | 12.3 (9.8, 15.2) | 4.3 (3.1,5.9) | 6.1 (2.4, 14.8) | 38.7 (32.0, 45.8) |
| Students | 23.6 (14.1, 36.8) | 15.3 (7.2, 29.4) | 29.5 (18.7, 43.2) | 1.6 (0.4, 7.1) | 0.0 | $29.9(16.6,47.8)$ |
| Home-makers | 12.6 (4.5, 30.7) | 45.6 (26.5, 66.0) | $7.4(2.3,21.6)$ | 0.0 | 0.0 | 34.4 (18.1, 55.6) |
| Unemployed | 24.1 (15.4, 35.7) | 26.4 (16.8, 38.7) | $9.1(4.8,16.3)$ | 8.4 (4.6, 15.0) | 3.5 (1.2, 9.9) | 28.5 (20.2, 38.6) |

Note: Current kretek cigarette smokers include daily and occasional(less than daily) use. The top five reported brands last purchased among all manufactured cigarette smokers are shown here.

### 7.2. $\quad$ Source of last purchase of kretek cigarettes

Table 7.2 shows that overall, kretek cigarettes were most commonly purchased at kiosks ( $79.8 \%$ ) and at stores ( $17.6 \%$ ). The largest proportion that purchased the cigarettes at kiosks was men (79.9\%), those in the age group of 15-24 years (81.1\%), and rural dwellers (80.6\%).

The other sources of purchase (2.6\%) included street vendors, duty-free shops, outside the country and from another person.

Table 7.2. Percentage distribution of kretek cigarette smokers 15 years and above, by the source of last purchase of kretek cigarettes and selected demographic characteristics - GATS Indonesia, 2011

| Source | Overall | Gender |  | Age (years) |  | Residence |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Men | Women | 15-24 | $\geq 25$ | Urban | Rural |
| Percentage (95\% CI) |  |  |  |  |  |  |  |
| Store | 17.6 (12.1, 24.7) | 17.4 (12.1, 24.4) | 21.8 (11.5, 37.6) | 16.1 (9.3, 26.6) | 17.9 (12.6, 24.9) | 19.4 (12.2, 29.5) | 16.0 (8.9, 27.1) |
| Kiosk | 79.8 (72.4, 85.6) | 79.9 (72.6, 85.6) | 77.8 (62.1, 88.3) | 81.1 (70.5, 88.5) | 79.5 (72.3, 85.2) | 78.8 (68.8, 86.2) | 80.6 (69.1, 88.6) |
| Other | 2.6 (1.0, 6.7) | 2.7 (1.0, 7.0) | 0.4 (0.0, 2.6) | 2.7 (0.8, 9.5) | 2.6 (1.1, 6.3) | 1.7 (1.0, 3.1) | 3.4 (0.9, 12.3) |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Note: Other includes: street vendor, duty-free shop, outside the country, from another person or other

### 7.3. Expenditure on cigarettes

Information was collected on expenditure incurred on kretek cigarettes. The average price paid by smokers aged 15 years and above by selected demographic characteristics was calculated and is presented in Table 7.3.

On an average, a current kretek cigarette smoker spends IDR 198761.00 per month on kretek cigarettes.
The highest spending is incurred by smokers aged $25-44$ years, at IDR 215598.00 per month. Urban cigarette smokers spend IDR 214607.00 per month, which is IDR 29118.00 higher than the average amount spent by rural smokers (IDR 185 489.00).

Expenditure on kretek cigarettes shows an increase by education level, with college or university graduates spending the highest amount, i.e. IDR 238855.00 per month.

Among the occupational categories, employed workers spend the highest amount (IDR 211845.00 per month).

Table 7.3. Average price paid and expenditure on kretek cigarettes among users of these products aged 15 years and above, by selected demographic characteristics - GATS Indonesia, 2011

| Demographic characteristics | Kretek (Rupiah) |  |  |
| :---: | :---: | :---: | :---: |
|  | Price per 20 sticks (median) | Price per 20 sticks | Expenditure per month |
| Overall | 12500 | 12718.91 (12121.60,13316.22) | 369947.68 (296455.85,443439.50) |
| Gender |  |  |  |
| Men | 12500 | 12753.22 (12150.36,13356.08) | 373809.40 (299004.38,448614.42) |
| Women | 8750 | 11019.85 (9045.20,12994.51) | 178263.37 (135876.46,220650.29) |
| Age (years) |  |  |  |
| 15-24 | 13750 | 13437.61 (12639.80,14235.41) | 401364.73 (222612.85,580116.60) |
| 25-44 | 12500 | 12984.11 (12079.82,13888.40) | 332876.16 (286318.63,379433.68) |
| 45-64 | 11667 | 12072.31 (11499.31,12645.30) | 338832.99 (272645.54,405020.44) |
| 65+ | 10000 | 10309.31 (8864.95,11753.67) | 963778.99 (-517412.23,2444970.21) |
| Residence |  |  |  |
| Urban | 14375 | 14095.10 (13210.85,14979.35) | 351424.38 (291845.69,411003.07) |
| Rural | 11250 | 11614.66 (10817.86,12411.45) | 384751.32 (261295.39,508207.25) |
| Educational level |  |  |  |
| Less than primary school completed | 10000 | 10288.98 (9499.03,11078.93) | 392751.23 (123521.18,661981.28) |
| Primary school completed | 11667 | 12163.07 (11046.83,13279.30) | 329359.14 (252041.45,406676.83) |
| Secondary school completed | 13750 | 14183.70 (12621.33,15746.06) | 332147.11 (283287.01,381007.20) |
| High school completed | 14375 | 13968.14 (13181.94,14754.34) | 439713.21 (300402.96,579023.46) |
| College \& university + | 15000 | 14659.87 (13910.99,15408.75) | 337284.24 (303400.39,371168.09) |
| Occupation/work status |  |  |  |
| Employed | 13333 | 13388.80 (12519.93,14257.68) | 368053.70 (287209.73,448897.68) |
| Self-employed | 11667 | 12048.70 (11279.26,12818.14) | 317280.57 (276394.38,358166.75) |
| Students | 15000 | 14299.21 (12747.43,15850.99) | 257367.55 (206986.12,307748.98) |
| Home makers | 8750 | 11981.58 (9137.81,14825.34) | 150243.30 (114498.36,185988.24) |
| Unemployed | 13750 | 13629.40 (12362.53,14896.28) | 922414.85 (-83351.89,1928181.59) |

## 8. Media

The Tobacco Control Act in Indonesia has banned advertisement of tobacco products in a very limited way. Advertisement at the point of sale is not banned. Tobacco industries are using various marketing tactics to attract young people. Some subnational governments have banned advertisements, but this does not have the desired effect as electronic transmission is not under their control. Various nongovernmental organizations have been campaigning for tobacco control for the past two decades by raising awareness, both in the general populace and among policy-makers, for enforcement of the ban. The government has taken steps to remove visible signbords and billboards advertising tobacco products. The Act has made it compulsory for industries to provide a specific textual health warning on every advertisement and on packets of all smoked tobacco products; however, it has been implemented on cigarettes packets only. Smokeless tobacco products are not covered by the law.

## Key findings

- Nearly half the population noticed anti-smoking information in any location.
- Nearly three in five people in urban areas noticed anti-smoking information while two in five noticed it in rural areas.
- Nearly four in five people noticed cigarette advertisements and marketing in any location.
- Nearly nine in ten people noticed cigarette advertisements and marketing in urban areas, while eight in ten noticed these in urban areas.
- Nearly seven in 10 current smokers noticed a health warning on cigarette packages, and about three in 10 current cigarette smokers thought about quitting because of the health warning.

The GATS in Indonesia provides an opportunity to track tobacco control interventions and focus on media awareness among both smokers and non-smokers. The data presented in this chapter provide information on the perceptions of adults as a result of anti-smoking information in the various mass media and public places, health warnings on different tobacco products and all forms of cigarette advertising. In general, adults (both men and women) reported noticing significantly more pro-cigarette advertisements than the anti-cigarette smoking messages (Figure 8.1).

Figure. 8.1. Noticing anti- and pro-cigarette smoking information, by gender - GATS Indonesia, 2011


Note: All figures are in percentages.

### 8.1. Percentage of adults 15 years and above who noticed anti-smoking information during the past 30 days in various places

This section covers the degree of awareness of anti-smoking information in the media and displayed in public places. This includes newspapers or magazines, television, radio, billboards and somewhere else. Table 8.1 shows that overall, $52.7 \%$ of people aged 15 years and above noticed anti-smoking information at any location. The largest overall percentage noticed the information while watching television or listening to radio programmes (40.9\%), followed by billboards (30.4\%), newspapers or magazines ( $10.6 \%$ ) and somewhere else ( $8.4 \%$ ). Anti-smoking information at any location was noticed more by men (57.1\%), people in the younger age group of $15-24$ years ( $63.0 \%$ ) and people living in urban areas ( $64.3 \%$ ) as compared to their counterparts. Men are more likely to notice anti-smoking information in newspapers, magazines and billboards. Young people were more likely to notice anti-smoking information on radio, television and billboards. People living in urban areas were more likely to notice anti-smoking information in almost all places, with the exception of radio (Table 8.1).

There is no substantial difference in the percentage of people who noticed anti-smoking information between the overall population (52.7\%), current smokers (53.1\%) and non-smokers (52.2\%) at various locations and in any location (Table 8.1). In the categories of current smokers and non-smokers, men and people living in urban areas were more likely to notice anti-smoking information.
Table 8.1: Percentage of adults $\geq 15$ years old who noticed anti-cigarette smoking information during the last 30 days in various places, bysmoking status and selected demographic characteristics - GATS Indonesia, 2011

| Places | Overall | Gender |  | Age(years) |  | Residence |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | 15-24 | $\geq 25$ | Urban | Rural |
|  | Percentage (95\% CI) |  |  |  |  |  |  |
| Overall |  |  |  |  |  |  |  |
| In newspapers orin magazines | 10.6 (8.9, 12.5) | 12.6 (10.5, 14.9) | 8.6 (7.1, 10.4) | 13.2 (10.4, 16.5) | 9.8 (8.2, 11.7) | 15.1 (12.1, 18.7) | 6.1 (4.8, 7.7) |
| On television or the radio | 40.9 (37.0, 45.0) | 43.5 (39.1, 48.0) | 38.4 (34.4, 42.5) | 49.2 (43.8, 54.5) | 38.3 (34.5, 42.3) | 51.1 (45.0, 57.2) | 30.7 (25.9, 36.0) |
| On television | 39.7 (35.8, 43.7) | 42.3 (38.0, 46.8) | 37.0 (33.1, 41.1) | 48.1 (42.8, 53.5) | 37.0 (33.2, 40.9) | 49.8 (43.6, 55.9) | 29.5 (24.8, 34.6) |
| On the radio | 5.0 (4.1, 6.1) | $5.4(4.3,6.7)$ | 4.6 (3.7, 5.8) | 5.4 (4.0, 7.5) | 4.9 (3.9, 6.0) | 6.3 (4.9, 8.2) | 3.7 (2.6, 5.1) |
| On billboards | 30.4 (26.9, 34.2) | 35.2 (31.1, 39.6) | 25.6 (22.3, 29.2) | 38.7 (33.3, 44.4) | 27.8 (24.5, 31.3) | 41.6 (35.6, 47.8) | 19.2 (15.3, 23.8) |
| Somewhere else | 8.4 (6.7, 10.4) | 9.2 (7.4, 11.5) | 7.5 (5.8, 9.7) | 9.9 (7.7, 12.7) | 7.9 (6.2, 9.9) | 11.0 (8.3, 14.4) | 5.8 (4.0, 8.2) |
| Any Location | 52.7 (48.6, 56.8) | 57.1 (52.6, 61.4) | 48.3 (44.1, 52.6) | 63.0 (57.6, 68.0) | 49.4 (45.3, 53.6) | 64.3 (57.9, 70.2) | 41.0 (35.7, 46.6) |
| Current smokers ${ }^{1}$ |  |  |  |  |  |  |  |
| In newspapers orin magazines | 9.4 (7.8, 11.2) | 9.6 (8.0, 11.5) | 3.8 (1.4, 10.0) | 7.3 (4.8, 11.0) | 9.8 (8.1, 11.9) | 14.0 (10.9, 17.8) | 5.4 (4.2, 6.9) |
| On television or the radio | 40.3 (36.0, 44.7) | 40.8 (36.4, 45.4) | 26.1 (17.5, 37.1) | 47.9 (40.4, 55.5) | 38.6 (34.5, 42.9) | 51.7 (44.7, 58.7) | 30.5 (25.5, 35.9) |
| On television | 38.8 (34.6, 43.2) | 39.4 (35.1, 43.9) | 22.8 (15.5, 32.3) | 45.9 (38.4, 53.6) | 37.2 (33.2, 41.4) | 50.1 (43.1, 57.1) | 29.1 (24.3, 34.4) |
| On the radio | 5.5 (4.3, 7.0) | 5.6 (4.3, 7.1) | 4.5 (1.8, 10.9) | 6.7 (4.3, 10.3) | 5.3 (3.9, 7.0) | 6.9 (4.9, 9.6) | 4.4 (3.1, 6.1) |
| On billboards | 32.1 (28.2, 36.3) | 32.8 (28.8, 37.1) | 14.3 (8.2, 23.8) | 37.0 (29.7, 44.9) | 31.0 (27.2, 35.0) | 45.4 (39.0, 52.1) | 20.7 (16.2, 26.1) |
| Somewhere else | 8.4 (6.5, 10.7) | 8.5 (6.6, 10.9) | 5.5 (2.4, 12.1) | 8.3 (5.4, 12.7) | 8.4 (6.5, 10.8) | 11.5 (8.4, 15.5) | 5.7 (3.7, 8.7) |
| Any Location | 53.1 (48.5, 57.7) | 53.8 (49.1, 58.5) | 34.1 (24.3, 45.6) | 59.8 (52.1, 67.0) | 51.6 (47.1, 56.1) | 66.1 (58.8, 72.7) | 42.0 (36.1, 48.0) |
| Non-smokers ${ }^{2}$ |  |  |  |  |  |  |  |
| In newspapers orin magazines | 11.3 (9.4, 13.5) | 18.6 (15.1, 22.8) | 8.8 (7.2, 10.6) | 15.2 (12.0, 19.2) | 9.8 (7.9, 12.0) | 15.6 (12.3, 19.5) | 6.5 (4.9, 8.6) |
| On television or the radio | 41.3 (37.1, 45.6) | 49.0 (43.4, 54.7) | 38.7 (34.7, 42.9) | 49.6 (44.0, 55.2) | 38.2 (34.1, 42.4) | 50.8 (44.6, 57.0) | 30.9 (25.7, 36.7) |
| On television | 40.1 (36.0, 44.4) | 48.3 (42.7, 53.9) | 37.4 (33.4, 41.6) | 48.9 (43.4, 54.4) | 36.8 (32.8, 41.0) | 49.6 (43.4, 55.8) | 29.7 (24.6, 35.3) |
| On the radio | 4.7 (3.8, 5.9) | 5.0 (3.6, 6.9) | 4.6 (3.6, 5.9) | 5.0 (3.4, 7.3) | 4.6 (3.7, 5.8) | $6.1(4.6,8.0)$ | 3.2 (2.2, 4.8) |
| On billboards | 29.5 (25.8, 33.6) | 40.2 (34.6, 46.1) | 25.9 (22.5, 29.6) | 39.3 (33.5, 45.4) | 25.8 (22.3, 29.6) | 39.7 (33.6, 46.3) | 18.3 (14.3, 23.0) |
| Somewhere else | 8.4 (6.6, 10.6) | 10.8 (8.1, 14.1) | 7.6 (5.8, 9.8) | 10.5 (7.9, 13.9) | 7.6 (5.9, 9.7) | 10.7 (7.9, 14.4) | 5.8 (3.9, 8.6) |
| Any Location | 52.5 (48.1, 56.8) | 63.7 (58.0, 69.0) | 48.7 (44.4, 53.1) | 64.1 (58.5, 69.3) | 48.1 (43.7, 52.6) | 63.5 (56.9, 69.5) | 40.5 (34.8, 46.5) | Note: Includes both white cigarettes and kretek cigarettes.

${ }^{1}$ Includes daily and occasional(less than daily) smokers.
${ }^{2}$ Includes former and never smokers.

### 8.2. Noticed health warning labels on cigarette packages and thought about quitting

Table 8.2 shows that $72.2 \%$ of current smokers noticed health warnings on cigarette packages. A higher percentage of men noticed these compared to women ( $73.3 \%$ and $45.4 \%$, respectively). More smokers in the younger age groups ( $84.3 \%$ in the $15-24$ years and $79.3 \%$ in the $25-44$ years age group) noticed health warnings as compared to those in the older age groups (45-64 years and 65+ years). By residence, an almost equal proportion of current tobacco smokers in urban and rural areas noticed warnings on cigarette packages ( $73.1 \%$ for urban and $71.5 \%$ for rural). More than $70 \%$ of current smokers who had at least primary school education noticed warnings on cigarette packages. However, only $46.7 \%$ of current smokers who had less than primary education noticed such warnings. By occupation, home-makers noticed health warnings on cigarette packages least (49.5\%).

Among current smokers (including daily and occasional smokers), $27.1 \%$ thought about quitting smoking because of the health warnings. Approximately this same percentage of current smokers across all age groups thought about quitting smoking because of the health warnings, except current smokers aged 65+ years among whom only $7.8 \%$ thought about it. Thinking about quitting smoking due to such warnings was the same for urban and rural areas ( $27.9 \%$ for urban and $26.3 \%$ for rural areas). Smokers in the lowest educational group (less than primary) thought less about quitting as compared to the other educational groups.
Table 8.2: Percentage of current smokers $\geq 15$ years old who noticed health warnings on cigarette packages and considered quitting because of the warning labels during the last 30 days, by selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Current smokers ${ }^{1}$ who... |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Noticed health warnings on cigarette package ${ }^{2}$ | Thought about quitting because of warning label ${ }^{2}$ | Warning labels led to think about quitting ${ }^{3}$ |  |  |
|  |  |  | A lot | A little | Don't Know |
|  | Percentage(95\% CI) |  |  |  |  |
| Overall | 72.2 (67.4, 76.6) | 27.1 (23.5, 30.9) | 29.8 (24.5, 35.7) | 67.5 (61.4, 73.0) | 2.7 (1.6, 4.7) |
| Gender |  |  |  |  |  |
| Male | 73.3 (68.3, 77.7) | 27.5 (23.8, 31.5) | 29.7 (24.4, 35.7) | 67.7 (61.6, 73.3) | 2.5 (1.4, 4.5) |
| Female | 45.4 (32.7, 58.7) | 17.0 (10.0, 27.2) | -- | -- | -- |
| Age (years) |  |  |  |  |  |
| 15-24 | 84.3 (78.1, 88.9) | 28.8 (22.9, 35.4) | 28.6 (17.3, 43.5) | 70.4 (55.9, 81.8) | 1.0 (0.1, 6.5) |
| 25-44 | 79.3 (73.4, 84.1) | 30.8 (26.3, 35.7) | 27.2 (22.1, 33.1) | 70.2 (64.0, 75.6) | 2.6 (1.2, 5.6) |
| 45-64 | 59.9 (54.0, 65.5) | 23.7 (19.7, 28.2) | 34.1 (26.9, 42.0) | 61.6 (53.3, 69.2) | 4.4 (2.0, 9.1) |
| 65+ | 35.6 (27.2, 44.9) | 7.8 (4.7, 12.6) | -- | -- | -- |
| Residence |  |  |  |  |  |
| Urban | 73.1 (65.4, 79.5) | 27.9 (22.9, 33.5) | 34.7 (27.9, 42.2) | 61.4 (53.4, 68.8) | 3.9 (1.9, 7.6) |
| Rural | 71.5 (65.0, 77.1) | 26.3 (21.5, 31.8) | 25.4 (17.7, 35.0) | 73.0 (63.4, 80.8) | $1.7(0.7,4.1)$ |
| Education Level |  |  |  |  |  |
| Less than primary school completed | 46.7 (40.1, 53.5) | 13.7 (10.8, 17.3) | 29.7 (21.3, 39.6) | 66.1 (56.5, 74.5) | 4.2 (1.6, 10.7) |
| Primary school completed | 74.1 (67.8, 79.5) | 27.3 (22.5, 32.7) | 29.2 (22.0, 37.7) | 66.7 (58.4, 74.1) | 4.0 (2.0, 8.0) |
| Secondaryschool completed | 81.2 (75.5, 85.9) | 30.7 (25.4, 36.6) | 27.8 (20.3, 36.8) | 71.4 (62.1, 79.1) | 0.8 (0.2, 3.9) |
| High school completed | 85.4 (78.4, 90.4) | 36.2 (29.3, 43.6) | 32.6 (23.2, 43.7) | 65.6 (54.3, 75.4) | $1.8(0.5,5.8)$ |
| College or University + | 88.7 (80.2, 93.8) | 34.5 (26.0, 44.1) | 26.4 (16.0, 40.2) | 69.0 (52.9, 81.6) | 4.6 (1.1, 17.6) |
| Occupation/Work status |  |  |  |  |  |
| Employed | 76.0 (68.5, 82.1) | 29.1 (24.6, 34.0) | 26.2 (20.3, 33.1) | 71.6 (64.8, 77.6) | 2.2 (1.1, 4.4) |
| Self-employed | 70.1 (64.2, 75.4) | 26.0 (21.5, 31.0) | 31.5 (24.1, 39.8) | 66.2 (57.9, 73.7) | 2.3 (1.1, 4.9) |
| Students | 83.7 (71.3, 91.3) | 31.0 (19.4, 45.8) | -- | -- | -- |
| Home makers | 49.5 (31.4, 67.7) | 19.0 (9.1, 35.3) | -- | --- | -- |
| Un-employed | 66.9 (57.8, 74.9) | 23.4 (16.3, 32.5) | 33.0 (17.3, 53.8) | 57.7 (38.3, 75.0) | 9.3 (2.7, 27.7) |

${ }^{1}$ Includes daily and occasional(less than daily) smokers.
${ }^{2}$ During the last 30 days.
${ }^{3}$ Includes respndents who thought about qutting becase of warning label
-- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

### 8.3. Marketing

### 8.3.1. Noticed cigarette marketing in various public places

Table 8.3 presents the distribution of adults aged 15 years and above who noticed cigarette marketing in the past 30 days in public places and the media, such as in stores where cigarettes are sold, on television, radio, billboards, posters, newspapers or magazines, internet, cinemas, public transport/stations, public walls and banners; and cigarette promotion through free samples, sales, coupons, free gifts, etc. The percentage of people who noticed any cigarette advertisement, sponsorship or promotion was $84.6 \%$. Men, people in the younger age group ( $15-24$ years) and people living in urban areas were more likely to notice cigarette marketing as compared to their counterparts.

The commonest site for noticing cigarette advertisements was on television ( $66.3 \%$ ), followed by banners (47.7\%), stores (45.6\%), posters (42.3\%), billboards (39.6\%), public walls (16.1\%), public transport vehicles/stations (13.5\%), and newspapers or magazines (10.1\%). The percentage of adults who noticed sports sponsorships was $32.1 \%$. The most common type of promotion noticed was clothing and other items with the brand name or logo ( $29.5 \%$ ). Other promotional activities noticed were free samples ( $5.6 \%$ ), mail promoting cigarettes ( $5.0 \%$ ) and sale prices ( $4.6 \%$ ).

### 8.3.2. Noticed white cigarette marketing in various public places

Table 8.3A presents the distribution of adults aged 15 years and above who noticed white cigarette marketing in the past 30 days in several locations as described in the table. The percentage of people who noticed any white cigarette advertisement, sponsorship or promotion was $40.9 \%$. It did not differ substantially by gender or age; however, people in urban areas noticed white cigarette advertisements and marketing more than people in urban areas.

The most common site of noticing white cigarette advertisements was on television (27.5\%), followed by stores (16.6\%), banners (16.0\%), posters (15.9\%), billboards (15.7\%), newspapers or magazines (5.2\%), public transport vehicles/stations (5.0\%) and public walls (4.5\%). The percentage of adults who noticed sports sponsorships was $8.5 \%$. The most common type of promotion noticed was clothing and other items with the brand name or logo ( $7.8 \%$ ). Other promotional activities noticed were mail promoting cigarettes ( $2.5 \%$ ), free samples ( $1.8 \%$ ) and sale prices ( $1.2 \%$ ).

### 8.3.3. Noticed kretek cigarette marketing in various public places

Table 8.3B presents the distribution of adults aged 15 years and above who noticed kretek cigarette marketing in the past 30 days in different locations, as indicated in the table. The percentage of adults who noticed any kretek cigarette advertisement, sponsorship or promotion was $84.2 \%$. Men, people in the younger age group (15-24 years) and people living in urban areas were more likely to notice kretek cigarette marketing as compared to their counterparts.

The most common site of noticing kretek cigarette advertisements was on television (65.9\%). Other sites were banners (47.0\%), stores (44.9\%), posters (41.8\%), billboards (38.8\%), public walls (15.8\%), public transport/vehicles (13.1\%), and newspapers or magazines (9.7\%). The percentage of adults who noticed sports sponsorships was $31.4 \%$. The most common type of promotion noticed was clothing and other items with the brand name or logo ( $28.9 \%$ ). Other promotional activities noticed were free samples ( $5.0 \%$ ), mail promoting cigarettes (4.7\%), sale prices (4.3\%) and free gifts/discounts on other products (2.2\%).
Table 8.3: Percentage of adults $\geq 15$ years old who noticed cigarette marketing during the last 30 days in various places, by selected demographic characteristics - GATS Indonesia, 2011.

| Places | Overall | Gender |  | Age(years) |  | Residence |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | 15-24 | $\geq 25$ | Urban | Rural |
|  | Percentage (95\% CI) |  |  |  |  |  |  |
| Noticed advertisements |  |  |  |  |  |  |  |
| In stores | 45.6 (40.7, 50.6) | 53.4 (47.8, 59.1) | 37.8 (33.4, 42.4) | 52.8 (46.9, 58.7) | 43.3 (38.4, 48.3) | 51.4 (44.4, 58.5) | 39.7 (33.0, 46.8) |
| On television | 66.3 (62.5, 69.9) | 72.3 (68.4, 75.9) | 60.3 (56.3, 64.2) | 77.1 (72.4, 81.2) | 62.9 (58.9, 66.6) | 73.9 (68.8, 78.5) | 58.6 (52.9, 64.1) |
| On the radio | 4.6 (3.7, 5.8) | 5.5 (4.3, 7.1) | 3.7 (2.9, 4.7) | 5.5 (3.8, 7.9) | 4.3 (3.5, 5.3) | 5.6 (4.2, 7.4) | 3.6 (2.4, 5.2) |
| On billboards | 39.6 (35.4, 44.0) | 48.7 (43.8, 53.6) | 30.6 (26.8, 34.7) | 49.5 (43.2, 55.8) | 36.5 (32.6, 40.6) | 50.6 (43.8, 57.4) | 28.6 (23.6, 34.2) |
| On posters | 42.3 (38.2, 46.5) | 49.6 (45.0, 54.2) | 35.0 (31.1, 39.1) | 52.7 (47.2, 58.1) | 39.0 (35.1, 43.0) | 46.3 (39.9, 52.9) | 38.3 (33.3, 43.5) |
| In newspapers or magazines | 10.1 (8.2, 12.2) | 12.3 (9.8, 15.3) | 7.8 (6.4, 9.6) | 12.6 (9.8, 16.2) | 9.2 (7.6, 11.2) | 14.3 (11.0, 18.3) | 5.8 (4.4, 7.7) |
| In cinemas | 0.6 (0.3, 1.0) | 0.6 (0.3, 1.3) | 0.5 (0.3, 0.9) | 1.3 (0.6, 2.7) | 0.4 (0.2, 0.7) | 1.0 (0.5, 1.8) | 0.2 (0.1, 0.5) |
| On the internet | 1.9 (1.4, 2.5) | 2.4 (1.8, 3.2) | 1.4 (0.9, 2.1) | 4.2 (3.2, 5.6) | 1.1 (0.7, 1.8) | 2.9 (2.0, 4.0) | 0.9 (0.5, 1.4) |
| On public transportation vehicles/stations | 13.5 (10.9, 16.6) | 16.8 (13.4, 20.8) | 10.3 (8.1, 13.0) | 17.7 (13.5, 22.8) | 12.2 (9.9, 14.9) | 19.7 (15.0, 25.3) | 7.4 (5.4, 10.1) |
| On public walls | 16.1 (12.6, 20.2) | 20.5 (16.1, 25.7) | 11.7 (8.9, 15.0) | 21.5 (16.8, 27.2) | 14.3 (11.2, 18.2) | 21.7 (16.1, 28.6) | $10.4(6.9,15.3)$ |
| On banners | $47.7(43.4,52.2)$ | 56.5 (51.3, 61.5) | 39.1 (35.0, 43.3) | $54.9(49.0,60.6)$ | 45.5 (41.2, 49.8) | 54.2 (47.8, 60.5) | 41.2 (35.2, 47.5) |
| Somewhere else | 7.9 (5.9, 10.6) | 9.5 (7.0, 12.7) | 6.4 (4.7, 8.7) | 10.6 (7.7, 14.6) | 7.1 (5.2, 9.6) | 9.2 (6.4, 13.0) | 6.7 (4.0, 10.9) |
| Noticed sports sponsorship | 32.1 (28.3, 36.2) | 44.5 (39.6, 49.4) | 19.8 (16.5, 23.6) | 40.0 (34.5, 45.7) | 29.6 (26.0, 33.5) | 39.4 (33.3, 45.9) | 24.8 (20.4, 29.7) |
| Music/Fashion | 20.2 (17.3, 23.4) | 25.4 (21.8, 29.4) | 15.0 (12.6, 17.8) | 31.6 (26.6, 37.1) | 16.5 (14.1, 19.4) | 28.8 (24.1, 34.0) | 11.5 (8.4, 15.6) |
| Noticed cigarette promotions |  |  |  |  |  |  |  |
| Free samples | 5.6 (4.7, 6.8) | 7.8 (6.4, 9.4) | 3.5 (2.7, 4.6) | 6.4 (4.6, 8.9) | 5.4 (4.5, 6.5) | 7.5 (6.0, 9.2) | 3.8 (2.7, 5.4) |
| Sale prices | 4.6 (3.8, 5.7) | 5.8 (4.7, 7.2) | 3.5 (2.6, 4.6) | 5.8 (4.5, 7.4) | 4.3 (3.4, 5.4) | 6.5 (5.1, 8.3) | 2.7 (1.8, 4.1) |
| Coupons | 1.1 (0.8, 1.7) | 1.5 (1.0, 2.3) | 0.8 (0.5, 1.2) | 1.5 (0.9, 2.7) | 1.0 (0.7, 1.6) | 1.6 (1.0, 2.6) | 0.7 (0.3, 1.3) |
| Free gifts/discounts on other products | 2.5 (1.9, 3.3) | 2.9 (2.2, 3.8) | 2.1 (1.4, 3.1) | 2.5 (1.6, 3.7) | 2.5 (1.8, 3.4) | 2.5 (1.7, 3.8) | 2.4 (1.6, 3.6) |
| Clothing/item with brand name or logo | 29.6 (25.9, 33.5) | 35.5 (31.0, 40.2) | 23.7 (20.5, 27.2) | 36.9 (31.9, 42.1) | 27.2 (23.7, 31.1) | 34.9 (29.3, 40.9) | 24.2 (19.6, 29.5) |
| Mail promoting cigarettes | 5.0 (3.3, 7.4) | 6.4 (4.2, 9.6) | 3.6 (2.4, 5.4) | 7.5 (4.9, 11.5) | $4.2(2.8,6.2)$ | 7.2 (4.3, 12.0) | 2.7 (1.7, 4.3) |
| Noticed any advertisement, sponsorship or promotion | 84.6 (82.1, 86.8) | 91.1 (88.8, 92.9) | 78.2 (75.1, 80.9) | 93.6 (90.9, 95.6) | 81.7 (79.1, 84.1) | 89.7 (87.0, 91.9) | 79.5 (75.2, 83.1) |

[^13]Table 8.3A: Percentage of a dults $\geq 15$ years old who noticed white cigarette marketing during the last 30 days in various places, byselected demographic characteristics -

Table 8.3B: Percentage of adults $\geq 15$ years old who noticed kretek cigarette marketing during the last 30 days in various places, by selected demographic characteristics -

| Places | Overall | Gender |  | Age(years) |  | Residence |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Male | Female | 15-24 | $\geq 25$ | Urban | Rural |
|  | Percentage (95\% CI) |  |  |  |  |  |  |
| Noticed advertisements |  |  |  |  |  |  |  |
| In stores | 44.9 (40.0, 49.9) | 52.7 (47.1, 58.3) | 37.1 (32.6, 41.7) | 51.9 (45.9, 57.8) | 42.6 (37.8, 47.6) | 50.4 (43.3, 57.4) | 39.3 (32.7, 46.5) |
| On television | 65.9 (62.1, 69.6) | 72.0 (68.0, 75.6) | 59.9 (55.8, 63.9) | 76.6 (71.9, 80.7) | 62.5 (58.6, 66.3) | 73.3 (68.3, 77.9) | 58.5 (52.7, 64.0) |
| On the radio | 4.4 (3.5, 5.5) | 5.3 (4.1, 6.9) | 3.5 (2.8, 4.5) | 5.2 (3.6, 7.5) | 4.2 (3.4, 5.2) | 5.3 (4.0, 7.0) | 3.6 (2.4, 5.2) |
| On billboards | 38.8 (34.6, 43.2) | 47.8 (42.9, 52.7) | 29.9 (26.1, 34.0) | 48.6 (42.3, 54.9) | 35.7 (31.8, 39.8) | 49.2 (42.5, 56.0) | 28.4 (23.3, 34.0) |
| On posters | 41.8 (37.7, 46.0) | $48.9(44.3,53.6)$ | 34.7 (30.8, 38.9) | 52.0 (46.4, 57.5) | 38.6 (34.7, 42.6) | 45.5 (39.1, 52.1) | 38.1 (33.1, 43.4) |
| In news papers or magazines | 9.7 (7.9, 11.9) | 11.9 (9.4, 14.9) | 7.5 (6.1, 9.2) | 12.0 (9.1, 15.6) | 9.0 (7.3, 11.0) | 13.6 (10.4, 17.6) | 5.8 (4.3, 7.7) |
| In cinemas | 0.5 (0.3, 1.0) | 0.5 (0.2, 1.2) | 0.5 (0.3, 0.9) | 1.1 (0.5, 2.7) | 0.3 (0.2, 0.7) | 0.9 (0.4, 1.7) | 0.2 (0.1, 0.5) |
| On the internet | 1.6 (1.1, 2.2) | 1.9 (1.4, 2.8) | $1.2(0.8,1.9)$ | 3.7 (2.7, 5.0) | 0.9 (0.5, 1.5) | 2.5 (1.7, 3.6) | 0.6 (0.4, 1.2) |
| On public transportation vehicles/stations | 13.1 (10.5, 16.2) | 16.2 (12.8, 20.1) | 10.1 (7.9, 12.7) | 17.2 (13.0, 22.4) | 11.8 (9.6, 14.5) | 18.9 (14.3, 24.5) | 7.3 (5.3, 9.9) |
| On public walls | 15.8 (12.4, 19.9) | 20.1 (15.7, 25.3) | $11.4(8.7,14.8)$ | 21.1 (16.3, 26.7) | 14.1 (10.9, 17.9) | 21.2 (15.6, 28.2) | 10.2 (6.8, 15.2) |
| On banners | 47.0 (42.6, 51.5) | $55.5(50.3,60.7)$ | 38.6 (34.5, 42.8) | 54.0 (48.1, 59.8) | 44.8 (40.5, 49.2) | 53.1 (46.6, 59.4) | 40.9 (34.9, 47.3) |
| Somewhere else | 7.5 (5.5, 10.2) | 9.0 (6.5, 12.1) | 6.1 (4.4, 8.4) | 10.3 (7.3, 14.2) | 6.7 (4.9, 9.1) | 8.6 (5.9, 12.3) | 6.5 (3.9, 10.8) |
| Noticed sports sponsorship | 31.4 (27.6, 35.6) | 43.5 (38.6, 48.5) | 19.4 (16.1, 23.2) | 39.0 (33.5, 44.8) | 29.0 (25.4, 33.0) | 38.3 (32.0, 45.0) | 24.5 (20.2, 29.4) |
| Music/Fashion | 19.4 (16.5, 22.7) | $24.4(20.8,28.5)$ | $14.4(12.0,17.2)$ | 29.8 (24.7, 35.4) | 16.1 (13.6, 18.9) | 27.4 (22.7, 32.7) | 11.3 (8.2, 15.5) |
| Noticed cigarette promotions |  |  |  |  |  |  |  |
| Free samples | 5.0 (4.1, 6.0) | 6.8 (5.5, 8.3) | 3.1 (2.4, 4.1) | 5.8 (4.1, 8.1) | 4.7 (3.9, 5.7) | 6.4 (5.1, 8.1) | 3.5 (2.5, 4.8) |
| Sale prices | 4.3 (3.4, 5.3) | 5.2 (4.1, 6.6) | 3.3 (2.5, 4.4) | 5.6 (4.3, 7.2) | 3.9 (3.0, 5.0) | 5.8 (4.4, 7.7) | 2.7 (1.8, 4.0) |
| Coupons | 1.1 (0.7, 1.6) | 1.5 (0.9, 2.3) | 0.7 (0.4, 1.2) | 1.4 (0.7, 2.5) | 1.0 (0.6, 1.6) | 1.5 (0.9, 2.5) | 0.7 (0.3, 1.3) |
| Free gifts/discounts on other products | 2.2 (1.6, 3.0) | 2.5 (1.8, 3.3) | 2.0 (1.3, 3.0) | 1.9 (1.2, 3.1) | 2.3 (1.7, 3.1) | 2.0 (1.3, 3.2) | 2.4 (1.6, 3.5) |
| Clothing/item with brand name or logo | 28.9 (25.3, 32.8) | $34.8(30.3,39.5)$ | 23.1 (19.9, 26.5) | 36.0 (31.1, 41.4) | 26.6 (23.1, 30.5) | 34.2 (28.6, 40.3) | 23.6 (19.0, 28.8) |
| Mail promoting cigarettes | 4.7 (3.0, 7.1) | 5.9 (3.8, 9.2) | 3.4 (2.2, 5.2) | $7.1(4.4,11.1)$ | 3.9 (2.5, 5.9) | 6.8 (3.9, 11.7) | 2.5 (1.5, 4.1) |
| Noticed any advertisement, sponsorship or promotion | 84.2 (81.7, 86.5) | 90.6 (88.3, 92.5) | 77.8 (74.6, 80.6) | 93.0 (90.1, 95.1) | 81.4 (78.7, 83.9) | 89.2 (86.6, 91.4) | 79.1 (74.7, 82.9) |

## 9. Knowledge, Attitudes and Perceptions

Despite conclusive evidence on the dangers of tobacco use, relatively few tobacco users understand that smoking harms nearly every organ of the body and causes many diseases. In addition, smoking affects the health of both smokers and non-smokers. This chapter presents the perceptions and views of the overall population aged 15 years and above about the hazards of smoking and its various dimensions, such as beliefs about serious illnesses caused by smoking and using smokeless tobacco, and the adverse health effects caused by exposure to second-hand smoke (SHS).

## Key findings

- Over four in five people believe that smoking causes serious illness (86.0\%) and lung cancer (84.7\%).
- Less than half of the people believe that smoking causes premature birth (49.5\%) and stroke (45.5\%).
- Less than two in five people believe that smoking causes chronic obstructive pulmonary disease (COPD, 36.0\%).
- Less than three in ten people believe that smoking causes bladder cancer (27.7\%), bone loss (20.4\%) and stomach cancer (18.5\%).
- As many as $73.7 \%$ of adults believe that exposure to other people's smoke causes serious illnesses in non-smokers.
- Less than one fourth of people (23.9\%) believe that smokeless tobacco use causes serious illnesses.


### 9.1. Beliefs about the ill effects of tobacco use

### 9.1.1. Beliefs about the ill effects of smoked tobacco use

The GATS collected information on general beliefs regarding the health effects of tobacco smoking as well as on causing various diseases among the population aged 15 years and above. Table 9.1 presents the percentage of adults who believe that smoking causes serious illness, stroke, heart attack or lung cancer by current smoking status and selected demographic characteristics. Table 9.1A presents the percentage of adults who believe that smoking causes other specific diseases such as chronic obstructive pulmonary disease (COPD), bladder cancer, stomach cancer, premature birth or bone loss.

Table 9.1 shows that a majority of the overall population believes that smoking causes serious illness, heart attack and lung cancer ( $86.0 \%, 81.5 \%$ and $84.7 \%$, respectively). However, fewer people feel that smoking can cause stroke ( $45.5 \%$ ). These flgures are similar when considered by various demographic characteristics. There is no difference in perceptions between men and women. However, the 65+ years age group, and people with less than primary school level of education have lesser awareness of the ill effects of smoking as compared to others. By occupation, students are the most aware that smoking causes serious illness (97.0\%), heart attack ( $95.5 \%$ ) and lung cancer ( 95.7 ), and $61.5 \%$ of them are also aware that smoking causes stroke.

Among current smokers, the overall belief that smoking causes serious illness, stroke and heart attack ( $81.3 \%$, $78.3 \%$ and $81.0 \%$, respectively) shows the same trend and similar percentages as for the overall population. The least awareness is about stroke ( $40.0 \%$ ). Men are more aware than women of the harmful effects of smoking on all these illnesses, and urban people are more aware than rural dwellers. Among other demographic groups, the 65+ year age group shows the least awareness, as do smokers with less than primary levels of education and the unemployed.

Non-smokers have a greater belief than smokers about the ill effects of smoking. Percentagesof those who believed that smoking causes serious illness, heart attack and lung cancer are $88.5 \%, 83.1 \%$ and $86.7 \%$, respectively. Percentages for the younger age group (15-24 years), college or university graduates and those employed are highest among their respective demographic groups.

Table 9.1A gives the details of those who believe than smoking causes COPD, bladder cancer, stomach cancer, premature birth or bone loss, separately for the overall population, smokers and non-smokers. The awareness levels regarding these diseases is much less than the ones described earlier, with overall percentage figures being COPD $-36.0 \%$, bladder cancer $-27.7 \%$, stomach cancer $-18.5 \%$, premature birth $-49.5 \%$ and bone loss - 20.4\%. Awareness levels by demographic characteristics follow a similar pattern as that for the earlier diseases. Men are more aware of the ill effects of smoking than women. The 15-24 years age group, urban populace, college or university graduates and the employed are the most aware among their respective demographic categories. The pattern and percentages are similar for smokers and for non-smokers.

### 9.1.2. Beliefs about the ill effects of smokeless tobacco use

Table 9.1B presents the percentage of adults aged 15 years and above who believe that using smokeless tobacco causes serious illness by the status of smokeless tobacco use. Overall, only $23.9 \%$ of adults believe that using smokeless tobacco causes serious illness. There is no significant difference in belief by gender and residence. The 65+ year's age group has the least belief ( $14.4 \%$ ) among all age groups. People with college and university level of education have the maximum belief ( $36.5 \%$ ) and those with less than primary level education have the least (17.6\%). The unemployed occupational group has the least awareness among all occupational groups (18.9\%).

Among current users of smokeless tobacco, the percentage of men who believe that smokeless tobacco is harmful for health is $39.0 \%$ as against only $13.3 \%$ for women. By age group, the highest percentage with this belief is among those in the 25-44 years age group (30.5\%) and the lowest in the 65+ year's age group (3.4\%). Urban and rural users of smokeless tobacco both have approximately $25 \%$ awareness levels. Those with less than primary levels of education and the unemployed have much lower levels of awareness than other demographic groups ( $11.5 \%$ and $1.5 \%$, respectively). Among non-users of smokeless tobacco, the disparities are not wide. The overall awareness level is $23.9 \%$, which is similar for men and women. Awareness level in the $65+$ year age group is $15.4 \%$, and for the $25-44$ years age group it is $26.2 \%$. Among those with less than primary level of education $17.9 \%$ have this belief while among those with college or university level education it is $36.6 \%$. Here again, the unemployed have the least belief that use of smokeless tobacco is harmful (19.4\%).

### 9.2. Beliefs about health effects of second-hand smoke

Table 9.2 presents the percentage of adults who believe that breathing other people's smoke causes serious illness in non-smokers. Overall, $73.7 \%$ of people aged 15 years and above believe that breathing other people's smoke can cause serious illness in non-smokers. An equal percentage of men and women believe this; however, more people in urban areas believe this than people in rural areas ( $79.5 \%$ and $67.8 \%$, respectively). A larger percentage of people in the younger age groups ( $15-24$ years and $25-44$ years) believe this (approximately $80.0 \%$ ) than those in the older age groups (45-64 years and 65+ years ( $64.4 \%$ and $43.9 \%$, respectively). People with a higher level of education (high school, college and university levels) believe this more than people with less education (less than primary and primary levels).

Among current smokers and non-smokers, a higher percentage of non-smokers than current smokers across all demographic groups believe that breathing other people's smoke causes serious illness in non-smokers. In both these categories, the younger age groups have greater levels of awareness than the older age groups, and urban people are more aware than rural people. By educational level, in both these groups, those with less than primary education have less than $50.0 \%$ awareness, whereas college and university graduates average around $90 \%$.

Figure. 9.1. Beliefs about health effects of smoking and second-hand smoke, by gender and age group - GATS Indonesia, 2011


Note: All figures are in percentages.

Table 9.1: Percentage of adults $\geq 15$ years old who believe that smoking causes serious illness, stroke, heart attack, or lung cancer, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults who believe that smoking causes... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Serious illness | Stroke | Heart attack | Lung cancer |
|  | Percentage(95\% CI) |  |  |  |
| Overall | 86.0 (83.4, 88.2) | 45.5 (41.3, 49.8) | 81.5 (78.4, 84.2) | 84.7 (82.2, 86.9) |
| Gender |  |  |  |  |
| Male | 85.7 (82.8, 88.1) | 46.6 (42.0, 51.2) | 82.9 (79.9, 85.6) | 85.2 (82.6, 87.4) |
| Female | 86.3 (83.4, 88.7) | 44.4 (40.1, 48.8) | 80.0 (76.4, 83.1) | $84.2(81.3,86.8)$ |
| Age (years) |  |  |  |  |
| 15-24 | 93.0 (90.6, 94.8) | 50.1 (44.8, 55.4) | 91.1 (88.2, 93.3) | 92.4 (90.2, 94.2) |
| 25-44 | 89.2 (86.7, 91.2) | 49.3 (44.8, 53.8) | 85.6 (82.6, 88.2) | 89.3 (87.1, 91.1) |
| 45-64 | 80.0 (76.1, 83.5) | 39.0 (34.9, 43.4) | 72.6 (68.1, 76.6) | 76.9 (73.0, 80.4) |
| 65+ | 61.4 (54.9, 67.5) | 27.3 (22.2, 33.1) | 51.5 (45.1, 57.9) | 55.3 (48.8, 61.7) |
| Residence |  |  |  |  |
| Urban | 88.1 (84.3, 91.1) | 55.0 (48.8, 61.1) | 85.4 (81.2, 88.9) | 87.2 (83.6, 90.1) |
| Rural | 83.8 (80.0, 87.0) | 35.9 (30.4, 41.9) | 77.4 (72.8, 81.5) | 82.2 (78.6, 85.2) |
| Education Level |  |  |  |  |
| Less than primary school completed | 66.7 (61.5, 71.4) | 23.2 (19.3, 27.5) | 57.8 (52.1, 63.3) | 63.1 (58.0, 67.9) |
| Primary school completed | 85.7 (82.4, 88.4) | 36.8 (31.9, 42.0) | 80.4 (76.4, 83.9) | 83.7 (80.5, 86.5) |
| Secondary school completed | 93.8 (91.8, 95.4) | 50.3 (45.4, 55.1) | 90.3 (87.2, 92.7) | 93.3 (91.1, 94.9) |
| High school completed | 95.1 (93.3, 96.4) | 64.0 (59.3, 68.5) | 93.3 (91.3, 94.9) | 95.6 (94.2, 96.7) |
| College or University + | 95.4 (92.3, 97.2) | 75.3 (68.9, 80.7) | 94.8 (91.7, 96.8) | 95.6 (92.3, 97.6) |
| Occupation/Work status |  |  |  |  |
| Employed | 89.2 (86.5, 91.5) | 50.8 (45.6, 56.0) | 85.3 (81.5, 88.5) | 88.6 (85.9, 90.9) |
| Self-employed | 82.2 (77.9, 85.8) | 38.3 (32.3, 44.5) | $77.4(72.6,81.7)$ | 81.1 (77.4, 84.4) |
| Students | 97.0 (94.9, 98.2) | 61.5 (55.2, 67.4) | 95.5 (91.5, 97.6) | 95.7 (92.6, 97.6) |
| Home makers | 86.7 (82.8, 89.9) | 44.6 (39.7, 49.6) | 79.9 (75.2, 83.9) | 83.6 (79.7, 86.9) |
| Un-employed | 77.5 (72.3, 82.0) | 43.7 (36.6, 51.1) | 74.8 (68.9, 79.9) | 77.5 (72.0, 82.3) |

[^14]Table 9.1 (cont): Percentage of adults $\geq 15$ years old who believe that smoking causes serious illness, stroke, heart attack, or lung cancer, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults who believe that smoking causes... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Serious illness | Stroke | Heart attack | Lung cancer |
|  | Percentage(95\% CI) |  |  |  |
| Current smokers ${ }^{1}$ | 81.3 (77.8, 84.5) | 40.0 (35.3, 45.0) | 78.3 (74.5, 81.6) | 81.0 (77.8, 83.9) |
| Gender |  |  |  |  |
| Male | 81.7 (78.1, 84.8) | 40.4 (35.6, 45.4) | 78.7 (74.9, 82.1) | 81.4 (78.2, 84.3) |
| Female | 73.2 (64.1, 80.8) | 29.7 (20.3, 41.1) | 67.9 (55.8, 77.9) | 70.8 (60.1, 79.7) |
| Age (years) |  |  |  |  |
| 15-24 | 87.3 (82.5, 90.9) | 37.3 (30.6, 44.7) | 86.3 (81.5, 90.0) | 88.1 (83.5, 91.6) |
| 25-44 | 85.5 (82.0, 88.5) | 44.5 (39.3, 50.0) | 83.4 (79.5, 86.7) | 86.3 (83.2, 89.0) |
| 45-64 | 74.8 (69.6, 79.4) | 36.8 (31.4, 42.5) | 70.1 (64.7, 75.0) | 72.8 (68.2, 77.0) |
| 65+ | 59.6 (51.0, 67.7) | 26.3 (19.1, 35.1) | 50.6 (42.6, 58.5) | 54.5 (45.7, 63.1) |
| Residence |  |  |  |  |
| Urban | 83.6 (78.9, 87.5) | 48.7 (41.9, 55.5) | 82.5 (77.7, 86.5) | 84.3 (80.0, 87.8) |
| Rural | 79.4 (74.0, 83.9) | 32.6 (26.1, 39.9) | 74.7 (68.9, 79.7) | 78.3 (73.4, 82.4) |
| Education Level |  |  |  |  |
| Less than primary school completed | 64.4 (58.0, 70.4) | 22.0 (17.3, 27.4) | 57.6 (50.4, 64.4) | 62.5 (56.1, 68.4) |
| Primary school completed | $81.2(75.8,85.6)$ | 33.7 (28.1, 39.9) | 78.6 (72.9, 83.4) | 79.2 (73.8, 83.6) |
| Secondary school completed | 88.8 (84.7, 91.8) | 43.4 (36.9, 50.1) | 85.5 (80.6, 89.3) | 90.3 (86.5, 93.1) |
| High school completed | 91.7 (88.7, 93.9) | 57.7 (51.5, 63.8) | 90.5 (87.2, 93.1) | 92.5 (89.7, 94.7) |
| College or University + | 88.3 (79.5, 93.6) | 68.9 (58.5, 77.7) | 92.3 (86.9, 95.6) | 93.1 (87.1, 96.4) |
| Occupation/Work status |  |  |  |  |
| Employed | 85.6 (81.6, 88.9) | 45.1 (39.0, 51.4) | 82.1 (77.1, 86.3) | 85.9 (81.8, 89.1) |
| Self-employed | 78.8 (73.7, 83.2) | 35.6 (29.7, 42.0) | 75.7 (70.4, 80.3) | 77.6 (72.8, 81.7) |
| Students | 92.0 (82.6, 96.6) | 46.9 (33.6, 60.8) | 93.3 (83.1, 97.5) | 96.5 (87.8, 99.1) |
| Home makers | 83.3 (73.0, 90.1) | 39.6 (25.2, 56.2) | 77.3 (62.1, 87.5) | 75.4 (61.5, 85.5) |
| Un-employed | 70.7 (62.5, 77.7) | 40.3 (30.5, 50.8) | 68.9 (59.1, 77.3) | 73.5 (64.5, 80.9) |

${ }^{1}$ Includes daily and occasional(less than daily) smokers.
${ }^{2}$ Includes former and never smokers.

Table 9.1 (cont): Percentage of a dults $\geq 15$ years old who believe that smoking causes serious illness, stroke, heart attack, or lung cancer, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults who believe that smoking causes... |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Serious illness | Stroke | Heart attack | Lung cancer |
|  | Percentage(95\% CI) |  |  |  |
| Non-smokers ${ }^{2}$ | 88.5 (86.0, 90.5) | 48.4 (44.1, 52.8) | 83.1 (80.0, 85.8) | 86.7 (84.1, 88.8) |
| Gender |  |  |  |  |
| Male | 93.9 (91.9, 95.4) | 59.2 (54.1, 64.1) | 91.6 (89.1, 93.5) | 92.8 (90.7, 94.4) |
| Female | 86.6 (83.7, 89.1) | 44.8 (40.5, 49.2) | 80.3 (76.7, 83.5) | 84.6 (81.6, 87.2) |
| Age (years) |  |  |  |  |
| 15-24 | 95.0 (92.9, 96.5) | 54.6 (48.9, 60.2) | 92.8 (89.8, 94.9) | 93.9 (91.6, 95.7) |
| 25-44 | 91.4 (88.9, 93.4) | 52.1 (47.4, 56.8) | 87.0 (83.8, 89.7) | 91.0 (88.8, 92.8) |
| 45-64 | 83.4 (79.7, 86.6) | 40.5 (36.3, 44.8) | 74.2 (69.4, 78.5) | 79.6 (75.3, 83.3) |
| 65+ | 62.2 (54.7, 69.1) | 27.8 (21.8, 34.7) | 51.9 (44.3, 59.5) | 55.7 (47.9, 63.1) |
| Residence |  |  |  |  |
| Urban | 90.3 (86.4, 93.1) | 58.0 (51.6, 64.1) | 86.8 (82.3, 90.3) | 88.6 (84.9, 91.5) |
| Rural | 86.5 (83.2, 89.2) | 37.9 (32.3, 43.9) | 79.1 (74.6, 83.0) | 84.5 (81.0, 87.5) |
| Education Level |  |  |  |  |
| Less than primary school completed | 68.0 (62.5, 73.1) | 23.9 (19.5, 29.0) | 57.9 (51.8, 63.8) | 63.5 (57.8, 68.8) |
| Primary school completed | 88.3 (85.5, 90.7) | 38.6 (33.3, 44.2) | 81.5 (77.5, 85.0) | 86.4 (83.4, 88.9) |
| Secondary school completed | 96.2 (94.4, 97.5) | 53.5 (48.1, 58.8) | 92.5 (89.4, 94.8) | 94.7 (92.2, 96.4) |
| High school completed | 96.8 (95.0, 97.9) | 67.2 (62.3, 71.8) | 94.8 (92.6, 96.4) | 97.2 (95.6, 98.2) |
| College or University + | 98.1 (96.0, 99.1) | 77.7 (70.9, 83.3) | 95.8 (92.3, 97.7) | 96.6 (92.8, 98.4) |
| Occupation/Work status |  |  |  |  |
| Employed | 92.4 (90.0, 94.3) | 55.9 (49.9, 61.6) | 88.1 (84.4, 91.0) | 91.1 (88.3, 93.3) |
| Self-employed | 85.6 (81.2, 89.1) | 40.9 (34.2, 48.0) | 79.2 (74.0, 83.6) | 84.7 (80.9, 88.0) |
| Students | 97.8 (95.7, 98.9) | 63.9 (57.5, 69.9) | 95.8 (91.9, 97.9) | 95.6 (91.9, 97.7) |
| Home makers | 86.8 (82.8, 90.0) | 44.7 (39.7, 49.8) | 79.9 (75.1, 84.0) | 83.9 (79.8, 87.2) |
| Un-employed | 80.7 (74.9, 85.4) | 45.3 (37.6, 53.3) | 77.6 (70.9, 83.1) | 79.4 (72.5, 85.0) |

${ }^{1}$ Includes daily and occasional(less than daily) smokers.
${ }^{2}$ Includes former and never smokers.

| Demographic Characteristics | Adults who believe that smoking causes... |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | COPD ${ }^{+}$ | Bladder Cancer | Stomach Cancer | Premature Birth | Bone Loss |
|  | Percentage(95\% CI) |  |  |  |  |
| Overall | 36.0 (30.2, 42.4) | 27.7 (24.6, 31.1) | 18.5 (15.9, 21.4) | 49.5 (45.4, 53.6) | 20.4 (17.4, 23.7) |
| Gender |  |  |  |  |  |
| Male | 37.4 (31.4, 43.9) | 27.3 (23.9, 30.9) | 19.2 (16.3, 22.4) | 48.4 (43.9, 52.9) | 20.0 (16.7, 23.7) |
| Female | 34.7 (28.8, 41.1) | 28.2 (24.8, 31.8) | 17.7 (15.1, 20.7) | 50.6 (46.3, 55.0) | 20.8 (17.8, 24.2) |
| Age (years) |  |  |  |  |  |
| 15-24 | 40.2 (33.3, 47.5) | 33.7 (28.7, 39.0) | 19.3 (15.4, 23.9) | 57.3 (51.9, 62.4) | 21.4 (17.0, 26.6) |
| 25-44 | 39.5 (33.1, 46.3) | 30.7 (27.1, 34.5) | 20.9 (18.0, 24.2) | 56.1 (51.7, 60.4) | 23.5 (20.2, 27.0) |
| 45-64 | 30.6 (24.9, 37.0) | 21.1 (18.3, 24.3) | 16.0 (13.4, 18.9) | 37.9 (33.5, 42.5) | 16.6 (14.2, 19.5) |
| 65+ | 18.1 (13.2, 24.4) | 10.5 (7.7, 14.2) | 8.1 (5.9, 11.0) | 19.4 (14.8, 25.1) | 9.9 (7.3, 13.4) |
| Residence |  |  |  |  |  |
| Urban | 35.7 (27.3, 45.1) | 31.3 (27.1, 35.8) | 18.9 (15.9, 22.2) | 58.3 (52.6, 63.8) | 23.3 (19.4, 27.6) |
| Rural | 36.4 (28.5, 45.1) | 24.1 (19.6, 29.4) | 18.0 (14.0, 23.0) | 40.6 (34.7, 46.8) | 17.5 (13.2, 22.8) |
| Education Level |  |  |  |  |  |
| Less than primaryschool completed | 18.4 (13.8, 24.2) | 11.6 (9.3, 14.4) | 10.7 (8.3, 13.6) | 21.8 (17.4, 27.0) | 10.3 (7.9, 13.4) |
| Primaryschool completed | 26.4 (20.6, 33.1) | 22.7 (18.7, 27.3) | 15.5 (12.2, 19.5) | 39.6 (35.0, 44.3) | 15.5 (12.6, 18.9) |
| Secondary school completed | 39.9 (32.6, 47.6) | 33.0 (28.4, 38.0) | 19.6 (15.9, 23.8) | 57.7 (52.5, 62.7) | 24.5 (20.3, 29.2) |
| High school completed | 53.0 (45.4, 60.5) | 39.4 (34.9, 44.0) | 24.7 (21.0, 28.8) | 70.7 (66.3, 74.8) | 27.6 (23.2, 32.5) |
| College or University + | 62.8 (52.6, 71.9) | 44.3 (37.6, 51.2) | 31.0 (25.5, 37.0) | 81.5 (77.0, 85.4) | 35.7 (28.5, 43.5) |
| Occupation/Work status |  |  |  |  |  |
| Employed | 43.2 (36.2, 50.4) | 31.7 (27.6, 36.1) | 20.7 (17.7, 24.0) | 58.4 (53.5, 63.2) | 23.1 (19.5, 27.2) |
| Self-employed | 33.4 (26.6, 41.1) | 24.0 (19.6, 29.1) | 18.8 (14.7, 23.8) | 40.3 (34.8, 46.0) | 18.9 (14.3, 24.6) |
| Students | 43.8 (34.6, 53.5) | 36.0 (30.1, 42.3) | 20.9 (16.0, 26.8) | 61.5 (53.9, 68.6) | 26.1 (19.7, 33.7) |
| Home makers | 30.4 (24.5, 37.1) | 27.7 (24.0, 31.8) | 16.8 (14.1, 19.9) | 50.9 (45.5, 56.3) | 18.7 (15.8, 22.0) |
| Un-employed | 29.0 (21.7, 37.6) | 21.1 (16.3, 26.8) | 10.9 (7.9, 14.8) | 41.4 (35.0, 48.1) | 15.8 (11.8, 20.8) |

[^15]${ }^{+}$COPD $=$Chronic Obstructive Pulmonary Disease
Table 9.1A (cont): Percentage of adults $\geq 15$ years old who believe that smoking causes COPD, bladder cancer, stomach cancer, premature birth, or bone loss, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults who believe that smoking causes... |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | COPD ${ }^{+}$ | Bladder Cancer | Stomach Cancer | Premature Birth | Bone Loss |
|  | Percentage(95\% CI) |  |  |  |  |
| Current smokers ${ }^{1}$ | 32.7 (27.0, 38.9) | 22.8 (19.6, 26.4) | 16.2 (13.5, 19.2) | 42.1 (37.5, 46.8) | 16.8 (13.8, 20.2) |
| Gender |  |  |  |  |  |
| Male | 33.0 (27.3, 39.3) | 23.1 (19.9, 26.8) | 16.4 (13.8, 19.5) | 42.6 (38.0, 47.4) | 16.7 (13.8, 20.2) |
| Female | 23.9 (13.8, 38.2) | 15.2 (8.5, 25.6) | 9.6 (5.4, 16.4) | 28.9 (19.5, 40.6) | 17.4 (9.3, 30.3) |
| Age (years) |  |  |  |  |  |
| 15-24 | 38.5 (30.4, 47.2) | 26.8 (20.4, 34.3) | 17.4 (11.9, 24.7) | 45.0 (36.6, 53.7) | 14.4 (9.8, 20.8) |
| 25-44 | 35.7 (29.6, 42.3) | 24.8 (21.0, 29.0) | 17.0 (14.0, 20.4) | 49.2 (44.4, 54.0) | 19.0 (15.7, 22.9) |
| 45-64 | 26.7 (20.9, 33.5) | 20.0 (16.4, 24.2) | 16.0 (13.2, 19.2) | 34.2 (29.2, 39.6) | 15.7 (12.6, 19.5) |
| 65+ | 18.0 (12.2, 25.7) | 8.4 (4.5, 15.3) | $7.4(4.3,12.4)$ | 12.7 (7.8, 20.0) | 10.6 (6.2, 17.5) |
| Residence |  |  |  |  |  |
| Urban | 32.0 (23.6, 41.8) | 25.2 (20.6, 30.4) | 15.0 (12.0, 18.7) | 49.7 (43.3, 56.2) | 20.3 (16.6, 24.7) |
| Rural | 33.3 (26.0, 41.4) | 20.8 (16.4, 26.1) | 17.2 (13.2, 22.0) | 35.6 (29.3, 42.5) | 13.7 (9.6, 19.3) |
| Education Level |  |  |  |  |  |
| Less than primary school completed | 18.3 (13.3, 24.8) | 10.2 (7.4, 14.0) | 10.7 (8.0, 14.2) | 18.9 (13.9, 25.1) | 9.9 (6.9, 14.0) |
| Primaryschool completed | 25.4 (19.5, 32.4) | 21.2 (16.3, 27.1) | 15.0 (11.4, 19.4) | 34.1 (28.7, 39.9) | 11.7 (8.8, 15.3) |
| Secondary school completed | 36.7 (29.3, 44.8) | 24.5 (19.8, 30.0) | 16.7 (12.6, 21.9) | 51.1 (44.5, 57.7) | 19.2 (14.6, 24.7) |
| High school completed | 49.7 (40.9, 58.4) | 33.4 (28.0, 39.2) | 21.5 (16.5, 27.6) | 62.9 (56.1, 69.2) | 25.0 (19.3, 31.7) |
| College or University + | 51.3 (38.7, 63.7) | 37.7 (27.9, 48.7) | 23.1 (14.7, 34.4) | 70.8 (61.1, 78.9) | 32.1 (22.3, 43.9) |
| Occupation/Work status |  |  |  |  |  |
| Employed | 37.9 (30.9, 45.4) | 25.9 (21.7, 30.7) | 17.8 (14.6, 21.6) | 50.8 (45.1, 56.5) | 20.0 (16.0, 24.7) |
| Self-employed | 29.6 (23.5, 36.5) | 21.2 (17.4, 25.6) | 16.3 (12.8, 20.5) | 36.6 (31.2, 42.4) | 15.2 (11.6, 19.6) |
| Students | 44.3 (28.6, 61.3) | 24.4 (14.3, 38.5) | 17.3 (9.0, 30.7) | 50.6 (34.2, 66.9) | 14.9 (7.8, 26.8) |
| Home makers | 17.9 (8.1, 35.0) | 15.9 (5.8, 36.6) | 11.9 (4.5, 28.0) | 37.8 (22.9, 55.3) | 17.4 (8.2, 33.4) |
| Un-employed | 24.9 (16.2, 36.2) | 18.5 (12.4, 26.6) | 7.1 (3.4, 14.1) | 31.2 (22.7, 41.2) | 10.7 (5.8, 18.9) |

[^16]${ }^{+}$COPD $=$Chronic Obstructive Pulmonary Disease
Table 9.1A (cont): Percentage of adults $\geq 15$ years old who believe that smoking causes COPD, bladder cancer, stomach cancer, premature birth, or bone loss, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Adults who believe that smoking causes... |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | COPD ${ }^{+}$ | Bladder Cancer | Stomach Cancer | Premature Birth | Bone Loss |
|  | Percentage(95\% CI) |  |  |  |  |
| Non-smokers ${ }^{2}$ | 37.8 (31.7, 44.4) | 30.3 (27.0, 33.9) | 19.7 (16.9, 22.8) | 53.4 (49.1, 57.7) | 22.3 (19.0, 26.0) |
| Gender |  |  |  |  |  |
| Male | 46.4 (39.1, 53.8) | 35.7 (31.1, 40.5) | 24.7 (20.7, 29.1) | 60.0 (55.0, 64.8) | 26.5 (21.5, 32.2) |
| Female | 35.0 (29.0, 41.4) | 28.5 (25.1, 32.2) | 18.0 (15.3, 21.0) | 51.2 (46.8, 55.6) | 20.9 (17.8, 24.4) |
| Age (years) |  |  |  |  |  |
| 15-24 | 40.8 (33.7, 48.3) | 36.1 (31.0, 41.5) | 20.0 (16.1, 24.5) | 61.6 (56.3, 66.6) | 23.9 (19.1, 29.4) |
| 25-44 | 41.8 (34.9, 49.1) | 34.3 (30.3, 38.4) | 23.3 (20.0, 27.0) | 60.3 (55.5, 64.9) | 26.1 (22.6, 30.1) |
| 45-64 | 33.1 (26.9, 39.9) | 21.9 (18.7, 25.4) | 16.0 (12.8, 19.8) | 40.3 (35.4, 45.5) | 17.2 (14.3, 20.7) |
| 65+ | 18.2 (12.8, 25.1) | 11.4 (8.1, 15.9) | 8.4 (6.0, 11.6) | 22.5 (17.0, 29.2) | 9.6 (6.8, 13.5) |
| Residence |  |  |  |  |  |
| Urban | 37.4 (28.9, 46.9) | 34.2 (29.9, 38.7) | 20.7 (17.4, 24.4) | 62.3 (56.5, 67.8) | 24.7 (20.4, 29.5) |
| Rural | 38.3 (29.7, 47.6) | 26.1 (21.0, 32.0) | 18.6 (14.1, 24.0) | 43.7 (37.4, 50.1) | 19.8 (15.0, 25.6) |
| Education Level |  |  |  |  |  |
| Less than primary school completed | 18.5 (13.6, 24.6) | 12.4 (9.6, 15.9) | 10.7 (8.0, 14.1) | 23.7 (18.8, 29.4) | 10.6 (7.9, 14.2) |
| Primaryschool completed | 27.0 (20.9, 34.0) | 23.6 (19.3, 28.4) | 15.8 (12.3, 20.1) | 42.8 (37.8, 48.0) | 17.8 (14.4, 21.7) |
| Secondary school completed | 41.3 (33.4, 49.7) | 37.0 (31.5, 42.9) | 20.9 (16.9, 25.6) | 60.8 (54.8, 66.6) | 27.0 (22.0, 32.6) |
| High school completed | 54.7 (47.0, 62.1) | 42.4 (37.7, 47.3) | 26.3 (22.5, 30.4) | 74.7 (70.2, 78.8) | 28.9 (24.3, 34.0) |
| College or University + | 67.2 (57.1, 75.9) | 46.8 (40.0, 53.6) | 34.0 (27.3, 41.4) | 85.6 (80.6, 89.6) | 37.0 (29.8, 44.8) |
| Occupation/Work status |  |  |  |  |  |
| Employed | 47.8 (40.2, 55.5) | 36.7 (32.0, 41.8) | 23.2 (19.5, 27.3) | 65.1 (59.5, 70.4) | 25.8 (21.4, 30.7) |
| Self-employed | 37.4 (29.2, 46.2) | 26.9 (20.9, 33.7) | 21.4 (16.0, 27.9) | 44.0 (37.4, 50.8) | 22.7 (16.6, 30.2) |
| Students | 43.7 (34.0, 54.0) | 37.9 (32.0, 44.2) | 21.5 (16.2, 27.9) | 63.3 (55.7, 70.4) | 27.9 (20.9, 36.2) |
| Home makers | 30.8 (24.7, 37.5) | 28.1 (24.3, 32.1) | 16.9 (14.2, 20.0) | 51.2 (45.7, 56.7) | 18.7 (15.7, 22.1) |
| Un-employed | 30.9 (22.9, 40.2) | 22.3 (16.8, 29.0) | 12.6 (9.2, 17.2) | 46.1 (38.5, 54.0) | 18.1 (13.5, 23.9) |

${ }^{1}$ Includes daily and occasional(less than daily) smokers.
${ }^{2}$ Includes former and never smokers.
${ }^{+}$COPD $=$Chronic Obstructive Pulmonary Disease

Table 9.1B: Percentage of adults $\geq 15$ years old who believe that using smokeless tobacco causes serious illness by the status of smokeless tobacco use and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Smokeless tobacco use causes serious illness... |  |  |
| :---: | :---: | :---: | :---: |
|  | Overall | Among current users ${ }^{1}$ | Among non-users ${ }^{2}$ |
|  | Percentage (95\% CI) |  |  |
| Overall | 23.9 (20.3, 28.1) | 24.5 (16.6, 34.6) | 23.9 (20.2, 28.1) |
| Gender |  |  |  |
| Male | 25.5 (21.6, 29.8) | 39.0 (25.1, 55.0) | 25.3 (21.4, 29.5) |
| Female | 22.4 (18.6, 26.8) | 13.3 (8.0, 21.3) | 22.6 (18.8, 27.0) |
| Age (years) |  |  |  |
| 15-24 | 25.0 (20.9, 29.7) | -- | 24.8 (20.7, 29.4) |
| 25-44 | 26.3 (22.2, 30.8) | 30.5 (17.4, 47.7) | 26.2 (22.2, 30.7) |
| 45-64 | 21.3 (17.4, 25.7) | 31.5 (19.0, 47.4) | 21.1 (17.2, 25.6) |
| 65+ | 14.4 (10.2, 20.0) | 3.4 (1.0, 10.6) | 15.4 (10.8, 21.3) |
| Residence |  |  |  |
| Urban | 21.6 (16.9, 27.3) | 25.9 (14.7, 41.6) | 21.6 (16.8, 27.3) |
| Rural | 26.2 (20.9, 32.4) | 23.7 (13.9, 37.4) | 26.3 (20.9, 32.5) |
| Education Level |  |  |  |
| Less than primary school completed | 17.6 (13.3, 22.9) | 11.5 (5.6, 22.1) | 17.9 (13.5, 23.3) |
| Primary school completed | 22.7 (18.0, 28.3) | 41.1 (24.5, 59.9) | 22.6 (17.8, 28.1) |
| Secondary school completed | 24.4 (20.6, 28.6) | -- | 24.2 (20.4, 28.4) |
| High school completed | 27.4 (22.7, 32.6) | -- | 27.2 (22.6, 32.4) |
| College or University + | 36.5 (28.1, 45.9) | -- | 36.6 (28.1, 46.0) |
| Occupation/Work status |  |  |  |
| Employed | 25.4 (21.2, 30.0) | 28.5 (16.1, 45.3) | 25.3 (21.2, 30.0) |
| Self-employed | 24.8 (19.8, 30.7) | 29.5 (16.9, 46.2) | 24.7 (19.7, 30.6) |
| Students | 27.1 (21.4, 33.6) | -- | 26.8 (21.2, 33.4) |
| Home makers | 21.2 (17.4, 25.7) | 18.8 (10.1, 32.1) | 21.3 (17.4, 25.8) |
| Un-employed | 18.9 (13.9, 25.1) | 1.5 (0.2, 11.0) | 19.4 (14.3, 25.8) |

[^17]Table 9.2: Percentage of adults $\geq 15$ years old who believe that breathing other people's smoke causes serious illness in non-smokers, by smoking status and selected demographic characteristics - GATS Indonesia, 2011.

| Demographic Characteristics | Believe that breathing other people's smoke causes serious illness in non-smokers |  |  |
| :---: | :---: | :---: | :---: |
|  | Overall | Current smokers ${ }^{1}$ | Non-smokers ${ }^{2}$ |
| Percentage(95\% CI ) |  |  |  |
| Overall | 73.7 (70.2, 76.9) | 67.8 (63.4, 71.9) | 76.8 (73.5, 79.8) |
| Gender |  |  |  |
| Male | 74.1 (70.4, 77.5) | 68.3 (63.9, 72.4) | 85.8 (82.9, 88.3) |
| Female | 73.3 (69.5, 76.7) | 55.8 (45.0, 66.1) | 73.7 (69.9, 77.2) |
| Age (years) |  |  |  |
| 15-24 | 82.8 (79.0, 86.0) | 72.7 (66.2, 78.5) | 86.4 (82.6, 89.4) |
| 25-44 | 78.3 (74.8, 81.4) | 73.5 (69.0, 77.5) | $81.2(77.8,84.2)$ |
| 45-64 | 64.4 (60.0, 68.6) | 60.5 (54.8, 66.0) | 66.9 (62.6, 71.0) |
| 65+ | 43.9 (37.3, 50.7) | 40.8 (31.9, 50.4) | 45.2 (38.2, 52.5) |
| Residence |  |  |  |
| Urban | 79.5 (74.8, 83.6) | 75.1 (68.9, 80.3) | 81.6 (77.2, 85.4) |
| Rural | 67.8 (62.5, 72.6) | 61.6 (55.3, 67.6) | 71.5 (66.3, 76.1) |
| Education Level |  |  |  |
| Less than primaryschool completed | 46.4 (41.5, 51.4) | 42.6 (36.7, 48.7) | 48.7 (43.1, 54.4) |
| Primary school completed | 70.1 (65.6, 74.2) | 67.1 (60.6, 72.9) | 71.9 (67.2, 76.1) |
| Secondary school completed | 83.0 (79.9, 85.8) | 76.1 (70.8, 80.7) | 86.2 (83.1, 88.9) |
| High school completed | 89.8 (87.3, 91.8) | 83.7 (79.2, 87.3) | 92.9 (90.6, 94.6) |
| College or University + | 93.2 (89.3, 95.8) | 89.1 (81.3, 93.9) | 94.8 (91.4, 96.9) |
| Occupation/Work status |  |  |  |
| Employed | 80.3 (76.1, 84.0) | 75.0 (69.4, 79.8) | 85.0 (80.9, 88.4) |
| Self-employed | 66.6 (61.2, 71.7) | 62.8 (57.0, 68.2) | 70.5 (64.5, 75.9) |
| Students | 90.4 (86.2, 93.4) | 81.2 (63.8, 91.4) | 91.9 (88.4, 94.4) |
| Home makers | 73.3 (68.9, 77.3) | 67.3 (52.1, 79.6) | 73.5 (69.0, 77.5) |
| Un-employed | 63.9 (57.8, 69.6) | 58.4 (48.3, 67.8) | 66.5 (59.9, 72.5) |

[^18]
## 10. Conclusion and Recommendations

### 10.1. Conclusion

The GATS uses a global standard tool for systematically monitoring adult tobacco use and for tracking key tobacco control indicators that can be utilized by policy makers to strengthen tobacco control activities in Indonesia. In addition, it allows international comparability and opportunities to exchange experiences and to learn lessons from other countries.

The GATS is the first ever nationwide survey that provides comprehensive information on various kinds of tobacco products including smokeless tobacco, and other key indicators of tobacco control, using a nationally representative sample of persons aged 15 years and above. It provides national estimates for both smoking and smokeless tobacco usage by gender, age group, residence, educational level and occupation. In addition, indicators are also available on various dimensions of tobacco control such as exposure to SHS, anti-tobacco information and tobacco advertisements, and expenditure related to tobacco.

The prevalence of tobacco use as reported in GATS is comparable with findings of other nationally representative surveys conducted earlier in Indonesia, such as the National Health Survey, 2004 and the Baseline Health Research of 2007 and 2010.

### 10.2. Recommendations

The results from the GATS provide recent information on tobacco use (both smoked and smokeless) and new information on key indicators related to a package of six policies known as MPOWER; these will help in monitoring and evaluating tobacco control policies and programmes. Major policy recommendations aimed at developing, tracking and implementing more effective tobacco control interventions specifically under WHO's MPOWER guidelines are discussed below.

## M: Monitor

The GATS has provided national representative data on the use of both smoked and smokeless tobacco among the adult population for the year 2011. To effectively monitor tobacco use and the tobacco control programme in Indonesia, regular surveillance of key indicators is necessary.

Strategic activities should include the following:

- Periodic implementation of national surveys using standard GTSS protocol, such as a repeat GATS
- Strengthening of the National Tobacco Control surveillance system by integrating standard "tobacco questions for surveys" (TQS) in ongoing national surveys such as SUSENAS and national family health surveys
- Dissemination of the GATS data to multiple stakeholders for advocacy of tobacco control with a view to implementing the MPOWER policy package as envisaged in the 61st Regional Committee resolution
- Social networking and collaboration among tobacco control experts from various institutions and among tobacco control stakeholders to strengthen the tobacco surveillance system
- Consultation and advocacy with national agencies for technical and financial support to regularly administer surveys under the GTSS
- Strengthening the channel of coordination between local tobacco control networks and the nationwide tobacco control surveillance system
- Applying information technology to establish an efficient and effective tobacco surveillance system.


## P: Protect

The GATS has shown that a large percentage of people are exposed to SHS in the workplace, in public places and at home. The community as a whole, and especially vulnerable groups such as women and children should be protected from tobacco smoke by the following measures:

- Advocate for $100 \%$ smoke-free regulation in public places at the national and subnational levels to protect the community from exposure to tobacco smoke.
- Enforce smoke-free regulation actively and effectively.
- Enhance public awareness using various media campaigns on the harm caused by SHS, and the right of non-smokers to be free from exposure to tobacco smoke.
- Formulate both formal and informal education curricula to enhance knowledge and develop proper attitudes and perceptions among the populace about the harm caused by the use of tobacco and SHS.


## O: Offer help

Many smokers have made a quit attempt in the past 12 months, or have planned to quit. Many smokers have also been advised to quit by health-care providers. To help such people, the following actions should be taken:

- Establish quit-line centres and smoking cessation centres across the entire country to provide counselling/psychobehavioural therapy, as well as NRT, as needed.
- Conduct widespread publicity campaigns and public health education regarding the harm of smoking and SHS.
- Develop counselling skills among health-care providers (public and private) on tobacco cessation services as part of routine health services.
- Provide formal training to students of health professions.
- Integrate tobacco cessation services in primary health-care settings.


## W: Warn

The GATS has shown that the existing warning messages have a limited reach since they are currently in a textual form and presented in tiny words. These warnings, coupled with public education, can be more effective and have a better impact by taking the following measures:

- Use effective pictorial health warnings on all types of cigarette packages, and on all kinds of tobacco products, including imported tobacco products.
- Disseminate information on the health and economic impact of smoking and exposure to SHS.
- Formulate policies to ban smuggling/import of tobacco products without health warnings prefereably pictorial ones.


## E: Enforce

Exposure to tobacco advertisements and promotion of tobacco products have been reported to be very high in the GATS. There is hence a need to formulate effective bans on tobacco advertising, promotion and sponsorship at the national and subnational levels, and enforce the same by taking the following measures:

- Raise social awareness on the harm caused by tobacco, and expose the motives of the tobacco industry for their tobacco promotion activities.
- Coordinate tobacco control activities with government and nongovernmental organizations for the systematic monitoring of advertising by the tobacco industry at every level, especially in remote and isolated areas.
- Complele ban advertising, promotion and sponsorship by the tobacco industry Enforce laws and regulations rigorously at all governmental levels .
- Increase the capacity of call centres dealing with complaints on violation of tobacco control regulations, and provide an effective response system.


## R: Raise taxes on tobacco

As increasing the excise tax on all tobacco products has been referred to as one of the most effective ways of discouraging youth from starting to smoke, reduce the use of tobacco by the community. also In addition, to prevent morbidity and premature mortality, the following measures are recommended:

- Conduct advocacy for raising taxes on cigarettes and other tobacco products, taking into account inflation and rising per capita income in Indonesia.
- Increase the level of public concern regarding illicit cigarettes (locally produced).
- Enhance advocacy for better political commitment of the government and members of parliament to regularly revise and increase taxes on cigarettes and other tobacco products.
- Find innovative ways to control evasion of tax.


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## Appendix A: Estimates of Sampling Errors

The estimates from a sample survey are affected by two types of errors: (1) non-sampling errors, and (2) sampling errors. Non-sampling errors are the result of errors or mistakes that cannot be attributed to sampling and are made during data collection and data processing, such as errors in coverage, response errors, non-response errors, faulty questionnaires, interviewer recording errors, data processing errors, etc. Although numerous efforts were made during the implementation of theGATS to minimize these errors, non-sampling errors are impossible to avoid and difficult to evaluate statistically.

The sample of respondents selected in the GATS was only one of the samples that could have been selected from the same population, using the same design and sample size. Each of these samples would yield results that differed somewhat from the results of the actual sample selected. Sampling errors are a measure of the variability between all possible samples. The extent of variability is not known exactly, but can be estimated statistically from the survey results.

The following sampling error measures are presented for each of the selected indicators:
Value (R): Weighted prevalence estimate of the indicator
Standard error (SE): Sampling errors are usually measured in terms of standard errors for a particular estimate or indicator (R). Standard error of an estimate is thus simply the square root of the variance of that estimate, and is computed in the same units as the estimate.

Sample size ( $N$ ): The total number of observations used to calculate the prevalence estimate ( R )
Design effect: Design effect denoted by "deff" is the ratio of the actual variance of an indicator under the sampling method used in the survey, to the variance calculated under the assumption of simple random sampling. The square root of the design effect, denoted by "deft", is used to show the efficiency of the sample design and is calculated for each estimate as the ratio between the standard error using the given sample design and the standard error that would result if a simple random sample had been used. A DEFT value of 1.0 indicates that the sample design is as efficient as a simple random sample, while a DEFT value above 1.0 indicates an increase in the standard error due to the use of a more complex sample design. In general, for a well-designed survey, DEFT usually ranges from 1 to 3 . It is common, however, for DEFT to be much larger, up to 7 or 8.

Relative standard error (RSE): Relative standard error, also known as coefficient of variation (CV), is the ratio of the standard error to the value of the indicator.

Margin of error (MOE): Margin of error is computed as the product of the desired confidence measure and the standard error of the estimate. The level of confidence is usually based on a value $(Z)$ of the standard normal distribution. For example, for a $95 \%$ level of confidence, we can use $Z=1.96$.

Confidence limits ( $R \pm 1.96 S E$ ): Confidence limits are calculated to show the interval within which the true value for the population can be reasonably assumed to fall. For any given statistic calculated from the survey, the value of that statistic will fall within a range of plus or minus two times the standard error of the statistic in $95 \%$ of all possible samples of identical size and design.

## Calculation of standard error

If the sample of respondents had been selected as a simple random sample, it would have been possible to use straightforward formulae for calculating sampling errors. However, the GATS 2011 sample is the result of a multistage stratified design and, consequently, it was necessary to use more complex formulae. For the calculation of sampling errors from the GATS 2011 data, SPSS version 18 was used. The Taylor linearization method of variance estimation was used for survey estimates that were means or proportions.

The Taylor linearization method treats any percentage or average as a ratio estimate, $r=y / x$, where $y$ represents the total sample value for variable $y$, and $x$ represents the total number of cases in the group or subgroup under consideration. The variance of $r$ is computed using the formula given below:

$$
S E^{2}(r)=\operatorname{var}(r)=\frac{1-f}{x^{2}} \sum_{h=1}^{2}\left[\frac{m_{h}}{m_{h}-1}\left(\sum_{i=1}^{m_{h}} Z_{h i}^{2}-\frac{Z_{h}^{2}}{m_{h}}\right)\right]
$$

in which $Z_{h i}=y_{h i}-r x_{h i}$, and $Z_{h}=y_{h}-r x_{h}$
where $h$ (=1 or 2 ) represents the stratum which is urban or rural, $m_{h}$ is the total number of PSUs selected in the $h$ th stratum,
$y_{h i}$ is the sum of the weighted values of variable $y$ in the ith PSU in the $h$ th stratum, $x_{h i}$ is the sum of the weighted number of cases in the ith PSU in the $h$ th stratum, and $f$ is the overall sampling fraction, which is so small that it is ignored.

The results are presented in this appendix for the country as a whole, for urban and rural areas, and by gender. For each variable or indicator, the type of statistic (mean, proportion or rate) and the base population are given in Table A.1. In addition to the standard error (SE) described above, Tables A. 2 to A. 6 include the value of the estimate (R), the sample size, the design effect (DEFF or DEFT), the relative standard error (SE/R), margin of error (MOE) and the $95 \%$ confidence limits ( $\mathrm{R} \pm 1.96 \mathrm{SE}$ ) for each variable or indicator.

Table A.1: List of Indicators for Sampling Errors, GATS Indonesia, 2011

| Indicator | Estimate | Base Population |
| :---: | :---: | :---: |
| Current Tobacco Users | Proportion | Adults $\geq 15$ years old |
| Current Tobacco Smokers | Proportion | Adults $\geq 15$ years old |
| Current Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Current White Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Current Hand-rolled Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Current Kretek Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Current Users of Smokeless Tobacco | Proportion | Adults $\geq 15$ years old |
| Daily Tobacco Users | Proportion | Adults $\geq 15$ years old |
| Daily Tobacco Smoker | Proportion | Adults $\geq 15$ years old |
| Daily Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Daily White Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Daily Hand-rolled Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Daily Kretek Cigarette Smokers | Proportion | Adults $\geq 15$ years old |
| Daily Users of Smokeless Tobacco | Proportion | Adults $\geq 15$ years old |
| Former Daily Tobacco Smokers Among All Adults | Proportion | Adults $\geq 15$ years old |
| Former Tobacco Smokers Among Ever Daily Smokers | Proportion | Ever daily tobacco smokers $\geq 15$ years old |
| Time to First Tobacco use within 5 minutes of waking | Proportion | Daily tobacco users $\geq 15$ years old |
| Time to First Tobacco use within 6-30 minutes of waking | Proportion | Daily tobacco users $\geq 15$ years old |
| Smoking Quit Attempt in the Past 12 Months | Proportion | Current smokers and former smokers who have been abstinent for less than 12 months |
| Health Care Provider Asked about Smoking | Proportion | Current smokers and former smokers who have been abstinent for less than 12 months and who visited a HCP during the past 12 months |
| Health Care Provider Advised Quitting Smoking | Proportion | Current smokers and former smokers who have been abstinent for less than 12 months and who visited a HCP during the past 12 months |
| Use of Counseling/Advice or Quit Lines for Smoking Cessation | Proportion | Current smokers and former smokers who have been abstinent for less than 12 months |
| Planning to quit, thinking about quitting, or will quit smoking | Proportion | Current smokers $\geq 15$ years old |
| Exposure to SHS at Home | Proportion | Adults $\geq 15$ years old |
| Exposure to SHS at Workplace | Proportion | Adults who work indoors |
| Exposure to SHS in Government Buildings/Offices | Proportion | Adults $\geq 15$ years old who have visited in past 30 days |
| Exposure to SHS in Health Care Facilities | Proportion | Adults $\geq 15$ years old who have visited in past 30 days |
| Exposure to SHS in Restaurants | Proportion | Adults $\geq 15$ years old who have visited in past 30 days |
| Exposure to SHS in Public Transportation | Proportion | Adults $\geq 15$ years old who have visited in past 30 days |
| Last kretek purchase in store | Proportion | Current manufactured cigarette smokers $\geq 15$ years old |
| Last kretek purchase at kiosk | Proportion | Current manufactured cigarette smokers $\geq 15$ years old |
| Noticed Anti-tobacco Information on radio or television | Proportion | Adults $\geq 15$ years old |
| Noticed Health Warning Labels on Cigarette Packages | Proportion | Current smokers $\geq 15$ years old |
| Thinking of Quitting Because of Health Warning Labels on Cigarette Package | Proportion | Current smokers $\geq 15$ years old |
| Noticed Any Cigarette Advertisement or Promotion | Proportion | Adults $\geq 15$ years old |
| Noticed Cigarette Marketing in Stores Where Cigarettes are Sold | Proportion | Adults $\geq 15$ years old |
| Believes that Tobacco Smoking Causes Serious Illness | Proportion | Adults $\geq 15$ years old |
| Believes that Tobacco Smoking Causes Strokes | Proportion | Adults $\geq 15$ years old |
| Believes that Tobacco Smoking Causes Heart Attacks | Proportion | Adults $\geq 15$ years old |
| Believes that Tobacco Smoking Causes Lung Cancer | Proportion | Adults $\geq 15$ years old |
| Believes that Tobacco Smoking Causes Chronic Obstructive Pulmonary Disease (COPD) | Proportion | Adults $\geq 15$ years old |
| Believes that Tobacco Smoking Causes Premature Birth | Proportion | Adults $\geq 15$ years old |
| Believes that Using Smokeless Tobacco Causes Serious Illness | Proportion | Adults $\geq 15$ years old |
| Believes that SHS Causes Serious Illness in Non-Smokers | Proportion | Adults $\geq 15$ years old |
| Number of Cigarettes Smoked per Day (by daily smokers) | Mean | Current daily cigarette smokers $\geq 15$ years old |
| Time since Quitting Smoking (in years) | Mean | Former smokers $\geq 15$ years old |
| Average Amount Spent on 20 Kretek Cigarettes | Mean | Current Kretek cigarette smokers $\geq 15$ years old |
| Monthly Expenditures on Kretek Cigarettes | Mean | Current Kretek cigarette smokers $\geq 15$ years old |
| Age at Daily Smoking Initiation Among Adults Age 20-34 | Mean | Ever daily smokers $\geq 15$ years old |


| Indicator | $\begin{gathered} \text { Estimate } \\ (R) \\ \hline \end{gathered}$ | Standard Error (SE) | Sample size <br> (n) | Design Effect (DEFT) | Relative Error (SE/R) | Margin of Error (MOE) | Lower Limit (R-1.96SE) | Upper Limit (R+1.96SE) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current Tobacco Users | 0.361 | 0.009 | 8227 | 2.632 | 0.024 | 0.017 | 0.344 | 0.378 |
| Current Tobacco Smokers | 0.348 | 0.008 | 8305 | 2.4 | 0.023 | 0.016 | 0.332 | 0.364 |
| Current Cigarette Smokers | 0.348 | 0.008 | 8305 | 2.4 | 0.023 | 0.016 | 0.332 | 0.364 |
| Current White Cigarette Smokers | 0.022 | 0.003 | 8305 | 4.338 | 0.153 | 0.007 | 0.015 | 0.029 |
| Current Hand-rolled Cigarette Smokers | 0.047 | 0.007 | 8305 | 8.436 | 0.143 | 0.013 | 0.034 | 0.061 |
| Current Kretek Cigarette Smokers | 0.315 | 0.009 | 8305 | 3.029 | 0.028 | 0.017 | 0.298 | 0.333 |
| Current Users of Smokeless Tobacco | 0.017 | 0.002 | 8176 | 1.907 | 0.115 | 0.004 | 0.013 | 0.021 |
| Daily Tobacco Users | 0.298 | 0.008 | 8305 | 2.862 | 0.028 | 0.017 | 0.282 | 0.315 |
| Daily Tobacco Smoker | 0.292 | 0.008 | 8305 | 2.782 | 0.028 | 0.016 | 0.276 | 0.309 |
| Daily Cigarette Smokers | 0.292 | 0.008 | 8305 | 2.774 | 0.028 | 0.016 | 0.276 | 0.308 |
| Daily White Cigarette Smokers | 0.016 | 0.002 | 8305 | 3.318 | 0.158 | 0.005 | 0.011 | 0.021 |
| Daily Hand-rolled Cigarette Smokers | 0.038 | 0.006 | 8305 | 7.148 | 0.148 | 0.011 | 0.027 | 0.049 |
| Daily Kretek Cigarette Smokers | 0.259 | 0.009 | 8305 | 3.247 | 0.033 | 0.017 | 0.242 | 0.276 |
| Daily Users of Smokeless Tobacco | 0.012 | 0.001 | 8176 | 1.454 | 0.122 | 0.003 | 0.009 | 0.015 |
| Former Daily Tobacco Smokers Among All Adults | 0.033 | 0.003 | 8305 | 2.135 | 0.087 | 0.006 | 0.027 | 0.039 |
| Former Tobacco Smokers Among Ever Daily Smokers | 0.095 | 0.008 | 2880 | 2.37 | 0.088 | 0.017 | 0.079 | 0.112 |
| Time to First Tobacco use within 5 minutes of waking | 0.068 | 0.01 | 2422 | 4.09 | 0.153 | 0.02 | 0.047 | 0.088 |
| Time to First Tobacco use within 6-30 minutes of waking | 0.315 | 0.023 | 2422 | 6.004 | 0.073 | 0.045 | 0.27 | 0.361 |
| Smoking Quit Attempt in the Past 12 Months | 0.304 | 0.019 | 2909 | 4.814 | 0.062 | 0.037 | 0.267 | 0.341 |
| Health Care Provider Asked about Smoking | 0.405 | 0.03 | 913 | 3.493 | 0.075 | 0.06 | 0.345 | 0.464 |
| Health Care Provider Advised Quitting Smoking | 0.346 | 0.028 | 913 | 3.263 | 0.082 | 0.056 | 0.29 | 0.402 |
| Use of Counseling/Advice or Quit Lines for Smoking Cessation | 0.07 | 0.018 | 877 | 4.483 | 0.261 | 0.036 | 0.034 | 0.106 |
| Planning to quit, thinking about quitting, or will quit smoking | 0.488 | 0.029 | 2851 | 9.497 | 0.059 | 0.057 | 0.431 | 0.545 |
| Exposure to SHS at Home | 0.784 | 0.016 | 8177 | 12.469 | 0.02 | 0.031 | 0.753 | 0.816 |
| Exposure to SHS at Workplace | 0.513 | 0.028 | 1317 | 4.016 | 0.054 | 0.054 | 0.459 | 0.567 |
| Exposure to SHS in Government Buildings/Offices Among Those |  |  |  |  |  |  |  |  |
| Who Visited | 0.634 | 0.024 | 1538 | 3.913 | 0.038 | 0.048 | 0.587 | 0.682 |
| Exposure to SHS in Health Care Facilities Among Those Who Visited | 0.179 | 0.015 | 2656 | 4.234 | 0.086 | 0.03 | 0.149 | 0.209 |
| Exposure to SHS in Restaurants Among Those Who Visited | 0.854 | 0.02 | 2378 | 7.715 | 0.024 | 0.039 | 0.814 | 0.893 |
| Exposure to SHS on Public Transportation Among Those Who |  |  |  |  |  |  |  |  |
| Visited | 0.7 | 0.021 | 2497 | 5.305 | 0.03 | 0.041 | 0.658 | 0.741 |
| Last kretek purchase in store | 0.176 | 0.032 | 2494 | 17.14 | 0.18 | 0.062 | 0.114 | 0.237 |
| Last kretek purchase at kiosk | 0.798 | 0.033 | 2494 | 17.093 | 0.042 | 0.065 | 0.733 | 0.863 |
| Noticed Anti-tobacco Information on radio or television | 0.409 | 0.02 | 8301 | 14.028 | 0.049 | 0.04 | 0.37 | 0.449 |
| Noticed Health Warning Labels on Cigarette Packages | 0.722 | 0.023 | 2855 | 7.714 | 0.032 | 0.046 | 0.676 | 0.768 |
| Thinking of Quitting Because of Health Warning Labels on Cigarette |  |  |  |  |  |  |  |  |
| Package | 0.271 | 0.019 | 2853 | 5.065 | 0.069 | 0.037 | 0.234 | 0.307 |
| Noticed Any Cigarette Advertisement or Promotion | 0.846 | 0.012 | 8292 | 8.731 | 0.014 | 0.023 | 0.823 | 0.869 |
| Noticed Cigarette Marketing in Stores Where Cigarettes are Sold | 0.456 | 0.025 | 8301 | 20.733 | 0.055 | 0.049 | 0.407 | 0.505 |
| Believes that Tobacco Smoking Causes Serious Illness | 0.86 | 0.012 | 8305 | 10.375 | 0.014 | 0.024 | 0.836 | 0.884 |
| Believes that Tobacco Smoking Causes Strokes | 0.455 | 0.022 | 8303 | 15.489 | 0.047 | 0.042 | 0.413 | 0.497 |
| Believes that Tobacco Smoking Causes Heart Attacks | 0.815 | 0.015 | 8303 | 11.782 | 0.018 | 0.029 | 0.786 | 0.843 |
| Believes that Tobacco Smoking Causes Lung Cancer | 0.847 | 0.012 | 8305 | 8.8 | 0.014 | 0.023 | 0.824 | 0.87 |
| Believes that Tobacco Smoking Causes Chronic Obstructive |  |  |  |  |  |  |  |  |
| Pulmonary Disease (COPD) | 0.36 | 0.031 | 8304 | 34.53 | 0.086 | 0.061 | 0.3 | 0.421 |
| Believes that Tobacco Smoking Causes Premature Birth | 0.495 | 0.021 | 8305 | 14.501 | 0.042 | 0.041 | 0.454 | 0.536 |
| Believes that Using Smokeless Tobacco Causes Serious Illness | 0.24 | 0.02 | 8304 | 17.828 | 0.083 | 0.039 | 0.201 | 0.279 |
| Believes that SHS Causes Serious Illness in Non-Smokers | 0.737 | 0.017 | 8301 | 12.1 | 0.023 | 0.033 | 0.704 | 0.77 |
| Number of Cigarettes Smoked per Day (by daily smokers) | 12.828 | 0.325 | 2422 | 3.229 | 0.025 | 0.638 | 12.191 | 13.466 |
| Time since Quitting Smoking (in years) | 9.622 | 0.593 | 282 | 1.367 | 0.062 | 1.162 | 8.46 | 10.784 |
| Average Amount Spent on 20 Kretek Cigarettes | 12718.909 | 300.992 | 2476 | 3.419 | 0.024 | 589.944 | 12128.965 | 13308.852 |
| Monthly Expenditures on Kretek Cigarettes | 198537.27 | 7271.381 | 2476 | 2.69 | 0.037 | 14251.91 | 184285.362 | 212789.176 |
| Age at Daily Smoking Initiation Among Adults Age 20-34 | 17.606 | 0.162 | 861 | 2.159 | 0.009 | 0.318 | 17.288 | 17.924 |


| Indicator | $\begin{gathered} \text { Estimate } \\ (R) \\ \hline \end{gathered}$ | Standard Error (SE) | Sample size <br> (n) | Design Effect (DEFT) | Relative Error (SE/R) | Margin of Error (MOE) | Lower Limit (R-1.96SE) | Upper Limit $(R+1.96 S E)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current Tobacco Users | 0.674 | 0.013 | 3931 | 2.953 | 0.019 | 0.025 | 0.649 | 0.699 |
| Current Tobacco Smokers | 0.67 | 0.013 | 3948 | 2.949 | 0.019 | 0.025 | 0.645 | 0.696 |
| Current Cigarette Smokers | 0.67 | 0.013 | 3948 | 2.947 | 0.019 | 0.025 | 0.645 | 0.695 |
| Current White Cigarette Smokers | 0.043 | 0.007 | 3948 | 4.165 | 0.154 | 0.013 | 0.03 | 0.056 |
| Current Hand-rolled Cigarette Smokers | 0.09 | 0.013 | 3948 | 8.268 | 0.146 | 0.026 | 0.064 | 0.116 |
| Current Kretek Cigarette Smokers | 0.609 | 0.015 | 3948 | 3.689 | 0.025 | 0.029 | 0.58 | 0.638 |
| Current Users of Smokeless Tobacco | 0.015 | 0.003 | 3882 | 2 | 0.183 | 0.005 | 0.01 | 0.021 |
| Daily Tobacco Users | 0.568 | 0.015 | 3948 | 3.438 | 0.026 | 0.029 | 0.539 | 0.596 |
| Daily Tobacco Smoker | 0.567 | 0.015 | 3948 | 3.47 | 0.026 | 0.029 | 0.539 | 0.596 |
| Daily Cigarette Smokers | 0.567 | 0.015 | 3948 | 3.437 | 0.026 | 0.029 | 0.538 | 0.595 |
| Daily White Cigarette Smokers | 0.031 | 0.005 | 3948 | 3.134 | 0.158 | 0.01 | 0.021 | 0.04 |
| Daily Hand-rolled Cigarette Smokers | 0.072 | 0.011 | 3948 | 6.876 | 0.15 | 0.021 | 0.051 | 0.093 |
| Daily Kretek Cigarette Smokers | 0.503 | 0.016 | 3948 | 3.949 | 0.031 | 0.031 | 0.472 | 0.534 |
| Daily Users of Smokeless Tobacco | 0.011 | 0.002 | 3882 | 1.521 | 0.188 | 0.004 | 0.007 | 0.015 |
| Former Daily Tobacco Smokers Among All Adults | 0.06 | 0.005 | 3948 | 2.024 | 0.09 | 0.011 | 0.049 | 0.07 |
| Former Tobacco Smokers Among Ever Daily Smokers | 0.09 | 0.008 | 2750 | 2.239 | 0.091 | 0.016 | 0.074 | 0.106 |
| Time to First Tobacco use within 5 minutes of waking | 0.067 | 0.01 | 2332 | 3.859 | 0.152 | 0.02 | 0.047 | 0.086 |
| Time to First Tobacco use within 6-30 minutes of waking | 0.319 | 0.023 | 2332 | 5.777 | 0.073 | 0.045 | 0.274 | 0.365 |
| Smoking Quit Attempt in the Past 12 Months | 0.298 | 0.019 | 2765 | 4.678 | 0.063 | 0.037 | 0.261 | 0.335 |
| Health Care Provider Asked about Smoking | 0.416 | 0.031 | 858 | 3.313 | 0.074 | 0.06 | 0.356 | 0.477 |
| Health Care Provider Advised Quitting Smoking | 0.357 | 0.029 | 858 | 3.033 | 0.08 | 0.056 | 0.301 | 0.413 |
| Use of Counseling/Advice or Quit Lines for Smoking Cessation | 0.066 | 0.017 | 818 | 3.734 | 0.254 | 0.033 | 0.033 | 0.099 |
| Planning to quit, thinking about quitting, or will quit smoking | 0.489 | 0.029 | 2716 | 9.225 | 0.06 | 0.057 | 0.432 | 0.546 |
| Exposure to SHS at Home | 0.814 | 0.016 | 3899 | 6.39 | 0.019 | 0.031 | 0.783 | 0.845 |
| Exposure to SHS at Workplace | 0.58 | 0.032 | 778 | 3.245 | 0.055 | 0.063 | 0.517 | 0.642 |
| Exposure to SHS in Government Buildings/Offices Among Those |  |  |  |  |  |  |  |  |
| Who Visited | 0.694 | 0.031 | 859 | 3.788 | 0.044 | 0.06 | 0.634 | 0.754 |
| Exposure to SHS in Health Care Facilities Among Those Who Visited | 0.201 | 0.021 | 988 | 2.83 | 0.107 | 0.042 | 0.159 | 0.243 |
| Exposure to SHS in Restaurants Among Those Who Visited | 0.908 | 0.015 | 1467 | 4.128 | 0.017 | 0.03 | 0.878 | 0.938 |
| Exposure to SHS on Public Transportation Among Those Who |  |  |  |  |  |  |  |  |
| Visited | 0.79 | 0.02 | 1088 | 2.718 | 0.026 | 0.04 | 0.75 | 0.83 |
| Last kretek purchase in store | 0.174 | 0.031 | 2391 | 16.04 | 0.178 | 0.061 | 0.113 | 0.235 |
| Last kretek purchase at kiosk | 0.799 | 0.033 | 2391 | 16.134 | 0.041 | 0.065 | 0.734 | 0.863 |
| Noticed Anti-tobacco Information on radio or television | 0.435 | 0.022 | 3946 | 8.075 | 0.052 | 0.044 | 0.391 | 0.479 |
| Noticed Health Warning Labels on Cigarette Packages | 0.733 | 0.024 | 2720 | 7.818 | 0.032 | 0.047 | 0.686 | 0.779 |
| Thinking of Quitting Because of Health Warning Labels on Cigarette |  |  |  |  |  |  |  |  |
| Package | 0.275 | 0.019 | 2718 | 5.179 | 0.071 | 0.038 | 0.237 | 0.313 |
| Noticed Any Cigarette Advertisement or Promotion | 0.911 | 0.01 | 3946 | 5.079 | 0.011 | 0.02 | 0.891 | 0.931 |
| Noticed Cigarette Marketing in Stores Where Cigarettes are Sold | 0.534 | 0.029 | 3946 | 12.953 | 0.053 | 0.056 | 0.478 | 0.59 |
| Believes that Tobacco Smoking Causes Serious Illness | 0.857 | 0.013 | 3948 | 5.678 | 0.015 | 0.026 | 0.831 | 0.883 |
| Believes that Tobacco Smoking Causes Strokes | 0.466 | 0.023 | 3947 | 8.57 | 0.05 | 0.046 | 0.42 | 0.512 |
| Believes that Tobacco Smoking Causes Heart Attacks | 0.829 | 0.014 | 3947 | 5.812 | 0.017 | 0.028 | 0.801 | 0.858 |
| Believes that Tobacco Smoking Causes Lung Cancer | 0.852 | 0.012 | 3948 | 4.45 | 0.014 | 0.023 | 0.828 | 0.875 |
| Believes that Tobacco Smoking Causes Chronic Obstructive |  |  |  |  |  |  |  |  |
| Pulmonary Disease (COPD) | 0.374 | 0.032 | 3947 | 17.074 | 0.085 | 0.062 | 0.312 | 0.437 |
| Believes that Tobacco Smoking Causes Premature Birth | 0.484 | 0.023 | 3948 | 8.191 | 0.047 | 0.045 | 0.439 | 0.528 |
| Believes that Using Smokeless Tobacco Causes Serious Illness | 0.255 | 0.021 | 3947 | 9.015 | 0.082 | 0.041 | 0.215 | 0.296 |
| Believes that SHS Causes Serious Illness in Non-Smokers | 0.741 | 0.018 | 3946 | 6.58 | 0.024 | 0.035 | 0.706 | 0.776 |
| Number of Cigarettes Smoked per Day (by daily smokers) | 12.982 | 0.332 | 2332 | 3.214 | 0.026 | 0.651 | 12.331 | 13.633 |
| Time since Quitting Smoking (in years) | 9.571 | 0.569 | 255 | 1.177 | 0.059 | 1.115 | 8.455 | 10.686 |
| Average Amount Spent on 20 Kretek Cigarettes | 12753.216 | 303.789 | 2375 | 3.315 | 0.024 | 595.427 | 12157.79 | 13348.643 |
| Monthly Expenditures on Kretek Cigarettes | 202083.77 | 7337.213 | 2375 | 2.577 | 0.036 | 14380.94 | 187702.83 | 216464.705 |
| Age at Daily Smoking Initiation Among Adults Aged 20-34 | 17.6 | 0.164 | 846 | 2.204 | 0.009 | 0.32 | 17.28 | 17.921 |


| Indicator | Estimate <br> (R) | Standard Error (SE) | Sample size <br> ( n ) | $\begin{gathered} \text { Design } \\ \text { Effect } \\ \text { (DEFT) } \\ \hline \end{gathered}$ | Relative Error (SE/R) | $\begin{gathered} \mathrm{Margin} \text { of } \\ \text { Error } \\ \text { (MOE) } \\ \hline \end{gathered}$ | Confidence limits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Lower Limit (R-1.96SE) | $\begin{aligned} & \text { Upper Limit } \\ & (R+1.96 S E) \end{aligned}$ |
| Current Tobacco Users | 0.045 | 0.005 | 4296 | 2.553 | 0.112 | 0.01 | 0.035 | 0.055 |
| Current Tobacco Smokers | 0.027 | 0.004 | 4357 | 2.318 | 0.139 | 0.007 | 0.019 | 0.034 |
| Current Cigarette Smokers | 0.027 | 0.004 | 4357 | 2.318 | 0.139 | 0.007 | 0.019 | 0.034 |
| Current White Cigarette Smokers | 0.001 | 0.001 | 4357 | 1.792 | 0.589 | 0.001 | 0 | 0.003 |
| Current Hand-rolled Cigarette Smokers | 0.005 | 0.001 | 4357 | 1.688 | 0.283 | 0.003 | 0.002 | 0.008 |
| Current Kretek Cigarette Smokers | 0.023 | 0.004 | 4357 | 2.387 | 0.152 | 0.007 | 0.016 | 0.03 |
| Current Users of Smokeless Tobacco | 0.02 | 0.003 | 4294 | 2.362 | 0.166 | 0.006 | 0.013 | 0.026 |
| Daily Tobacco Users | 0.03 | 0.003 | 4357 | 1.747 | 0.114 | 0.007 | 0.023 | 0.037 |
| Daily Tobacco Smoker | 0.018 | 0.003 | 4357 | 1.722 | 0.146 | 0.005 | 0.013 | 0.023 |
| Daily Cigarette Smokers | 0.018 | 0.003 | 4357 | 1.722 | 0.146 | 0.005 | 0.013 | 0.023 |
| Daily White Cigarette Smokers | 0.001 | 0.001 | 4357 | 2.149 | 0.733 | 0.001 | 0 | 0.002 |
| Daily Hand-rolled Cigarette Smokers | 0.004 | 0.001 | 4357 | 1.738 | 0.332 | 0.002 | 0.001 | 0.006 |
| Daily Kretek Cigarette Smokers | 0.015 | 0.002 | 4357 | 1.676 | 0.158 | 0.005 | 0.011 | 0.02 |
| Daily Users of Smokeless Tobacco | 0.013 | 0.002 | 4294 | 1.728 | 0.177 | 0.004 | 0.008 | 0.017 |
| Former Daily Tobacco Smokers Among All Adults | 0.006 | 0.002 | 4357 | 1.866 | 0.266 | 0.003 | 0.003 | 0.009 |
| Former Tobacco Smokers Among Ever Daily Smokers | 0.232 | 0.051 | 130 | 1.874 | 0.219 | 0.1 | 0.132 | 0.332 |
| Time to First Tobacco use w ithin 5 minutes of waking | 0.101 | 0.037 | 90 | 1.378 | 0.372 | 0.073 | 0.027 | 0.174 |
| Time to First Tobacco use w ithin 6-30 minutes of w aking | 0.2 | 0.053 | 90 | 1.579 | 0.267 | 0.104 | 0.095 | 0.304 |
| Smoking Quit Attempt in the Past 12 Months | 0.446 | 0.045 | 144 | 1.192 | 0.102 | 0.089 | 0.357 | 0.535 |
| Health Care Provider Asked about Smoking | 0.179 | 0.058 | 55 | 1.249 | 0.326 | 0.114 | 0.064 | 0.293 |
| Health Care Provider Advised Quitting Smoking | 0.13 | 0.052 | 55 | 1.308 | 0.403 | 0.103 | 0.027 | 0.233 |
| Use of Counseling/Advice or Quit Lines for Smoking Cessation | 0.131 | 0.062 | 59 | 1.931 | 0.469 | 0.121 | 0.01 | 0.252 |
| Planning to quit, thinking about quitting, or w ill quit smoking | 0.458 | 0.069 | 135 | 2.546 | 0.15 | 0.135 | 0.323 | 0.592 |
| Exposure to SHS at Home | 0.754 | 0.018 | 4278 | 7.592 | 0.024 | 0.036 | 0.719 | 0.79 |
| Exposure to SHS at Workplace | 0.414 | 0.031 | 539 | 2.083 | 0.074 | 0.06 | 0.354 | 0.474 |
| Exposure to SHS in Government Buildings/Offices Among Those Who Visited | 0.554 | 0.029 | 679 | 2.254 | 0.052 | 0.056 | 0.498 | 0.61 |
| Exposure to SHS in Health Care Facilities Among Those Who Visited | 0.165 | 0.016 | 1668 | 2.906 | 0.094 | 0.03 | 0.135 | 0.196 |
| Exposure to SHS in Restaurants Among Those Who Visited | 0.761 | 0.031 | 911 | 4.766 | 0.041 | 0.06 | 0.701 | 0.822 |
| Exposure to SHS on Public Transportation Among Those Who Visited | 0.624 | 0.028 | 1409 | 4.784 | 0.045 | 0.055 | 0.568 | 0.679 |
| Last kretek purchase in store | 0.218 | 0.066 | 103 | 2.607 | 0.303 | 0.129 | 0.089 | 0.348 |
| Last kretek purchase at kiosk | 0.778 | 0.066 | 103 | 2.599 | 0.085 | 0.13 | 0.648 | 0.908 |
| Noticed Anti-tobacco information on radio or television | 0.384 | 0.02 | 4355 | 7.588 | 0.053 | 0.04 | 0.344 | 0.424 |
| Noticed Health Warning Labels on Cigarette Packages | 0.454 | 0.067 | 135 | 2.439 | 0.148 | 0.132 | 0.322 | 0.586 |
| Thinking of Quitting Because of Health Warning Labels on Cigarette Package | 0.17 | 0.043 | 135 | 1.748 | 0.253 | 0.084 | 0.086 | 0.254 |
| Noticed Any Cigarette Advertisement or Promotion | 0.782 | 0.015 | 4346 | 5.52 | 0.019 | 0.029 | 0.753 | 0.811 |
| Noticed Cigarette Marketing in Stores Where Cigarettes are Sold | 0.378 | 0.023 | 4355 | 9.665 | 0.06 | 0.045 | 0.333 | 0.423 |
| Believes that Tobacco Smoking Causes Serious Illness | 0.863 | 0.013 | 4357 | 6.665 | 0.016 | 0.026 | 0.836 | 0.889 |
| Believes that Tobacco Smoking Causes Strokes | 0.444 | 0.022 | 4356 | 8.424 | 0.049 | 0.043 | 0.401 | 0.487 |
| Believes that Tobacco Smoking Causes Heart Attacks | 0.8 | 0.017 | 4356 | 7.61 | 0.021 | 0.033 | 0.767 | 0.832 |
| Believes that Tobacco Smoking Causes Lung Cancer | 0.842 | 0.014 | 4357 | 6.236 | 0.016 | 0.027 | 0.815 | 0.869 |
| Believes that Tobacco Smoking Causes Chronic Obstructive Pulmonary Disease (COPD) | 0.347 | 0.031 | 4357 | 18.601 | 0.09 | 0.061 | 0.286 | 0.408 |
| Believes that Tobacco Smoking Causes Premature Birth | 0.506 | 0.022 | 4357 | 8.357 | 0.043 | 0.043 | 0.463 | 0.549 |
| Believes that Using Smokeless Tobacco Causes Serious lliness | 0.224 | 0.02 | 4357 | 10.308 | 0.09 | 0.04 | 0.184 | 0.264 |
| Believes that SHS Causes Serious Illness in Non-Smokers | 0.733 | 0.018 | 4355 | 7.289 | 0.025 | 0.035 | 0.697 | 0.768 |
| Number of Cigarettes Smoked per Day (by daily smokers) | 8.053 | 0.773 | 90 | 1.527 | 0.096 | 1.516 | 6.536 | 9.569 |
| Time since Quitting Smoking (in years) | 10.134 | 2.065 | 27 | 1.161 | 0.204 | 4.048 | 6.086 | 14.181 |
| Average Amount Spent on 20 Kretek Cigarettes | 11019.855 | 913.977 | 101 | 2.284 | 0.083 | 1791.396 | 9228.459 | 12811.25 |
| Monthly Expenditures on Kretek Cigarettes | 98979.196 | 10442.259 | 101 | 0.932 | 0.105 | 20466.828 | 78512.368 | 119446.024 |
| Age at Daily Smoking Initiation Among Adults Age 20-34 | 17.944 | 1.109 | 15 | 0.72 | 0.062 | 2.174 | 15.77 | 20.117 |

101 Appendix A: Estimates of Sampling Errors

| Indicator | $\begin{gathered} \text { Estimate } \\ (R) \\ \hline \end{gathered}$ | Standard Error (SE) | Sample size <br> (n) | Design Effect (DEFT) | Relativ e Error (SE/R) | Margin of Error (MOE) | Lower Limit (R-1.96SE) | Upper Limit (R+1.96SE) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current Tobacco Users | 0.33 | 0.011 | 4053 | 2.221 | 0.033 | 0.022 | 0.309 | 0.352 |
| Current Tobacco Smokers | 0.319 | 0.011 | 4102 | 2.22 | 0.034 | 0.021 | 0.298 | 0.341 |
| Current Cigarette Smokers | 0.319 | 0.011 | 4102 | 2.22 | 0.034 | 0.021 | 0.298 | 0.341 |
| Current White Cigarette Smokers | 0.028 | 0.006 | 4102 | 5.125 | 0.207 | 0.011 | 0.017 | 0.04 |
| Current Hand-rolled Cigarette Smokers | 0.024 | 0.006 | 4102 | 6.106 | 0.247 | 0.012 | 0.012 | 0.035 |
| Current Kretek Cigarette Smokers | 0.286 | 0.012 | 4102 | 3.091 | 0.043 | 0.024 | 0.262 | 0.31 |
| Current Users of Smokeless Tobacco | 0.012 | 0.002 | 4024 | 1.613 | 0.178 | 0.004 | 0.008 | 0.017 |
| Daily Tobacco Users | 0.267 | 0.01 | 4102 | 2.221 | 0.039 | 0.02 | 0.246 | 0.287 |
| Daily Tobacco Smoker | 0.263 | 0.01 | 4102 | 2.222 | 0.039 | 0.02 | 0.243 | 0.283 |
| Daily Cigarette Smokers | 0.263 | 0.01 | 4102 | 2.222 | 0.039 | 0.02 | 0.243 | 0.283 |
| Daily White Cigarette Smokers | 0.021 | 0.004 | 4102 | 3.573 | 0.202 | 0.008 | 0.013 | 0.029 |
| Daily Hand-rolled Cigarette Smokers | 0.019 | 0.005 | 4102 | 5.769 | 0.272 | 0.01 | 0.009 | 0.029 |
| Daily Kretek Cigarette Smokers | 0.233 | 0.011 | 4102 | 2.596 | 0.046 | 0.021 | 0.213 | 0.254 |
| Daily Users of Smokeless Tobacco | 0.009 | 0.002 | 4024 | 1.279 | 0.191 | 0.003 | 0.005 | 0.012 |
| Former Daily Tobacco Smokers Among All Adults | 0.037 | 0.004 | 4102 | 2.257 | 0.121 | 0.009 | 0.028 | 0.045 |
| Former Tobacco Smokers Among Ever Daily Smokers | 0.14 | 0.014 | 1337 | 2.429 | 0.119 | 0.027 | 0.087 | 0.14 |
| Time to First Tobacco use within 5 minutes of waking | 0.07 | 0.015 | 1092 | 3.613 | 0.21 | 0.029 | 0.041 | 0.099 |
| Time to First Tobacco use within 6-30 minutes of waking | 0.34 | 0.036 | 1092 | 6.472 | 0.107 | 0.072 | 0.268 | 0.411 |
| Smoking Quit Attempt in the Past 12 Months | 0.359 | 0.031 | 1343 | 5.519 | 0.086 | 0.06 | 0.299 | 0.419 |
| Health Care Provider Asked about Smoking | 0.421 | 0.04 | 403 | 2.655 | 0.095 | 0.079 | 0.343 | 0.5 |
| Health Care Provider Advised Quitting Smoking | 0.356 | 0.034 | 403 | 2.029 | 0.096 | 0.067 | 0.289 | 0.422 |
| Use of Counseling/Advice or Quit Lines for Smoking Cessation | 0.085 | 0.028 | 493 | 4.833 | 0.325 | 0.054 | 0.031 | 0.139 |
| Planning to quit, thinking about quitting, or will quit smoking | 0.506 | 0.045 | 1304 | 10.478 | 0.089 | 0.088 | 0.419 | 0.594 |
| Exposure to SHS at Home | 0.685 | 0.028 | 3998 | 14.123 | 0.04 | 0.054 | 0.631 | 0.739 |
| Exposure to SHS at Workplace | 0.478 | 0.034 | 1000 | 4.508 | 0.07 | 0.066 | 0.412 | 0.544 |
| Exposure to SHS in Government Buildings/Offices Among Those |  |  |  |  |  |  |  |  |
| Who Visited | 0.586 | 0.031 | 951 | 3.781 | 0.053 | 0.061 | 0.525 | 0.647 |
| Exposure to SHS in Health Care Facilities Among Those Who Visited | 0.2 | 0.023 | 1501 | 4.852 | 0.14 | 0.045 | 0.155 | 0.244 |
| Exposure to SHS in Restaurants Among Those Who Visited | 0.874 | 0.016 | 1575 | 3.647 | 0.018 | 0.031 | 0.842 | 0.905 |
| Exposure to SHS on Public Transportation Among Those Who |  |  |  |  |  |  |  |  |
| Visited | 0.702 | 0.027 | 1528 | 5.495 | 0.039 | 0.054 | 0.648 | 0.756 |
| Last kretek purchase in store | 0.194 | 0.043 | 1147 | 13.703 | 0.223 | 0.085 | 0.11 | 0.279 |
| Last kretek purchase at kiosk | 0.788 | 0.044 | 147 | 13.179 | 0.056 | 0.086 | 0.702 | 0.874 |
| Noticed Anti-tobacco Information on radio or television | 0.511 | 0.031 | 4098 | 15.772 | 0.061 | 0.061 | 0.45 | 0.572 |
| Noticed Health Warning Labels on Cigarette Packages | 0.731 | 0.036 | 1307 | 8.495 | 0.049 | 0.07 | 0.66 | 0.801 |
| Thinking of Quitting Because of Health Warning Labels on Cigarette |  |  |  |  |  |  |  |  |
| Package | 0.279 | 0.027 | 1305 | 4.675 | 0.096 | 0.053 | 0.227 | 0.332 |
| Noticed Any Cigarette Advertisement or Promotion | 0.897 | 0.012 | 4095 | 6.747 | 0.014 | 0.024 | 0.873 | 0.921 |
| Noticed Cigarette Marketing in Stores Where Cigarettes are Sold | 0.514 | 0.036 | 4098 | 20.942 | 0.069 | 0.07 | 0.444 | 0.584 |
| Believes that Tobacco Smoking Causes Serious Illness | 0.881 | 0.017 | 4102 | 11.537 | 0.019 | 0.034 | 0.848 | 0.915 |
| Believes that Tobacco Smoking Causes Strokes | 0.55 | 0.031 | 4100 | 16.043 | 0.057 | 0.061 | 0.489 | 0.611 |
| Believes that Tobacco Smoking Causes Heart Attacks | 0.854 | 0.019 | 4100 | 12.294 | 0.023 | 0.038 | 0.816 | 0.892 |
| Believes that Tobacco Smoking Causes Lung Cancer | 0.872 | 0.016 | 4102 | 9.822 | 0.019 | 0.032 | 0.84 | 0.904 |
| Believes that Tobacco Smoking Causes Chronic Obstructive |  |  |  |  |  |  |  |  |
| Pulmonary Disease (COPD) | 0.357 | 0.045 | 4101 | 36.715 | 0.127 | 0.089 | 0.268 | 0.446 |
| Believes that Tobacco Smoking Causes Premature Birth | 0.583 | 0.029 | 4102 | 13.706 | 0.049 | 0.056 | 0.527 | 0.639 |
| Believes that Using Smokeless Tobacco Causes Serious Illness | 0.217 | 0.027 | 4101 | 17.037 | 0.122 | 0.052 | 0.165 | 0.269 |
| Believes that SHS Causes Serious Illness in Non-Smokers | 0.795 | 0.022 | 4098 | 12.256 | 0.028 | 0.043 | 0.752 | 0.839 |
| Number of Cigarettes Smoked per Day (by daily smokers) | 12.254 | 0.394 | 1095 | 2.414 | 0.032 | 0.772 | 11.482 | 13.026 |
| Time since Quitting Smoking (in years) | 9.508 | 0.804 | 153 | 1.391 | 0.085 | 1.576 | 7.932 | 11.084 |
| Average Amount Spent on 20 Kretek Cigarettes | 14095.101 | 445.586 | 1145 | 4.603 | 0.032 | 873.348 | 13221.752 | 14968.449 |
| Monthly Expenditures on Kretek Cigarettes | 214470.94 | 10150.436 | 1145 | 2.388 | 0.047 | 19894.86 | 194576.084 | 234365.794 |
| Age at Daily Smoking Initiation Among Adults Age 20-34 | 17.732 | 0.199 | 422 | 1.465 | 0.011 | 0.389 | 17.342 | 18.121 |


| Indicator | $\begin{gathered} \text { Estimate } \\ (R) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Standard } \\ \text { Error } \\ \text { (SE) } \\ \hline \end{gathered}$ | Sample size <br> (n) | Design Effect (DEFT) | Relative Error (SE/R) | Margin of Error (MOE) | Lower Limit (R-1.96SE) | Upper Limit (R+1.96SE) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Current Tobacco Users | 0.391 | 0.013 | 4174 | 2.995 | 0.033 | 0.026 | 0.365 | 0.417 |
| Current Tobacco Smokers | 0.377 | 0.012 | 4203 | 2.558 | 0.032 | 0.023 | 0.353 | 0.4 |
| Current Cigarette Smokers | 0.376 | 0.012 | 4203 | 2.558 | 0.032 | 0.023 | 0.353 | 0.4 |
| Current White Cigarette Smokers | 0.016 | 0.003 | 4203 | 2.701 | 0.202 | 0.006 | 0.009 | 0.022 |
| Current Hand-rolled Cigarette Smokers | 0.071 | 0.012 | 4203 | 9.623 | 0.173 | 0.024 | 0.047 | 0.095 |
| Current Kretek Cigarette Smokers | 0.345 | 0.012 | 4203 | 2.898 | 0.036 | 0.024 | 0.321 | 0.369 |
| Current Users of Smokeless Tobacco | 0.022 | 0.003 | 4152 | 2.038 | 0.147 | 0.006 | 0.016 | 0.029 |
| Daily Tobacco Users | 0.33 | 0.013 | 4203 | 3.442 | 0.041 | 0.026 | 0.304 | 0.357 |
| Daily Tobacco Smoker | 0.322 | 0.013 | 4203 | 3.292 | 0.041 | 0.026 | 0.296 | 0.348 |
| Daily Cigarette Smokers | 0.321 | 0.013 | 4203 | 3.276 | 0.041 | 0.026 | 0.296 | 0.347 |
| Daily White Cigarette Smokers | 0.011 | 0.003 | 4203 | 2.611 | 0.24 | 0.005 | 0.006 | 0.016 |
| Daily Hand-rolled Cigarette Smokers | 0.057 | 0.01 | 4203 | 7.892 | 0.177 | 0.02 | 0.037 | 0.077 |
| Daily Kretek Cigarette Smokers | 0.284 | 0.014 | 4203 | 3.785 | 0.048 | 0.027 | 0.257 | 0.311 |
| Daily Users of Smokeless Tobacco | 0.015 | 0.002 | 4152 | 1.538 | 0.155 | 0.005 | 0.011 | 0.02 |
| Former Daily Tobacco Smokers Among All Adults | 0.029 | 0.004 | 4203 | 1.981 | 0.125 | 0.007 | 0.022 | 0.036 |
| Former Tobacco Smokers Among Ever Daily Smokers | 0.079 | 0.01 | 1543 | 2.266 | 0.131 | 0.02 | 0.059 | 0.099 |
| Time to First Tobacco use within 5 minutes of waking | 0.066 | 0.014 | 1330 | 4.513 | 0.22 | 0.028 | 0.037 | 0.094 |
| Time to First Tobacco use within 6-30 minutes of waking | 0.295 | 0.029 | 1330 | 5.485 | 0.099 | 0.057 | 0.238 | 0.353 |
| Smoking Quit Attempt in the Past 12 Months | 0.256 | 0.023 | 1566 | 4.318 | 0.09 | 0.045 | 0.211 | 0.301 |
| Health Care Provider Asked about Smoking | 0.392 | 0.044 | 510 | 4.101 | 0.112 | 0.086 | 0.306 | 0.478 |
| Health Care Provider Advised Quitting Smoking | 0.339 | 0.043 | 510 | 4.222 | 0.127 | 0.084 | 0.254 | 0.423 |
| Use of Counseling/Advice or Quit Lines for Smoking Cessation | 0.052 | 0.022 | 384 | 3.756 | 0.424 | 0.043 | 0.009 | 0.095 |
| Planning to quit, thinking about quitting, or will quit smoking | 0.472 | 0.037 | 1547 | 8.681 | 0.079 | 0.073 | 0.399 | 0.546 |
| Exposure to SHS at Home | 0.882 | 0.017 | 4179 | 11.616 | 0.019 | 0.033 | 0.849 | 0.916 |
| Exposure to SHS at Workplace | 0.624 | 0.033 | 317 | 1.468 | 0.053 | 0.065 | 0.559 | 0.689 |
| Exposure to SHS in Government Buildings/Offices Among Those |  |  |  |  |  |  |  |  |
| Who Visited | 0.712 | 0.037 | 587 | 3.962 | 0.052 | 0.073 | 0.639 | 0.785 |
| Exposure to SHS in Health Care Facilities Among Those Who Visited | 0.151 | 0.019 | 1155 | 3.263 | 0.126 | 0.037 | 0.114 | 0.189 |
| Exposure to SHS in Restaurants Among Those Who Visited | 0.817 | 0.048 | 803 | 12.274 | 0.059 | 0.094 | 0.723 | 0.911 |
| Exposure to SHS on Public Transportation Among Those Who |  |  |  |  |  |  |  |  |
| Visited | 0.696 | 0.033 | 969 | 5.013 | 0.048 | 0.065 | 0.631 | 0.761 |
| Last kretek purchase in store | 0.16 | 0.045 | 1347 | 20.452 | 0.283 | 0.089 | 0.071 | 0.248 |
| Last kretek purchase at kiosk | 0.806 | 0.049 | 1347 | 20.536 | 0.061 | 0.096 | 0.711 | 0.902 |
| Noticed Anti-tobacco Information on radio or television | 0.307 | 0.026 | 4203 | 12.897 | 0.083 | 0.05 | 0.257 | 0.357 |
| Noticed Health Warning Labels on Cigarette Packages | 0.715 | 0.031 | 1548 | 7.096 | 0.043 | 0.06 | 0.655 | 0.775 |
| Thinking of Quitting Because of Health Warning Labels on Cigarette |  |  |  |  |  |  |  |  |
| Package | 0.263 | 0.026 | 1548 | 5.434 | 0.099 | 0.051 | 0.212 | 0.315 |
| Noticed Any Cigarette Advertisement or Promotion | 0.795 | 0.02 | 4197 | 10.179 | 0.025 | 0.039 | 0.756 | 0.834 |
| Noticed Cigarette Marketing in Stores Where Cigarettes are Sold | 0.397 | 0.035 | 4203 | 21.532 | 0.088 | 0.069 | 0.329 | 0.466 |
| Believes that Tobacco Smoking Causes Serious Illness | 0.838 | 0.017 | 4203 | 9.449 | 0.021 | 0.034 | 0.804 | 0.872 |
| Believes that Tobacco Smoking Causes Strokes | 0.359 | 0.029 | 4203 | 15.541 | 0.081 | 0.057 | 0.302 | 0.416 |
| Believes that Tobacco Smoking Causes Heart Attacks | 0.774 | 0.022 | 4203 | 11.627 | 0.028 | 0.043 | 0.731 | 0.817 |
| Believes that Tobacco Smoking Causes Lung Cancer | 0.822 | 0.017 | 4203 | 8.049 | 0.02 | 0.033 | 0.789 | 0.854 |
| Believes that Tobacco Smoking Causes Chronic Obstructive |  |  |  |  |  |  |  |  |
| Pulmonary Disease (COPD) | 0.364 | 0.042 | 4203 | 32.268 | 0.116 | 0.083 | 0.281 | 0.447 |
| Believes that Tobacco Smoking Causes Premature Birth | 0.406 | 0.031 | 4203 | 16.359 | 0.075 | 0.06 | 0.346 | 0.466 |
| Believes that Using Smokeless Tobacco Causes Serious Illness | 0.262 | 0.029 | 4203 | 18.562 | 0.111 | 0.057 | 0.205 | 0.32 |
| Believes that SHS Causes Serious Illness in Non-Smokers | 0.678 | 0.025 | 4203 | 12.376 | 0.037 | 0.05 | 0.628 | 0.727 |
| Number of Cigarettes Smoked per Day (by daily smokers) | 13.301 | 0.492 | 1327 | 3.716 | 0.037 | 0.964 | 12.338 | 14.265 |
| Time since Quitting Smoking (in years) | 9.761 | 0.875 | 129 | 1.322 | 0.09 | 1.715 | 8.046 | 11.477 |
| Average Amount Spent on 20 Kretek Cigarettes | 11614.655 | 401.518 | 1331 | 2.827 | 0.035 | 786.975 | 10827.68 | 12401.63 |
| Monthly Expenditures on Kretek Cigarettes | 18543.36 | 10472.4 | 1331 | 3.061 | 0.057 | 20525.9 | 164617.457 | 205669.265 |
| Age at Daily Smoking Initiation Among Adults Age 20-34 | 17.499 | 0.246 | 439 | 2.733 | 0.014 | 0.483 | 17.016 | 17.982 |

## Appendix B: Sample Design

## B. 1 Introduction

The GATS was the first survey of its kind conducted in Indonesia (in 2011) to monitor tobacco use and was designed to be a nationally representative household survey of all non-institutionalized men and women aged 15 years and above. The main objectives of this survey were to provide estimates of tobacco use, exposure to SHS and frequency of quit attempts, and to monitor tobacco control interventions. The survey design requirements for this study were developed such that precise estimates could be generated for the country as a whole, as well as for two analysis groups defined by gender and urban/rural areas.

The GATS is designed to produce national and subnational estimates among adults across countries. The target population of the GATS in Indonesia included all eligible individuals residing in all geographical areas in Indonesia. It included the civilian non-institutionalized population of men and women aged 15 years and above living in the included areas. This definition is important when completing the household questionnaire, which includes a section where all eligible members of the household are listed and one is randomly chosen to complete the individual questionnaire.

Individuals 15 years of age and above who were explicitly excluded from the survey were those who, at the time that the Household Questionnaire was completed, were:

- non-citizens visiting the country for a few weeks (e.g. tourists, in the country to see friends/relatives, etc.);
- citizens in the military who indicated that their usual place of residence was a military base; or
- citizens who were institutionalized - people in hospitals, prisons, nursing homes and other such institutions; such people were not sampled in the GATS.

Individuals were considered as residents of Indonesia if they were: (i) citizens of, and residing in, Indonesia; or (ii) non-citizens who were living in Indonesia, and considered Indonesia to be their usual country of residence (i.e. they had lived in Indonesia for at least half of the time during the 12 months prior to completing the Household Questionnaire).

## B. 2 Sampling frame

The sampling frame used for the GATS 2011 was mainly CBs of the 2010 Population Census of Indonesia conducted in May 2010. In total, there are 723831 ordinary CBs composed of geographical areas of Indonesia. A CB is an area within a village which is the smallest administrative area and covers $80-120$ households. Therefore, a village is completely divided into several CBs. The definition of urban and rural areas is applied to a village. Therefore, all CBs in a village will have the same type of area as the village they belong to. If a village is an urban village, all CBs in the village will also be urban CBs. On the other hand, if a village is a rural village, all CBs will also be rural.

The primary sampling unit (PSU) for the GATS is then defined as a group of CBs within a subdistrict in a certain area, namely, urban or rural. In this case, a group of urban CBs and a group of rural CBs in a certain subdistrict belong to a separate PSU. In other words, PSU is an area that is somewhere between a CB and subdistrict in size.

All urban CBs in the same subdistrict will be an urban PSU and all rural CBs in the same district will be a rural PSU. Thus, a PSU in a rural area is not a village but a group of CBs classified as rural in the same subdistrict. Similarly, an urban PSU is a group of CBs classified as urban in the same subdistrict. Both urban and rural PSUs may very well have CBs from multiple villages or administrative areas under the subdistrict. So, each subdistrict contributes either one or two PSUs to the GATS frame. It can be said that a PSU for the GATS design is in effect the set of all urban CBs in a subdistrict or the set of all rural CBs in a subdistrict, in order to clearly facilitate separation of PSUs by urban/rural areas. In this way, the GATS sampling frame consists of a list of all PSUs, including small and big islands in Indonesia, regardless whether they are hard to reach (extremely remote) or not. In total, there are 9319 PSUs. On average, there are 78 CBs in a PSU. However, 69 among the 9319 PSUs have less than three CBs.

Remote areas are excluded from the sampling frame. In total, there are 353 PSUs among the 9319 PSUs which are clasified as remote areas. Not all the remote areas are offshore island CBs. Some are in very isolated areas - in forest or mountainous areas, for example. These remote areas constitute approximately $1.62 \%$ of the total population, as shown in Table B.1.

Table B.1. Total number of PSUs by classification of areas - GATS Indonesia, 2011

| AREAS | PSU | Census block | Household | Population | \% |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Non-remote | 8966 | 710,727 | $60,303,273$ | $233,675,183$ | 98.38 |
| Remote | 353 | 13,104 | 991,933 | $3,843,740$ | 1.62 |
| TOTAL | 9319 | 723,831 | $61,295,206$ | $237,518,923$ | 100.00 |

Indonesia consists of many islands and is divided into 33 provinces and 497 districts. For implementation of the GATS 2011, these 33 provinces were then stratified into four groups-Sumatra, which covers all provinces in Sumatra island; Java-Bali, which covers all provinces in Java and Bali islands; Kalimantan-Nusa Tenggara, which includes all provinces in Kalimantan and Nusa Tenggara islands; and Eastern, which consists of all other provinces in the eastern part of Indonesia. PSUs were then stratified according to these regions.

The total number of PSUs selected for GATS Indonesia 2011 was 100. According to the GATS standard protocol, the PSUs should be equally distributed between urban and rural areas. Hence, 50 PSUs were selected to represent urban areas, and 50 PSUs were drawn from the rural PSUs. Before a PSU was selected, 50 PSUs in each area were proportionally allocated to each region according to their population size, as shown in TableB.2.

Table B.2. Total number of sample PSUs by place of residence and region - GATS Indonesia, 2011

| Urbanicity | Region | Population | Allocation | Number of <br> PSU samples |
| :---: | :---: | :---: | ---: | :---: |
| 1 | 1 | $18,854,356$ | 7.728082 | 8 |
| 1 | 2 | $87,283,784$ | 35.77615 | 36 |
| 1 | 3 | $8,678,208$ | 3.557051 | 4 |
| 1 | 4 | $7,169,648$ | 2.938718 | 2 |
|  |  |  | URBAN | 50 |
| 2 | 1 | $30,262,700$ | 12.28246 | 12 |
| 2 | 2 | $64,299,312$ | 26.0966 | 26 |
| 2 | 3 | $14,130,412$ | 5.734986 | 6 |
| 2 | 4 | $14,502,404$ | 5.885963 | 6 |
|  |  |  | RURAL | 50 |

## B. 3 Sample design

The GATS 2011 adopted a four-stage stratified cluster sample of households. This design was applied in each stratum. In the first stage, a number of PSUs were selected with PPS. The measure of size (MoS) used to select PSUs was the total number of households in each PSU according to the results of the 2010 Population Census (see Figure B1 for the distribution of districts where PSUs were selected). In the second stage, three SSUs were also selected using PPS, with the MoS as the total number of households in each SSU or CB. For choosing CBs within a selected PSU, in both urban and rural PSUs, a list of CBs was sorted by village within each PSU, implying that use of the village was implicit. Household selection in the third stage was an equal probability systematic selection with 30 households per CB, using a fractional interval technique. Finally, in the fourth stage, one individual was randomly chosen from all the eligible persons in a selected household.

## B. 4 Sample size

The GATS is designed to produce estimates that meet the following precision requirements:

1. Estimates computed at the national level, by urbanicity, gender and the cross of gender and urbanicity should have a $95 \%$ confidence interval with a margin of error of 3 percentage points or less for tobacco use rates of $40 \%$.
2. Sample sizes should be sufficiently large to accommodate the statistical power requirements for tests to detect differences between survey rounds with independently chosen samples.
Assuming a design effect of 2.00 for estimates computed at the national level by urban/rural classification, by gender and by the cross of gender and urban/rural area, the minimum sample sizes needed to accommodate these precision requirements were 2000 respondents in each of the four groups defined by the cross of urban/rural residence and gender. This resulted in a minimum expected respondent sample size of 8000 .

Figure B.1. Distribution of districts where PSUs were selected - GATS Indonesia, 2011


However, in order to compensate for non-response based on the previous surveys done by BPS, the following information was used to fix the number of households sampled:

- Total number of respondents in the stratum

$$
-4000
$$

- Individual eligibility rate - 98\%
- Individual response rate - 95\%
- Household eligibility rate - 100\%
- Household response rate - 97\%
- Percentage of households with at least one eligible respondent - 99\%

| Total number of selected people within households | $: 4000 /\left(0.98^{*} 0.95\right)$ | $=4297$ |
| :--- | :--- | :--- |
| Total number of selected households | $: 4297 /\left(1^{*} 0.97^{*} 0.99\right)$ | $=4475$ |
| So the total household sample will be | $: 2^{*} 4475$ | $=8950$ |

As a result, the number of households selected in each CB was fixed at 30 households and the final adjusted sample size of 9000 households was used.

## B. 5 Sampling probabilities and sampling weights

The weighting process for the GATS involved a three-step process: (1) the base weight or design weight, calculated from all steps of random selection in the sample design, (2) an adjustment for non-response by sample households and sample individuals eligible for the survey, and (3) a post-stratification adjustment (calibration) of sample totals with the known population totals.

## B.5.1 Base weight

The inverse of the unconditional probability of selection was the final selection weight (base weight) for each respondent, which is the product of the probabilities of selection associated with each stage of the design. In order to calculate the sampling weights, sampling probabilities were calculated separately for each sampling stage:
$p_{h i}^{(1)}=\quad$ Unconditional probability of selecting the $i$-th PSU in the $h$-th stratum;
$p_{h i j}^{(2)}=$ Conditional probability (given PSU selections) of selecting the CB;
$p_{\text {hijk }}^{(3)}=\quad$ Conditional probability (given PSU and CB selections) of selecting the household;
$p_{\text {hijkl }}^{(4)}=$ Conditional probability (given PSU, CB and household selections) of randomly selecting one respondent per household

The unconditional joint probability of selecting an individual (the hijkl -th person) into the GATS sample is then:

$$
p_{h i j k l}=p_{h i}^{(1)} * p_{h i j}^{(2)} * p_{h i j k}^{(3)} * p_{h i j k l}^{(4)}
$$

Thus, the associated base weight for the individual is:

$$
B_{h i j k l}=\frac{1}{p_{h i j k l}}=\frac{1}{p_{h i}^{(1)} * p_{h i j}^{(2)} * p_{h i j k}^{(3)} * p_{h i j k l}^{(4)}}
$$

Each of the selection probabilities in the above equation were calculated are as follows:

- The selection probabilities of $i$-th PSU was given by

$$
p_{h r i}^{(1)}=\frac{a_{h r} M_{h r i}}{M_{h r}}
$$

where $\quad \mathrm{M}_{\text {hri }}$ is the number of household of $i$-th PSU in $h$-th stratum, $r$-th region
$M_{h r}$ is the number of household in $h$-th stratum, $r$-th region
$a_{h r}$ is the number of PSUs selected in $h$-th stratum ( $h=1,2$ ), $r$-th region

$$
(r=1,2,3,4)
$$

- The selection probabilities at the second stage were

$$
p_{h r i j}^{(2)}=\frac{n_{h r i} M_{h r i j}}{M_{h r i}}
$$

where $\quad \mathrm{M}_{\text {hrij }}$ is the number of household of $j$-th CB , $i$-th PSU in $h$-th stratum, $r$-th region
$\mathrm{M}_{\text {hri }}$ is the number of household of $i$-th PSU in $h$-th stratum, $r$-th region
$n_{\text {hri }}$ is the number of CBs selected ( $=3$ ) in $i$-th PSU, $h$-th stratum ( $h=1,2$ ),
$r$-th region ( $r=1,2,3,4$ ).

- The selection probabilities at the third stage were

$$
p_{h r i j}^{(3)}=\frac{m_{h r i j}}{M_{h r i j}^{*}}
$$

where $\quad \mathrm{M}^{*}{ }_{\text {hrij }}$ is the number of updated household of $j$-th CB , $i$-th PSU in $h$-th stratum, $r$-th region $\mathrm{m}_{\text {hrij }}$ is the number of households selected $(=30)$ in $j$-th CB, $i$-th PSU,

$$
r \text {-th region }(r=1,2,3,4), h \text {-th stratum }(h=1,2) \text {. }
$$

- The selection probabilities at the fourth stage were

$$
p_{h r i j k}^{(4)}=\frac{1}{R_{h r i j k}}
$$

where $\quad R_{\text {hrijk }}$ is the number of eligible person in $k$-th households, $j$-th CB, $i$-th PSU,
$r$-th region ( $r=1,2,3,4$ ), $h$-th stratum ( $h=1,2$ ).

## B.5.2 Adjustment for unit non-response

The base weights were adjusted for non-response on two factors: household-level non-response adjustments, and person-level non-response adjustments. Household-level non-response adjustments were made within the PSU. The corresponding household-level weighting class adjustment was computed as one divided by the weighted household response rate for each sample PSU. The person-level response rate was computed by roster-reported gender, age and current smoking status.

## B.5.3 Post-stratification calibration adjustment

In principle, the goal of a calibration weight adjustment is to bring weighted sums of the sample data in line with the corresponding counts in the target population. Provisional population total projections of persons 15 years and above by urban/rural residence, and respondent-reported gender and age groups (15-24, 25-44, 45-64 and 65+ years) from the population projection of the 2010 Population Census of Indonesia in September 2011 were used for post-stratification calibration adjustment.

Ultimately, the final analysis weight (W) for the $j$-th respondent data record was computed as the product of the base weights, the non-response adjustment and post-stratification calibration adjustment. The final weights were used in all analyses to produce estimates of population parameters.

## Appendix C: Glossary and Abbreviations

| Adults | Population 15 years of age and above |
| :---: | :---: |
| Awareness of cigarette advertising, promotion and sponsorship | Respondents who have noticed cigarettes at the point of sale, free gifts or discount offers on other products when buying cigarettes, or any advertisements or signs promoting cigarettes in stores where cigarettes are sold, in the past 30 days, or who have noticed any advertisement or sign promoting cigarettes of cigarette companies, sponsorships of sporting events other than in stores where cigarettes are sold, in the past 30 days |
| Beliefs about the dangers of second-hand smoke | Respondents who believe that breathing other people's smoke causes serious illness in nonsmokers. |
| Beliefs about the dangers of tobacco smoking | Respondents who believe that tobacco smoking causes serious illness and specific diseases, i.e. stroke, heart attack, lung cancer, COPD, Bladder Cancer, Stomach cancer, premature birth and bone loss. |
| BPS | Badan Pusat Statistik—BPS Statistics Indonesia. It is national statistical organization working under the Ministry of Planning, Indonesia. |
| CB | Census Block |
| CCT | Conditional Cash Transfer |
| CDC | US Centers for Disease Control and Prevention |
| COPD | Chronic Obstructive Pulmonary Disease |
| Current smokeless tobacco user | Smokeless tobacco user who daily or occasionally uses any smokeless tobacco product |
| Current smoking | It includes daily smoking and occasional smoking: <br> 1. Daily smoking means smoking at least one tobacco product every day or nearly every day over a period of a month or more <br> 2. Occasional smoking (less than daily) |
| DALY | Disability-Adjusted Life Year |
| Exposure to antismoking information | Respondents who have noticed information on various media in the past 30 days about the dangers of cigarette smoking and those that encourage quitting |
| Exposure to secondhand smoke at home | Exposure to second-hand smoke particularly inside the respondent's home, not including outside areas such as patio, balcony, garden, etc. which are not fully enclosed |
| Exposure to secondhand smoke in public places | Includes smoking by respondents and seeing somebody smoke, smelling the smoke, or seeing cigarette butts in indoor areas in public places visited by them in the past 30 days. Public places include: <br> - Government buildings: Covers indoor areas which are designated non-smoking areas by national smoke-free laws <br> - Health-care facilities: Covers indoor areas of both public and private health-care facilities which are designated non-smoking areas by national smoke-free laws <br> - Restaurants: Covers the indoor areas of places selling food and/or beverages, and does not include the area in front of any building and wayside <br> - Public transportation: Cll public transport both with and without air conditioning |
| FCTC | Framework Convention on Tobacco Control |
| GATS | Global Adult Tobacco Survey |
| GDP | Gross Domestic Product |
| GHPSS | Global Health Professions Students Survey |
| GSPS | Global School Personnel Survey |
| GSS | General Survey System |
| GTSS | Global Tobacco Surveillance System |
| GYTS | Global Youth Tobacco Survey |
| HCP | Health-Care Provider; includes various health professionals such as medical doctors, nurses, |

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|  | pharmacists, health workers, etc. |
| :---: | :---: |
| Interest in quitting smoking | Current tobacco smokers who are planning or thinking about quitting smoking within the next month, 12 months, or some day |
| MOH | Ministry of Health, Indonesia |
| MoS | Measure of Size |
| MPOWER | WHO publication with six key strategies for tobacco control: <br> - Monitor tobacco use and prevention policies <br> - Protect people from tobacco smoke <br> - Offer help to quit tobacco use <br> - Warn about the dangers of tobacco <br> - Enforce bans on tobacco advertising, promotion and sponsorship <br> - Raise taxes on tobacco |
| NGO | Non-Governmental Organization |
| NIHRD | National Institute of Health Research and Development. It works under the Ministry of Health, Indonesia |
| NIHRD | National Institute for Health Research and Development |
| NRT | Nicotine Replacement Therapy |
| PPS | Probability Proportional to Size |
| Prevalence | Statistical concept referring to the number of occurrences of tobacco use present in a particular population aged 15 years and above at a given time |
| PSU | primary sampling unit |
| QRC | Questionnaire Review Committee. It is a group of international experts for advising a country on questionnaire issues of GATS |
| Quit attempt | Current tobacco smokers who tried to quit during the past 12 months and former tobacco smokers who have been abstinent for >12 months |
| SD | Secure Digital |
| SDF | Standard Data File |
| SHS | Second-Hand Smoke |
| SRC | Sample Review Committee. A group of international experts for advising a country on sample issues of GATS. |
| SSU | Secondary Sampling Unit |
| SUSENAS | National Socio-Economic Survey |
| TCSC | Tobacco Control Support Centre |
| Thinking of quitting because of health warning on cigarette packages | Current tobacco smokers who thought about quitting smoking in the past 30 days because of the warning on cigarette packages |
| Tobacco products | There are two types of tobacco products: <br> 1. Smoked tobacco: <br> a. kretek - a cigarette with cloves <br> b. white cigarette <br> c. hand-rolled cigarette <br> d. other smoked tobacco products such as pipe, cigar, khi-yo, cheroot, water pipe, hookah, and others <br> 2. Smokeless tobacco: <br> a. snuff by keeping in the mouth/nose <br> b. chewing tobacco <br> c. betel quid with tobacco <br> d. others |
| TQS | Tobacco Questions for Surveys |
| WHO | World Health Organization |
| WHO SEARO | World Health Organization, Regional Office for South-East Asia |

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|  | Gagah T. Adi Yuwono | Suwardi |
|  | Muhammad Wisbantoro, | Djoko Sihono |
| 10. YOGYAKARTA | Rio Jakaria | Ir. Dyah Maryanti |
|  | Galuh Widyastuti | Ir. Dyah Maryanti |
|  | Paulus Henri Laksono | Alwan Fauzani |
| 11. JAWA TIMUR | Aminin Ariyanto | Sapto Wintardi |
|  | Andy Patriyanto | Sapto Wintardi |
|  | Bagus Ari Prasetyo, | Supardi, |
|  | H. Indrianto Kukuh | Lukman Hakim |
|  | Nanang Pamungkas | Supardi |
|  | Oanesa Timoralif C | Lukman Hakim |
|  | Abdul Hadi | Benny Kusharyadi |


|  | Didik Santoso | Benny Kusharyadi |
| :---: | :---: | :---: |
|  | Bastian Pratama | Rusmaladewi |
|  | Rudhy Kendarwoko | Vita Wisnandayi |
|  | M. Agung Zulkarnain | Agip Yunaidi Solichin |
|  | Suryanto | Bagyo Trilaksono |
|  | Moch. Hanafi | Yoyok Hari Susanto |
|  | Purwaningsih | Maulan |
|  | Moh. Agus Masrul | Nor Amin Setiawan |
| 12. BANTEN | Andi Yusup | Rinto Tajudin |
|  | Roatul Makhfud | Rinto Tajudin |
|  | Didin Ritaudin | Nana Suharna |
|  | Diasitta Yusuf | M. Nafies |
|  | Raditya Yoga P. | M. Nafies |
| 13. NUSA TENGGARA |  |  |
| BARAT | IGA Nyoman Sawitri | Ir. H. Keman |
|  | Yustini | Baiq Kartini |
| 14. KALIMANTAN BARAT | Firmansyah | Any Pebruana |
|  | Arif Fajar | Munawaroh |
|  | Fahrizal | Munawaroh |
|  | Yusmarini | Tommy |
| 15. KALIMANTAN TENGAH | Retno Setyono | Febrim Leksiando Sipayung, |
|  | Restu Kristianto | Nurdiansyah |
| 16. KALIMANTAN SELATAN | Agung Dwi Permatasari | Sukma Handayani |
|  | Akhyar Arifin Fauzi | M. Husni |
|  | Kharis Metanoia Hendrik |  |
| 17. SULAWESI UTARA | YM | Kusuma Dewi Kris Andriyani |


| 18. SULAWESI SELATAN | Nurlela | Eko Hardiyanto |
| :--- | :--- | :--- |
|  | Andi Alwi | Bahanudding |
|  | Hj. Megawati | Ajirah |
| Ramin | Agustina Rumpa |  |
| 19. MALUKU | Vagustina Rumpa Gema Bwana |  |
|  | Jefry Tipka | Jan Piterzon Lekatompessy |
|  | Jan Piterzon Lekatompessy |  |

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Ben Apelberg, US Food and Drug Administration
Ron Borland, Cancer Council, Victoria
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Mostafa Mohammed, Egyptian Smoking Prevention Research Institute
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GATS partner organizations

Centers for Disease Control and Prevention (CDC)
CDC Foundation
Johns Hopkins Bloomberg School of Public Health (JHSPH)
RTI International
World Health Organization (WHO)

# Appendix E: Questionnaires 

## Household questionnaire

INTRO. [THE HOUSEHOLD SCREENING RESPONDENT SHOULD BE 18 YEARS OF AGE OR OLDER AND YOU MUST BE CONFIDENT THAT THIS PERSON CAN PROVIDE ACCURATE INFORMATION ABOUT ALL MEMBERS OF THE HOUSEHOLD. IF NEEDED, VERIFY THE AGE OF THE HOUSEHOLD SCREENING RESPONDENT TO MAKE SURE HE/SHE IS 18 YEARS OF AGE OR OLDER.

THE HOUSEHOLD SCREENING RESPONDENT CAN BE LESS THAN 18 YEARS OF AGE ONLY IF NO HOUSEHOLD MEMBERS ARE 18 YEARS OF AGE OR OLDER.]

INTRO1. An important survey of adult tobacco use behaviour is being conducted by BPS-Statistics Indonesia throughout Indonesia and your household has been selected to participate. All houses selected were chosen from a scientific sample and it is very important to the success of this project that each participates in the survey. All information gathered will be kept strictly confidential. I have a few questions to find out who in your household is eligible to participate.

HH1. First, l'd like to ask you a few questions about your household. In total, how many persons live in this household?
[INCLUDE ANYONE WHO CONSIDERS THIS HOUSEHOLD THEIR USUAL PLACE OF RESIDENCE]


HH2. How many of these household members are 15 years of age or older?
$\square$
[IF HH2 = 00 (NO HOUSEHOLD MEMBERS > 15 YEARS IN HOUSEHOLD)]
[THERE ARE NO ELIGIBLE HOUSEHOLD MEMBERS.]

THANK THE RESPONDENT FOR HIS/HER TIME.

THIS WILL BE RECORDED IN THE RECORD OF CALLS AS CODE 201.]

HH4. I would now like to collect information about only these persons that live in this household who are 15 years of age or older. Let's start listing them from oldest to youngest.

HH4a. What is the \{oldest/next oldest\} person's first name? $\qquad$

HH4b. What is this person's age?
[IF RESPONDENT DOESN’T KNOW, PROBE FOR AN ESTIMATE]
$\square$
[IF REPORTED AGE IS 15 THROUGH 17 YEARS, BIRTH DATE IS ASKED]

HH4c. What is the month of this person's date of birth?


HH4cYEAR. What is the year of this person's date of birth?
[IF DON'T KNOW, ENTER 7777
IF REFUSED, ENTER 9999]


HH4d. Is this person a man or woman?
$\begin{array}{ll}\text { MAN ................ } \square_{1} \\ \text { WOMAN } & \square_{2}\end{array}$
WOMAN............ $\square 2$

HH4e. Does this person currently smoke tobacco, including cigarettes, kretek cigarettes, cigars, pipes?

YES $\qquad$ $\square 1$
NO $\qquad$ $\square$
DON'T KNOW... $\square_{7}$
REFUSED........... $\square 9$
[REPEAT HH4a - HH4e FOR EACH PERSON REPORTED IN HH2]

HH5. [NAME OF THE SELECTED ELIGIBLE PERSON IS:
\{FILL SELECTED HH MEMBER'S FIRST NAME\}

ASK IF \{FILL SELECTED HH MEMBER'S FIRST NAME\} IS AVAILABLE AND IF SO, PROCEED TO THE INDIVIDUAL QUESTIONNAIRE.

IF \{FILL SELECTED HH MEMBER'S FIRST NAME\} IS NOT AVAILABLE, MAKE AN APPOINTMENT AND RECORD IT AS A COMMENT ON RECORD OF CALLS.]

## Individual questionnaire

## CONSENT1. [SELECT THE APPROPRIATE AGE CATEGORY BELOW. If NEEDED, CHECK THE AGE OF THE SELECTED RESPONDENT FROM THE "CASE INFO" SCREEN IN THE TOOLS MENU.]

15-17 ............................................ $\square_{1} \rightarrow$ GO TO CONSENT 2
18 OR OLDER................................... $\square_{2} \rightarrow$ GO TO CONSENT 5
EMANCIPATED MINOR (15-17) ....... $\square_{3} \rightarrow$ GO TO CONSENT 5

CONSENT2. Before starting the interview, I need to obtain consent from a parent or guardian of [NAME OF RESPONDENT] and from [NAME OF RESPONDENT].
[IF BOTH SELECTED RESPONDENT AND PARENT/GUARDIAN ARE AVAILABLE, CONTINUE WITH INTERVIEW.

If PARENT/GUARDIAN IS NOT AVAILABLE, BREAK OFF INTERVIEW AND SCHEDULE AN APPOINTMENT TO RETURN.

## IF MINOR RESPONDENT IS NOT AVAILABLE, CONTINUE WITH OBTAINING PARENTAL CONSENT.]

## CONSENT3. [READ THE FOLLOWING TO THE PARENT/GUARDIAN AND SELECTED RESPONDENT (IF

 AVAILABLE):]I am working with BPS-Indonesia. This institution is collecting information about tobacco use in Indonesia. This information will be used for public health purposes by the Ministry of Health.

Your household and [NAME OF RESPONDENT]'s have been selected at random. [NAME OF RESPONDENT]'s responses are very important to us and the community, as these answers will represent many other persons.

The interview will last around 30 minutes. [NAME OF RESPONDENT]'s participation in this survey is entirely voluntary. The information that [NAME OF RESPONDENT] will provide will be kept strictly confidential and [NAME OF RESPONDENT] will not be identified by his/her responses. Personal information will not be shared with anyone else, not even other family members including you. [NAME OF RESPONDENT] can withdraw from the study at any time, and may refuse to answer any question.

We will leave the necessary contact information with you. If you have any questions about this survey, you can contact the telephone numbers listed.

If you agree with [NAME OF RESPONDENT]'s participation in this survey, we will conduct a private interview with him/her.
[ASK PARENT/GUARDIAN:] Do you agree with [NAME OF RESPONDENT]'s participation?

YES....... $\square 1 \rightarrow$ GO TO CONSENT4
NO ....... $\square 2 \rightarrow$ END INTERVIEW

CONSENT4. [WAS THE SELECTED MINOR RESPONDENT PRESENT?]

PRESENT................. $\square 1 \rightarrow$ GO TO CONSENT6
NOT PRESENT......... $\square 2 \rightarrow$ GO TO CONSENT5

## CONSENT5. [READ TO THE SELECTED RESPONDENT:]

I am working with BPS-Indonesia. This institution is collecting information about tobacco use in Indonesia. This information will be used for public health purposes by the Ministry of Health.

Your household and you have been selected at random. Your responses are very important to us and the community, as these answers will represent many other persons. The interview will last around 30 minutes. Your participation in this survey is entirely voluntary. The information that you will provide us will be kept strictly confidential, and you will not be identified by your responses. Personal information will not be shared with anyone else, not even other family members. You can withdraw from the study at any time, and may refuse to answer any question.

We will leave the necessary contact information with you. If you have any questions about this survey, you can contact the telephone numbers listed.
\{FILL IF CONSENT4=2: Your parent/guardian has given his/her permission for you to participate in this study\}

If you agree to participate, we will conduct a private interview with you.

CONSENT6. [ASK SELECTED RESPONDENT:] Do you agree to participate?

YES....... $\square 1 \rightarrow$ PROCEED WITH INTERVIEW
NO ....... $\square 2 \rightarrow$ END INTERVIEW

INTLANG. [IS THIS INTERVIEW BEING CONDUCTED IN BAHASA OR IS IT BEING TRANSLATED AND CONDUCTED IN ANOTHER LANGUAGE?]

BAHASA ...............................$1 \rightarrow$ GO TO SECTION A
ANOTHER LANGUAGE. $\qquad$ $\square 2$

INTLANG1. [WHAT LANGUAGE IS THIS INTERVIEW BEING CONDUCTED IN?]

## section A. background characteristics

A00. I am going to first ask you a few questions about your background.

A01. [RECORD GENDER FROM OBSERVATION. ASK IF NECESSARY.]

MEN


WOMEN $\qquad$

A02a. What is the month of your date of birth?


A02b. What is the year of your date of birth?
[IF DON’T KNOW, ENTER 7777
IF REFUSED, ENTER 9999]

[IF MONTH=77/99 OR YEAR=7777/9999, ASK A03. OTHERWISE SKIP TO A04.]

A03. How old are you?
[IF RESPONDENT IS UNSURE, PROBE FOR AN ESTIMATE AND RECORD AN ANSWER. IF REFUSED, BREAK OFF AS WE CANNOT CONTINUE INTERVIEW WITHOUT AGE.]


A03a. [WAS RESPONSE ESTIMATED?]


A04. What is the highest level of education you have completed? [SELECT ONLY ONE CATEGORY]

| LESS THAN PRIMARY SCHOOL CO | 1 |
| :---: | :---: |
| Primary school completed |  |
| SECONDARY SCHOOL COMPLETED. | $\square^{3}$ |
| HIGH SCHOOL COMPLETED | $\square$ |
| COLLEGE/UNIVERSITY COMPLETED. |  |
| POSTGRADUATE DEGREE COMPLETED . | $\square$ |
| DON'T KNOW |  |
| REFUSED ... |  |

A05. Which of the following best describes your *main* work status over the past 12 months? Government employee, nongovernment employee, self-employed, student, home-maker, retired, unemployed-able to work, or unemployed-unable to work? [INCLUDE SUBSISTENCE FARMING AS SELF-EMPLOYED]
GOVERNMENT EMPLOYEE ................................. $\square 1$
NONGOVERNMENT EMPLOYEE ........................... $\square 2$
2
SELF-EMPLOYED/SUBSISTENCE FARMING ........... $\square ~$
3

A06. Please tell me whether this household or any person who lives in the household has the following items:


## section B. tobacco smoking

B00. I would now like to ask you some questions about *smoking* tobacco, including cigarettes, kretek cigarettes, cigars, pipes.

Please do not answer about smokeless tobacco at this time.

B01. Do you *currently* smoke tobacco on a daily basis, less than daily, or not at all?
DAILY ........................... $\square 1 \rightarrow$ SKIP TO B04
LESS THAN DAILY........... $\square 2$
NOT AT ALL................... $\square_{3} \rightarrow$ SKIP TO B03
DON'T KNOW ................ $\square 7 \rightarrow$ SKIP TO NEXT SECTION
REFUSED....................... $\square 9 \rightarrow$ SKIP TO NEXT SECTION

B02. Have you smoked tobacco daily in the past?
YES............................... $\square 1 \rightarrow$ SKIP TO B08
NO ............................. $\square$ $2 \rightarrow$ SKIP TO B10
DON'T KNOW ............... $\square 7 \rightarrow$ SKIP TO B10
REFUSED...................... $\square 9 \rightarrow$ SKIP TO B10

B03. In the *past*, have you smoked tobacco on a daily basis, less than daily, or not at all?
[IF RESPONDENT HAS SMOKED BOTH "DAILY" AND "LESS THAN DAILY" IN THE PAST, CHECK "DAILY"]

DAILY. $\qquad$ $\square 1 \rightarrow$ SKIP TO B11
LESS THAN DAILY........... $\square 2 \rightarrow$ SKIP TO B13
NOT AT ALL.................... $\square 3 \rightarrow$ SKIP TO NEXT SECTION
DON'T KNOW ................ $\square 7 \rightarrow$ SKIP TO NEXT SECTION
REFUSED........................ $\square \mathrm{g} \rightarrow$ SKIP TO NEXT SECTION

## [CURRENT DAILY SMOKERS]

B04. How old were you when you first started smoking tobacco *daily*?
[IF DON'T KNOW OR REFUSED, ENTER 99]
$\square$
[IF B04 = 99, ASK B05. OTHERWISE SKIP TO B06.]

B05. How many years ago did you first start smoking tobacco *daily*?
[IF REFUSED, ENTER 99]
$\square$

B06. On average, how many of the following products do you currently smoke each day? Also, let me know if you smoke the product, but not every day.
[IF RESPONDENT REPORTS SMOKING THE PRODUCT BUT NOT EVERY DAY, ENTER 888

IF RESPONDENT REPORTS IN PACKS OR CARTONS, PROBE TO FIND OUT HOW MANY ARE IN EACH AND CALCULATE TOTAL NUMBER]

| a. Manufactured white cigarettes? |  |  |  | PER DAY |
| :---: | :---: | :---: | :---: | :---: |
| a1. [IF B06a=888] On average, how many manufactured white cigarettes do you currently smoke each week? |  |  |  | PER WEEK |
| b. Hand-rolled (RYO) cigarettes? |  |  |  | PER DAY |
| b1. [IF B06b=888] On average, how many hand-rolled (RYO) cigarettes do you currently smoke each week? |  |  |  | PER WEEK |
| c. Kretek cigarettes? |  |  |  | PER DAY |
| c1. [IF B06c=888] On average, how many kretek cigarettes do you currently smoke each week? |  |  |  | PER WEEK |
| d. Pipes full of tobacco? |  |  |  | PER DAY |
| d1. [IF B06d=888] On average, how many pipes full of tobacco do you currently smoke each week? |  |  |  | PER WEEK |
| e. Cigars? |  |  |  | PER DAY |



B07. How soon after you wake up do you usually have your first smoke? Would you say within 5 minutes, $6-30$ minutes, $31-60$ minutes, or more than 60 minutes?
WITHIN 5 MINUTES.................... $\square 1$
$6-30$ MINUTES ............................ $\square 2$
31-60 MINUTES .......................... $\square_{3}$
MORE THAN 60 MINUTES .......... $\square_{4}$
REFUSED.................................... $\square 9$
[SKIP TO NEXT SECTION]

## [CURRENT LESS THAN DAILY SMOKERS]

B08. How old were you when you first started smoking tobacco *daily*?
[IF DON'T KNOW OR REFUSED, ENTER 99]

[IF B08 = 99, ASK B09. OTHERWISE SKIP TO B10.]

B09. How many years ago did you first start smoking tobacco *daily*?
[IF REFUSED, ENTER 99]
$\square$

B10. How many of the following do you currently smoke during a usual week?
[IF RESPONDENT REPORTS DOING THE ACTIVITY *WITHIN THE PAST 30 DAYS*, BUT LESS THAN ONCE PER WEEK, ENTER 888

IF RESPONDENT REPORTS IN PACKS OR CARTONS, PROBE TO FIND OUT HOW MANY ARE IN EACH AND CALCULATE TOTAL NUMBER]

| a. Manufactured white cigarettes? .................... <br> a <br> b. Hand-rolled (RYO) cigarettes? ......................... |
| :--- |
| c. |
| c. |
| c. Kretek cigarettes? ........................................ |

$\rightarrow$ g1. Please specify the other type you currently smoke during a usual week:
[SKIP TO NEXT SECTION]

## [FORMER SMOKERS]

B11. How old were you when you first started smoking tobacco *daily*?
[IF DON'T KNOW OR REFUSED, ENTER 99]
$\square$
[IF B11 = 99, ASK B12. OTHERWISE SKIP TO B13a.]

B12. How many years ago did you first start smoking tobacco *daily*?
[IF REFUSED, ENTER 99]
$\square$

B13a. How long has it been since you stopped smoking?
[ONLY INTERESTED IN WHEN RESPONDENT STOPPED SMOKING REGULARLY - DO NOT INCLUDE RARE INSTANCES OF SMOKING

ENTER UNIT ON THIS SCREEN AND NUMBER ON NEXT SCREEN]

YEARS $\qquad$
MONTHS........................ $\square 2$
WEEKS ........................... $\square 3$
DAYS $\square 4$
LESS THAN 1 DAY .......... $\square 5 \rightarrow$ SKIP TO B14
DON'T KNOW ................ $\square 7 \rightarrow$ SKIP TO NEXT SECTION
REFUSED....................... $\square \mathrm{g} \rightarrow$ SKIP TO NEXT SECTION

B13b. [ENTER NUMBER OF (YEARS/MONTHS/WEEKS/DAYS)]
$\square$
[IF B13a/b <1 YEAR (<12 MONTHS), THEN CONTINUE WITH B14. OTHERWISE SKIP TO NEXT SECTION.]

B14. Have you visited a doctor or other health-care provider in the past 12 months?
YES................... $\square 1$
NO .................... $\square_{2} \rightarrow$ SKIP TO B18
REFUSED........... $\square 9 \rightarrow$ SKIP TO B18

B15. How many times did you visit a doctor or health-care provider in the past 12 months? Would you say 1 or 2 times, $3-5$ times, or 6 or more times?

| OR 2. | 1 |
| :---: | :---: |
| 3-5 | 2 |
| 6 OR M | 3 |
| REFUSE | 9 |

B16. During any visit to a doctor or health-care provider in the past 12 months, were you asked if you smoke tobacco?
YES $\qquad$
NO .................... $\square 2 \rightarrow$ SKIP TO B18
REFUSED........... $\square 9 \rightarrow$ SKIP TO B18

B17. During any visit to a doctor or health-care provider in the past 12 months, were you advised to quit smoking tobacco?
YES $\qquad$
NO .................... $\square 2$
REFUSED $\qquad$ 9

B18. During the past 12 months, did you use any of the following to try to stop smoking tobacco?


## section C. smokeless tobacco

C00. The next questions are about using smokeless tobacco, such as sirih, betel quid, tobacco leaf, tobacco leaf and betel nut mixture. Smokeless tobacco is tobacco that is not smoked, but is sniffed through the nose, held in the mouth, or chewed.

C01. Do you *currently* use smokeless tobacco on a daily basis, less than daily, or not at all? [IF RESPONDENT DOES NOT KNOW WHAT SMOKELESS TOBACCO IS, EITHER PRESENT A SHOWCARD OR READ DEFINITION FROM QXQ SCREEN]
DAILY ............................ $\square_{1} \rightarrow$ SKIP TO NEXT SECTION
LESS THAN DAILY......... $\square_{2}$
NOT AT ALL................... $\square_{3} \rightarrow$ SKIP TO CO3
DON'T KNOW ............ $\square_{7} \rightarrow$ SKIP TO NEXT SECTION
REFUSED....................... $\square 9 \rightarrow$ SKIP TO NEXT SECTION

CO2. Have you used smokeless tobacco daily in the past?
YES.................................. $\square_{1} \rightarrow$ SKIP TO C19
NO .......................... $\square_{2} \rightarrow$ SKIP TO C19
DON'T KNOW ................. $\square_{7} \rightarrow$ SKIP TO C19
REFUSED................. $\square_{9} \rightarrow$ SKIP TO C19

C03. In the *past*, have you used smokeless tobacco on a daily basis, less than daily, or not at all?
[IF RESPONDENT HAS DONE BOTH "DAILY" AND "LESS THAN DAILY" IN THE PAST, CHECK "DAILY"]
DAILY ............................. $\square_{1} \rightarrow$ SKIP TO NEXT SECTION
LESS THAN DAILY........ $\square_{2} \rightarrow$ SKIP TO NEXT SECTION
NOT AT ALL...................... $\square_{3} \rightarrow$ SKIP TO NEXT SECTION
DON'T KNOW ............. $\square_{7} \rightarrow$ SKIP TO NEXT SECTION
REFUSED.................... $\square_{9} \rightarrow$ SKIP TO NEXT SECTION

C19. [ADMINISTER IF BO1=2 AND C01=2. ELSE GO TO NEXT SECTION.]
You mentioned that you smoke tobacco, but not every day and that you also use smokeless tobacco, but not every day. Thinking about both smoking tobacco and using smokeless tobacco, would you say you currently use tobacco on a daily basis or less than daily?

DAILY ............................. $\square_{1}$
LESS THAN DAILY.......... $\square_{2}$

## REFUSED........................ $\square 9$ <br> section EC. electronic cigarettes

EC1. Have you ever heard of electronic cigarettes?
YES............................... $\square 1$
NO ................................. $\square 2 \rightarrow$ SKIP TO NEXT SECTION
REFUSED....................... $\square 9 \rightarrow$ SKIP TO NEXT SECTION

EC2. Do you *currently* use electronic cigarettes on a daily basis, less than daily, or not at all?
DAILY ............................. $\square_{1}$
LESS THAN DAILY........... $\square_{2}$
NOT AT ALL................... $\square_{3}$
REFUSED........................ $\square_{9}$

## SECTION D1. cessation - TOBACCO SMOKING

IF B01 = 1 OR 2 (RESPONDENT CURRENTLY SMOKES TOBACCO), CONTINUE WITH THIS SECTION.
IF B01 = 3, 7 OR 9 (RESPONDENT DOES NOT CURRENTLY SMOKE TOBACCO), SKIP TO NEXT SECTION.

D01. The next questions ask about any attempts to stop smoking that you might have made during the past 12 months. Please think about tobacco smoking.
During the past 12 months, have you tried to stop smoking?
YES................... $\square 1$
NO .................... $\square 1 \rightarrow$ SKIP TO D04
REFUSED........... $9 \rightarrow$ SKIP TO D04

D02a. Thinking about the last time you tried to quit, how long did you stop smoking?
[ENTER UNIT ON THIS SCREEN AND NUMBER ON NEXT SCREEN]
MONTHS.......................................... $\square 1$
WEEKS .............................................. $\square 2$
DAYS................................................. $\square 3$
LESS THAN 1 DAY (24 HOURS) ......... $\square 4 \rightarrow$ SKIP TO D03
DON'T KNOW ................................... $\square 7 \rightarrow$ SKIP TO D03
REFUSED.......................................... $\square$ g $\rightarrow$ SKIP TO D03

D02b. [ENTER NUMBER OF (MONTHS/WEEKS/DAYS)]
$\square$

D03. During the past 12 months, did you use any of the following to try to stop smoking tobacco?

$\rightarrow$ g1. Please specify what you used to try to stop smoking:

D04. Have you visited a doctor or other health-care provider in the past 12 months?

YES $\square 1$
NO ................... $\square_{2} \rightarrow$ SKIP TO D08
REFUSED........... $\square 9 \rightarrow$ SKIP TO D08

D05. How many times did you visit a doctor or health-care provider in the past 12 months? Would you say 1 or 2 times, $3-5$ times, or 6 or more times?
1 OR 2............... $\square_{1}$
3-5 ................. $\square_{2}$
6 OR MORE....... $\square_{3}$
REFUSED......... $\square_{9}$

D06. During any visit to a doctor or health-care provider in the past 12 months, were you asked if you smoke tobacco?

YES $\qquad$
NO ................... $\square 2 \rightarrow$ SKIP TO D08
REFUSED $\qquad$ $9 \rightarrow$ SKIP TO D08

D07. During any visit to a doctor or health-care provider in the past 12 months, were you advised to quit smoking tobacco?

YES............................ $\square_{1}$
NO ................. $\square_{2}$
REFUSED........ $\square_{9}$

D08. Which of the following best describes your thinking about quitting smoking? I am planning to quit within the next month, I am thinking about quitting within the next 12 months, I will quit some day but not within the next 12 months, or I am not interested in quitting?

```
QUIT WITHIN THE NEXT MONTH
```

$\qquad$

```\(\square 1\)
```

THINKING WITHIN THE NEXT 12 MONTHS ..... $\square 2$
QUIT SOMEDAY, BUT NOT NEXT 12 MONTHS ..... $\square 3$
NOT INTERESTED IN QUITTING ..... $\square 4$

```DON'T KNOW ........................................................ \(\square_{7}\)
```

$\qquad$

## sEction E. sECOND-HAND SMOKE

E01. I would now like to ask you a few questions about smoking in various places.
Which of the following best describes the rules about smoking inside your home: Smoking is allowed inside of your home, smoking is generally not allowed inside your home but there are exceptions, smoking is never allowed inside your home, or there are no rules about smoking in your home?

| ALLOWED | 1 |
| :---: | :---: |
| NOT ALLOWED, BUT EXCEPTIONS . | $\square 2$ |
| NEVER ALLOWED | $\square 3 \rightarrow$ SKIP TO EO4 |
| NO RULES | $4 \rightarrow$ SKIP TO E03 |
| DON'T KNOW. | $7 \rightarrow$ SKIP TO E03 |
| REFUSED. | $9 \rightarrow$ SKIP TO EO3 |

E02. Inside your home, is smoking allowed in every room?
YES......................... $\square_{1}$
NO .......................... $\square_{2}$
DON'T KNOW ........ $\square_{7}$
REFUSED.............. $\square_{9}$

E03. How often does *anyone* smoke inside your home? Would you say daily, weekly, monthly, less than monthly, or never?


E04. Do you currently work outside of your home?
YES...................................... $\square_{1}$
NO/DON'T WORK.................. $\square_{2} \rightarrow$ SKIP TO E09
REFUSED...................... $\square_{9} \rightarrow$ SKIP TO E09

E05. Do you usually work indoors or outdoors?
INDOORS ................ $\square_{1} \rightarrow$ SKIP TO E07
OUTDOORS............. $\square_{2}$
BOTH ..................... $\square_{3} \rightarrow$ SKIP TO E07
REFUSED................ $\square_{9}$

E06. Are there any indoor areas at your workplace?
YES $\qquad$
$\square$
NO ......................... $\square 2 \rightarrow$ SKIP TO E09
DON'T KNOW ......... $\square 7 \rightarrow$ SKIP TO E09
REFUSED................. $\square 9 \rightarrow$ SKIP TO E09

E07. Which of the following best describes the indoor smoking policy where you work: Smoking is allowed anywhere, smoking is allowed only in some indoor areas, smoking is not allowed in any indoor areas, or there is no policy?
ALLOWED ANYWHERE $\square$
ALLOWED ONLY IN SOME INDOOR AREAS .......... $\square 2$
NOT ALLOWED IN ANY INDOOR AREAS ............... $\square 3$
THERE IS NO POLICY............................................. $\square 4$
DON’T KNOW ....................................................... $\square 7$
REFUSED.............................................................. $\square 9$

E08. During the past 30 days, did anyone smoke in indoor areas where you work?
YES......................... $\square 1$
NO ......................... $\square 2$
DON'T KNOW ......... $\square 7$
REFUSED............... $\square 9$

E09. During the past 30 days, did you visit any government building or government office?
YES......................... $\square 1$
NO ......................... $\square 2 \rightarrow$ SKIP TO E21
DON'T KNOW ......... $\square 7 \rightarrow$ SKIP TO E21
REFUSED................ $\square 9 \rightarrow$ SKIP TO E21

E10. Did anyone smoke inside any government building or government office that you visited in the past 30 days?
YES.......................... $\square 1$
NO ....................... $\square 1$
DON'T KNOW ......... $\square 7$
REFUSED................ $\square 9$

E21. During the past 30 days, did you visit any universities?
YES........................ $\square_{1}$
NO .......................... $\square 2 \rightarrow$ SKIP TO E19
DON'T KNOW ....... $\square 7 \rightarrow$ SKIP TO E19
REFUSED................ $\square 9 \rightarrow$ SKIP TO E19

E22. Did anyone smoke inside any of the universities that you visited in the past 30 days?
YES......................... $\square_{1}$
NO ........................... $\square_{2}$
DON'T KNOW....... $\square_{7}$
REFUSED............... $\square_{9}$

E19. During the past 30 days, did you visit any other schools or educational facilities?

YES $\qquad$
$\square$
NO ......................... $\square 2 \rightarrow$ SKIP TO EE1
DON’T KNOW ......... $\square_{7} \rightarrow$ SKIP TO EE1
REFUSED................ $\square 9 \rightarrow$ SKIP TO EE1

E20. Did anyone smoke inside any of the schools or educational facilities that you visited in the past 30 days?
YES........................... $\square 1$
NO .................... $\square_{2}$
DON'T KNOW ......... $\square_{7}$
REFUSED............. $\square 9$

EE1. During the past 30 days, did you visit any religious facilities?
YES........................... $\square_{1}$
NO ..................... $\square_{2} \rightarrow$ SKIP TO E11
DON'T KNOW ......... $\square_{7} \rightarrow$ SKIP TO E11
REFUSED.............. $\square_{9} \rightarrow$ SKIP TO E11

EE2. Did anyone smoke inside any of the religious facilities that you visited in the past 30 days?
YES......................... $\square 1$
NO .......................... $\square_{2}$
DON'T KNOW ....... $\square 7$

REFUSED. $\qquad$
$\square$ 9

E11. During the past 30 days, did you visit any health-care facility?
YES......................... $\square 1$
NO ......................... $\square 2 \rightarrow$ SKIP TO E13
DON'T KNOW ......... $\square \mathrm{m} \rightarrow$ SKIP TO E13
REFUSED............... $\square \mathrm{g} \rightarrow$ SKIP TO E13

E12. Did anyone smoke inside any of the health-care facilities that you visited in the past 30 days?
YES......................... $\square 1$
NO ........................ $\square 1$
DON'T KNOW ......... $\square 7$
REFUSED................ $\square 9$

E13. During the past 30 days, did you visit any restaurant?

YES $\square$
NO ......................... $\square 2 \rightarrow$ SKIP TO E25
DON'T KNOW ......... $\square 7 \rightarrow$ SKIP TO E25
REFUSED................. $\square 9 \rightarrow$ SKIP TO E25

E14. Did anyone smoke inside any of the restaurants that you visited in the past 30 days?
YES......................... $\square_{1}$
NO ......................... $\square_{2}$
DON'T KNOW ......... $\square_{7}$
REFUSED................. $\square_{9}$

E25. During the past 30 days, did you visit any bar or night club?
YES......................... $\square 1$
NO .......................... $\square 2 \rightarrow$ SKIP TO E15
DON'T KNOW ......... $\square 7 \rightarrow$ SKIP TO E15
REFUSED................ $\square 9 \rightarrow$ SKIP TO E15

E26. Did anyone smoke inside any of the bars or night clubs that you visited in the past 30 days?

YES $\qquad$ $\square 1$

NO $\qquad$
DON'T KNOW ......... $\square 7$
REFUSED................. $\quad \square 9$

E15. During the past 30 days, did you use any public transportation?
YES......................... $\square 1$
NO ........................ $\square 2 \rightarrow$ SKIP TO EE3
DON'T KNOW ......... $\square 7 \rightarrow$ SKIP TO EE3
REFUSED................ $\square 9 \rightarrow$ SKIP TO EE3

E16. Did anyone smoke inside any public transportation that you used in the past 30 days?
YES......................... $\square 1$
NO ......................... $\square 2$
DON'T KNOW ......... $\square 7$
REFUSED................. $\square 9$

EE3. During the past 30 days, did anyone smoke inside any other public places while you were visiting?
YES........................ $\square_{1} \rightarrow$ EE4. Please specify:_
NO ....................... $\square_{2}$
DON'T KNOW ........ $\square_{7}$
REFUSED............... $\square_{9}$

E17. Based on what you know or believe, does breathing other people's smoke cause serious illness in non-smokers?
YES......................... $\square 1$
NO ........................ $\square 1$
DON'T KNOW ......... $\square 7$
REFUSED................ $\square 9$

## SECTION F. ECONOMICS - MANUFACTURED WHITE CIGARETTES

```
IF [B01 = 1 OR 2 (RESPONDENT CURRENTLY SMOKES DAILY OR LESS THAN DAILY)]
AND
[(B06a OR B10a) > O AND <= 888 (RESPONDENT SMOKES MANUFACTURED WHITE CIGARETTES)],
THEN CONTINUE WITH THIS SECTION.
OTHERWISE, SKIP TO NEXT SECTION.
```

F01a. The next few questions are about the last time you purchased manufactured white cigarettes for yourself to smoke.

The last time you bought manufactured white cigarettes for yourself, how many cigarettes did you buy?
[ENTER UNIT ON THIS SCREEN AND NUMBER ON NEXT SCREEN]

| CIGARETTES/STICKS ...................... $\square$ | 1 |
| :---: | :---: |
| PACKS.......................................... | 2 |
| CARTONS...................................... | 3 |
| OTHER (SPECIFY) ............................ $\square$ | $4 \rightarrow$ F01c. [SPECIFY THE UNIT]: |
| NEVER BOUGHT CIGARETTES.......... $\square$ | $5 \rightarrow$ SKIP TO NEXT SECTION |
| REFUSED...................................... $\square$ | $9 \rightarrow$ SKIP TO F03 |

F01b. [ENTER NUMBER OF (CIGARETTES/STICKS/PACKS/CARTONS/OTHER)]

|  |  |  |
| :--- | :--- | :--- |

[IF F01a=CIGARETTES, GO TO F02]
[IF F01a=PACKS, GO TO F01dPack]
[IF F01a=CARTONS, GO TO F01dCart]
[IF F01a=OTHER, GO TO F01dOther]

F01dPack. Did each pack contain 20 cigarettes or another amount?

20 $\qquad$
OTHER AMOUNT .... $\square 7 \rightarrow$ FO1dPackA. How many cigarettes were in each pack?
REFUSED ................ $\square 9$
[GO TO FO2]

F01dCart. Did each carton contain 200 cigarettes or another amount?
200........................ $\square_{1}$
OTHER AMOUNT ..... $\square_{7} \rightarrow$ FO1dCartA. How many cigarettes were in each carton?
REFUSED ............... $\square_{9}$
[GO TO FO2]

F01dOther. How many sticks were in each \{OTHER\}?
[IF REFUSED, ENTER 999]


F02. In total, how much money did you pay for this purchase? [IF DON’T KNOW OR REFUSED, ENTER 999999]


F03. What brand did you buy the last time you purchased manufactured white cigarettes for yourself?

```
MARLBORO ............................\square 
LUCKY STRIKE ..........................\square 
DUNHILL................................\square
PALL MALL.............................\square प 4
KENT.....................................\square}\square
WINSTON ...............................\square 
MILD SEVEN ...........................\square7
OTHER ...................................\square 
```

$\qquad$

```
REFUSED................................\square }\square
```

F04. The last time you purchased manufactured white cigarettes for yourself, where did you buy them?
STORE......................................... $\square_{2}$
STREET VENDOR................... $\square_{3}$
DUTY-FREE SHOP ........................ $\square_{5}$
OUTSIDE THE COUNTRY .......... $\square_{6}$
KIOSK.......................................... $\square_{7}$
FROM ANOTHER PERSON ........ $\square_{9}$
OTHER ............................................ $\square_{10} \rightarrow$ FO4a. [SPECIFY LOCATION]:
DON'T REMEMBER............... $\square_{77}$
REFUSED.................................... $\square_{99}$

## Section FK. Economics - kretek cigarettes

```
IF [B01 = 1 OR 2 (RESPONDENT CURRENTLY SMOKES DAILY OR LESS THAN DAILY)]
```

AND
[(B06c OR B10c) > 0 AND <= 888 (RESPONDENT SMOKES KRETEK CIGARETTES)],
THEN CONTINUE WITH THIS SECTION.
OTHERWISE, SKIP TO NEXT SECTION.

FK01a. The next few questions are about the last time you purchased kretek cigarettes for yourself to smoke.
The last time you bought kretek cigarettes for yourself, how many kretek cigarettes did you buy?
[ENTER UNIT ON THIS SCREEN AND NUMBER ON NEXT SCREEN]
KRETEK CIGARETTES/STICKS ........................ $\square 1$
PACKS ......................................................... $\square 2$
CARTONS.................................................... $\square_{3}$
OTHER (SPECIFY) ......................................... $\square 4 \rightarrow$ FKO1c. [SPECIFY THE
UNIT]: $\qquad$
NEVER BOUGHT KRETEK CIGARETTES........... $\square 5 \rightarrow$ SKIP TO NEXT SECTION
REFUSED..................................................... $\square$ $9 \rightarrow$ SKIP TO FKO3

## FK01b. [ENTER NUMBER OF (KRETEK CIGARETTES/STICKS/PACKS/CARTONS/OTHER)]


[IF FKO1a=KRETEK CIGARETTES, GO TO FKO2]
[IF FK01a=PACKS, GO TO FK01dPack]
[IF FK01a=CARTONS, GO TO FK01dCart]
[IF FK01a=OTHER, GO TO FK01dOther]

FK01dPack. Did each pack contain 6 kretek cigarettes, 10 kretek cigarettes, 12 kretek cigarettes, 16 kretek cigarettes, 20 kretek cigarettes, or another amount?
6. $\qquad$
$\square$
10.................................... $\square 2$
12.................................... $\square_{3}$
16.................................... $\square_{4}$
20.................................... $\square_{5}$

OTHER AMOUNT .............. $\square_{7} \rightarrow$ FKO1dPackA. How many kretek cigarettes were in each
pack?
REFUSED $\square$
[GO TO FKO2]

FK01dCart. Did each carton contain 60 kretek cigarettes, 100 kretek cigarettes, 120 kretek cigarettes, 160 kretek cigarettes, 200 kretek cigarettes, 320 kretek cigarettes, or another amount?

[GO TO FK02]

FK01dOther. How many kretek cigarettes were in each \{OTHER\}?
[IF REFUSED, ENTER 999]
$\square$
[GO TO FK02]

FK02. In total, how much money did you pay for this purchase?
[IF DON'T KNOW OR REFUSED, ENTER 999999]
$\square$ [RANGE: 100 - 500000]

FK03. What brand did you buy the last time you purchased kretek cigarettes for yourself?


FK04. The last time you purchased kretek cigarettes for yourself, where did you buy them?


## section G. media

G201intro. The next few questions ask about your exposure to the media and advertisements in the past 30 days. For each item, I am going to ask separately about white cigarettes and kretek cigarettes.

G201a. In the past 30 days, have you noticed any information in *newspapers or in magazines* about the dangers of use or that encourages quitting of the following tobacco products?

1. White cigarettes?

YES $\qquad$
NO ................................. $\square 2$
NOT APPLICABLE ........... $\square 7 \rightarrow$ SKIP TO G201b
REFUSED........................ $\square 9$
2. Kretek cigarettes?

YES................................ $\square 1$
NO ................................. $\square_{2}$
REFUSED........................ $\square 9$

G201b. In the past 30 days, have you seen any information on *television* about the dangers of use or that encourages quitting of the following tobacco products?

1. White cigarettes?
YES............................... $\square_{1}$
NO ............................... $\square_{2}$
NOT APPLICABLE ........... $\square_{7} \rightarrow$ SKIP TO G201c
REFUSED....................... $\square_{9}$
2. Kretek cigarettes?

YES................................ $\square_{1}$
NO .................................. $\square_{2}$
REFUSED........................ $\square_{9}$

G201c. In the past 30 days, have you heard any information on the *radio* about the dangers of use or that encourages quitting of the following tobacco products?

1. White cigarettes?
YES............................... $\square_{1}$
NO .................................. $\square_{2}$
NOT APPLICABLE ........ $\square_{7} \rightarrow$ SKIP TO G201d
REFUSED....................... $\square_{9}$
2. Kretek cigarettes?

YES............................... $\square_{1}$
NO ..................................... $\square_{2}$
REFUSED................. $\square_{9}$
G201d. In the past 30 days, have you noticed any information on *billboards* about the dangers of use or that encourages quitting of the following tobacco products?

1. White cigarettes?

YES $\qquad$ $\square 1$
NO $\square 2$
NOT APPLICABLE ........... $\square 7 \rightarrow$ SKIP TO G201e
REFUSED....................... $\square$,
2. Kretek cigarettes?

YES $\qquad$ $\square 1$
NO ................................ $\square 2$
REFUSED....................... $\square$ 9

G201e. In the past 30 days, have you noticed any information *somewhere else* about the dangers of use or that encourages quitting of the following tobacco products?

1. White cigarettes?
[DO NOT INCLUDE HEALTH WARNINGS ON CIGARETTE PACKAGES]
YES. $\qquad$$1 \rightarrow$ a. Please specify where: $\qquad$
NO $\square 2$
REFUSED $\qquad$
2. Kretek cigarettes?
[DO NOT INCLUDE HEALTH WARNINGS ON KRETEK PACKAGES]
YES $\qquad$ $1 \rightarrow$ a. Please specify where: $\qquad$
NO $\qquad$ 2

REFUSED $\qquad$ $\square 9$

G202. In the past 30 days, did you notice any health warnings on white cigarette or kretek packages?


G203. [ADMINISTER IF B01 = 1 OR 2. ELSE GO TO G204a]

In the past 30 days, have warning labels on white cigarette or kretek packages led you to think about quitting?
YES................................ $\square 1$
NO .............................. $\square 2 \rightarrow$ SKIP TO GG2
DON'T KNOW ............... $\square 7 \rightarrow$ SKIP TO GG2
REFUSED...................... $\square 9 \rightarrow$ SKIP TO GG2

GG1. Would you say that the warning labels led you to think about quitting a lot or a little?
A LOT..................... $\square 1$
A LITTLE .................. $\square 1$
DON'T KNOW ......... $\square 7$
REFUSED................ $\square 9$

GG2. In the past 30 days, did the warning labels make you concerned or think about the dangers of smoking cigarettes on health?


G204a. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products in *stores where the products are sold*?

1. White cigarettes?

YES $\qquad$
NO $\qquad$
NOT APPLICABLE ........... $\square_{7} \rightarrow$ SKIP TO G204b
REFUSED...................... $\square_{9}$
2. Kretek cigarettes?
YES.............................. $\square_{1}$
NO ...................................... 2
REFUSED....................... $\square_{9}$

G204b. In the past 30 days, have you seen any advertisements or signs promoting the following tobacco products on *television*?

1. White cigarettes?
YES............................... $\square_{1}$
NO .............................. $\square_{2}$
NOT APPLICABLE ........... $\square 7 \rightarrow$ SKIP TO G204c
REFUSED....................... $\square 9$
2. Kretek cigarettes?

YES................................ $\square 1$
NO ................................. $\square_{2}$
REFUSED....................... $\square_{9}$

G204c. In the past 30 days, have you heard any advertisements promoting the following tobacco products on the *radio*?

1. White cigarettes?
YES................................. $\square_{1}$
NO .............................. $\square_{2}$
NOT APPLICABLE ........... $\square_{7} \rightarrow$ SKIP TO G204d
REFUSED....................... $\square_{9}$
2. Kretek cigarettes?

YES............................... $\square 1$
NO ................................. $\square 2$
REFUSED........................ $\square 9$

G204d. In the past 30 days, have you noticed any advertisements promoting the following tobacco products on *billboards*?

1. White cigarettes?
YES............................... $\square_{1}$
NO .................................. $\square_{2}$
NOT APPLICABLE ......... $\square_{7} \rightarrow$ SKIP TO G204e
REFUSED....................... $\square_{9}$
2. Kretek cigarettes?


G204e. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products on *posters*?

1. White cigarettes?
YES............................... $\square_{1}$
NO .................................. $\square_{2}$
NOT APPLICABLE ......... $\square_{7} \rightarrow$ SKIP TO G204f
REFUSED....................... $\square_{9}$
2. Kretek cigarettes?


G204f. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products in *newspapers or magazines*?

1. White cigarettes?
YES............................... $\square_{1}$
NO ................................. $\square_{2}$
NOT APPLICABLE .......... $\square_{7} \rightarrow$ SKIP TO G204g
REFUSED................... $\square_{9}$
2. Kretek cigarettes?


G204g. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products in *cinemas*?

1. White cigarettes?

YES $\square$
NO ............................... $\square_{2}$ $\square 1$

NOT APPLICABLE ........... $\square 7 \rightarrow$ SKIP TO G204h
REFUSED....................... $\square 9$
2. Kretek cigarettes?

YES $\square$
NO ............................... $\square 2$
REFUSED $\qquad$

G204h. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products on the *Internet*?

1. White cigarettes?
YES................................ $\square_{1}$
NO ................................. $\square_{2}$
NOT APPLICABLE ......... $\square_{7} \rightarrow$ SKIP TO G204i

REFUSED........................ $\square 9$
2. Kretek cigarettes?

YES................................ $\square_{1}$
NO ................................. $\square_{2}$
REFUSED........................ $\square_{9}$

G204i. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products on *public transportation vehicles or stations*?

1. White cigarettes?
YES................................ $\square_{1}$
NO ................................ $\square 2$
NOT APPLICABLE ........... $\square 7 \rightarrow$ SKIP TO G204j
REFUSED....................... $\square 9$
2. Kretek cigarettes?

YES................................ $\square 1$
NO ................................. $\square_{1}$
REFUSED........................ ${ }_{9}$

G204j. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products on *public walls*?

1. White cigarettes?
YES................................ $\square 1$
NO ................................ $\square 2$
NOT APPLICABLE ........... $\square 7 \rightarrow$ SKIP TO G204ja
REFUSED....................... $\square 9$
2. Kretek cigarettes?

YES................................ $\square 1$
NO ................................. $\square_{2}$
REFUSED........................ $\square_{9}$

G204ja. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products on *banners*?

1. White cigarettes?
YES.................................. $\square_{1}$
NO ......................... $\square_{2}$
NOT APPLICABLE ............ $\square_{7} \rightarrow$ SKIP TO G204k
REFUSED.................. $\square_{9}$
2. Kretek cigarettes?


G204k. In the past 30 days, have you noticed any advertisements or signs promoting the following tobacco products *anywhere else*?

1. White cigarettes?

YES................................ $\square_{1} \rightarrow$ a. Please specify where: $\qquad$
NO ............................... $\square_{2}$
REFUSED....................... $\square 9$
2. Kretek cigarettes?

YE $\square$ $1 \rightarrow$ a. Please specify where: $\qquad$
NO ............................... $\square 2$
REFUSED $\qquad$

G205. In the past 30 days, have you noticed any sport or sporting event that is associated with white cigarette brands or white cigarette companies?
YES............................... $\square_{1}$
NO .................................... $\square_{2}$
DON'T KNOW ............. $\square_{7}$
REFUSED..................... $\square_{9}$

G205a. In the past 30 days, have you noticed any sport or sporting event that is associated with kretek brands or kretek companies?
YES............................... $\square_{1}$
NO .................................... $\square_{2}$
DON'T KNOW........... $\square_{7}$
REFUSED........................ $\square_{9}$

G205b. In the past 30 days, have you noticed any music, theatre, art or fashion event that is associated with white cigarette brands or white cigarette companies?

YES $\square$
NO
DON'T KNOW ..... $\square 7$
REFUSED............. $\square$ 9

G205c. In the past 30 days, have you noticed any music, theatre, art or fashion event that is associated with kretek brands or kretek companies?

YES..................... $\square_{1}$
NO ....................... $\square_{2}$
DON'T KNOW.... $\square_{7}$
REFUSED............ $\square_{9}$

G206a. In the past 30 days, have you noticed distribution of any free samples of the following tobacco products?

1. White cigarettes?

YES $\qquad$
NO ............................... $\square_{2}$
DON'T KNOW ................ $\square 7$
REFUSED....................... $\square$ 9
2. Kretek cigarettes?

YES $\qquad$ $\square 1$
NO ................................ $\square_{2}$
DON'T KNOW ................ $\square_{7}$
REFUSED........................ $\square_{9}$

G206b. In the past 30 days, have you noticed any of the following tobacco products sold at sale prices?

1. White cigarettes?
YES............................... $\square_{1}$
NO .................................... $\square_{2}$
DON'T KNOW ............. $\square_{7}$
REFUSED................... $\square_{9}$
2. Kretek cigarettes?


G206c. In the past 30 days, have you noticed any coupons for the following tobacco products?

1. White cigarettes?
YES............................... $\square_{1}$
NO ..................................... $\square_{2}$
DON'T KNOW ............. $\square_{7}$
REFUSED........................ $\square_{9}$
2. Kretek cigarettes?
YES............................... $\square_{1}$
NO .................................... $\square_{2}$
DON'T KNOW ............ $\square_{7}$
REFUSED........................ $\square_{9}$

G206d. In the past 30 days, have you noticed any free gifts or special discount offers on other products when buying any of the following tobacco products?

1. White cigarettes?

YES $\qquad$
NO ............................... $\square 2$
DON'T KNOW ............... $\square_{7}$
REFUSED....................... $\square$ 9
2. Kretek cigarettes?

YES............................... $\square_{1}$
NO .................................... $\square_{2}$
DON'T KNOW ............. $\square_{7}$
REFUSED...................... $\square_{9}$

G206e. In the past 30 days, have you noticed any clothing or other item with a brand name or logo of the following tobacco products?

1. White cigarettes?

YES............................... $\square 1$
NO ............................... $\square_{2}$
DON'T KNOW ................ $\square$ 7
REFUSED $\square 9$
2. Kretek cigarettes?

YES $\square 1$
NO ............................... $\square_{2}$
DON'T KNOW ................ $\square 7$
REFUSED....................... $\square 9$

G206f. In the past 30 days, have you noticed any promotion in the mail for the following tobacco products?

1. White cigarettes?

YES $\square$
NO ............................... $\square 2$
DON'T KNOW ............... $\square 7$
REFUSED....................... $\square$ 9
2. Kretek cigarettes?

YES $\qquad$
NO ............................... $\square_{2}$
DON'T KNOW ............... $\square_{7}$
REFUSED....................... $\square 9$

## section H. knowledge, attitudes and perceptions

H01. The next question is about *smoking* tobacco.

Based on what you know or believe, does smoking tobacco cause serious illness?
YES......................... $\square 1$
NO ........................ $\square 2$
DON'T KNOW ......... $\square 7$
REFUSED................ $\square 9$

H02. Based on what you know or believe, does smoking tobacco cause the following...


H03. Based on what you know or believe, does using *smokeless tobacco* (such as chewing tobacco, inhaling tobacco powder and sirih with tobacco) cause serious illness?
YES......................... $\square 1$
NO ......................... $\square 2$
DON'T KNOW ......... $\square 7$
REFUSED............... $\square 9$

## END INDIVIDUAL QUESTIONNAIRE

100. Those are all of the questions I have. Thank you very much for partcipating in this important survey.
101. [RECORD ANY NOTES ABOUT INTERVIEW:]

## Appendix F: MPOWER Summary Indicators

Table F.1. MPOWER summary indicators, GATS Indonesia, 2011

|  |  |  | Gend |  | Reside |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Indicator |  | Overall | Men | Women | Urban | Rural |
| M : Monitor tobacco use and prevention policies ${ }^{\dagger}$ |  |  |  |  |  |  |
| Current tobacco use ${ }^{1}$ |  | $36.1^{\prime \prime}$ | $67.4{ }^{\text {r }}$ | $4.5{ }^{\text {F }}$ | $33.0{ }^{\prime \prime}$ | 39.1 |
| Current tobacco smokers ${ }^{1}$ |  | $34.8{ }^{\prime \prime}$ | $67.0{ }^{\prime \prime}$ | $2.7{ }^{\text {F }}$ | $31.9{ }^{\prime \prime}$ | 37.7 |
| Current cigarette smokers ${ }^{1,2}$ |  | $34.8{ }^{\prime \prime}$ | $67.0{ }^{\prime \prime}$ | $2.7{ }^{\text {F }}$ | $31.9{ }^{\prime \prime}$ | 37.6 |
| Current white cigarette smokers ${ }^{1}$ |  | $2.2{ }^{\prime \prime}$ | $4.3{ }^{\prime \prime}$ | $0.1{ }^{\text {F }}$ | $2.8{ }^{\text {F }}$ | 1.6 |
| Current hand-rolled cigarette smokers ${ }^{1}$ |  | $4.7{ }^{\prime \prime}$ | $9.0{ }^{\prime \prime}$ | $0.5{ }^{\text {F }}$ | $2.4{ }^{\text {F }}$ | 7.1 |
| Current kretek cigarette smokers ${ }^{1}$ |  | $31.5{ }^{\prime \prime}$ | $60.9{ }^{\prime \prime}$ | $2.3{ }^{\text {F }}$ | $28.6{ }^{\text {F }}$ | 34.5 |
| Current smokeless tobacco use ${ }^{1}$ |  | $1.7{ }^{\text {F }}$ | $1.5{ }^{\text {F }}$ | $2.0{ }^{\text {F }}$ | $1.2{ }^{\text {F }}$ | 2.2 |
| Average number of cigarettes smoked perday ${ }^{2,3}$ |  | $12.8{ }^{\prime \prime}$ | $13.0{ }^{\text {F }}$ | $8.1{ }^{\text {F }}$ | $12.3{ }^{\text {F }}$ | 13.3 |
| Average age at daily smoking initiation among daily smokers of age 20-34 years |  | $17.6{ }^{\text {r }}$ | 17.6 |  | $17.7{ }^{\text {F }}$ | 17.5 |
| Time to first tobacco smoke within 30 minutes of waking |  | $38.3{ }^{\prime \prime}$ | $38.6{ }^{\prime \prime}$ | $30.0{ }^{\prime \prime}$ | $41.0^{*}$ | 36.1 |
| Former daily tobacco smokers among ever daily smokers ${ }^{4}$ |  | $9.5{ }^{\prime \prime}$ | $9.0^{\prime \prime}$ | $23.2{ }^{\text {r }}$ | $11.4{ }^{\text {F }}$ | 7.9 |
| P: Protect people from tobacco smoke ${ }^{\dagger}$ |  |  |  |  |  |  |
| Exposure to second-hand smoke at home at least monthly ${ }^{5}$ |  | $78.4{ }^{\prime \prime}$ | $81.4{ }^{\text {r }}$ | $75.4{ }^{*}$ | $68.5^{\prime \prime}$ | 88.2 |
| Exposure to second-hand smoke at work ${ }^{6 . \ddagger}$ |  | $51.3{ }^{\text {r }}$ | $58.0{ }^{\text {F }}$ | $41.4{ }^{\text {F }}$ | $47.8{ }^{\text { }}$ | 62.4 |
| Exposure to second-hand smoke in public places ${ }^{\ddagger}$ : |  |  |  |  |  |  |
| Government buildings/offices |  | $63.4{ }^{\prime \prime}$ | $69.4{ }^{\text {F }}$ | $55.4{ }^{\text {F }}$ | $58.6{ }^{\text {F }}$ | 71.2 |
| Health- care facilities |  | 17.9 " | $20.1{ }^{\text {F }}$ | $16.5{ }^{\prime \prime}$ | $20.0{ }^{\text {F }}$ | 15.1 |
| Restaurants |  | $85.4{ }^{\prime \prime}$ | $90.8{ }^{\text {F }}$ | $76.1^{\prime}$ | 87.4 | 81.7 |
| Public transportation | $\cdots$ | $70.0^{\prime \prime}$ | $79.0{ }^{\circ}$ | $62.4{ }^{\text {F }}$ | $70.2^{\text {F }}$ | 69.6 |
| O: Offer help to quit tobacco use ${ }^{7}$ |  |  |  |  |  |  |
| Made a quit attempt in the past 12 months ${ }^{8}$ |  | $30.4{ }^{\prime \prime}$ | $29.8{ }^{\prime \prime}$ | $44.6{ }^{\circ}$ | $35.9{ }^{\prime \prime}$ | 25.6 |
| Advised to quit smoking by a health-care provider ${ }^{9}$ | $\stackrel{ }{ }$ | $34.6{ }^{\prime \prime}$ | $35.7{ }^{\text { }}$ | $13.0{ }^{\circ}$ | $35.6{ }^{\text {² }}$ | 33.9 |
| Attempted to quit smoking using a specific cessation method ${ }^{8}$ : |  |  |  |  |  |  |
| Quit without assistance |  | $70.7{ }^{\prime \prime}$ | $70.7{ }^{\prime \prime}$ | $71.1{ }^{*}$ | 65.6 | 77.0 |
| Counselling/advice ${ }^{10}$ |  | $7.0{ }^{\prime \prime}$ | $6.6{ }^{\text {r }}$ | $13.1{ }^{*}$ | $8.5{ }^{\text {r }}$ | 5.2 |
| Interest in quitting smoking ${ }^{11}$ |  | $48.8{ }^{\prime \prime}$ | $48.9{ }^{\text {² }}$ | $45.8{ }^{*}$ | $50.6^{\prime \prime}$ | 47.2 |
| W: Warn about the dangers of tobacco $\dagger$ |  |  |  |  |  |  |
| Belief that tobacco smoking causes serious illness | $\cdots$ | $86.0^{\prime \prime}$ | $85.7{ }^{\text {² }}$ | $86.3^{*}$ | $88.1{ }^{\text {F }}$ | 83.8 |
| Belief that smoking causes specific diseases: |  |  |  |  |  |  |
| Stroke |  | $45.5{ }^{\prime \prime}$ | $46.6{ }^{\prime \prime}$ | $44.4{ }^{\text {F }}$ | $55.0{ }^{\prime \prime}$ | 35.9 |
| Heart attack |  | $81.5{ }^{\prime \prime}$ | $82.9{ }^{\prime \prime}$ | $80.0{ }^{\prime \prime}$ | $85.4{ }^{\text {F }}$ | 77.4 |
| Lung cancer |  | $84.7{ }^{\prime \prime}$ | $85.2^{\prime}$ | $84.2{ }^{\prime}$ | $87.2{ }^{\prime \prime}$ | 82.2 |
| Chronic obstructive pulmonary disease (COPD) |  | $36.0{ }^{\prime \prime}$ | $37.4{ }^{\text {r }}$ | $34.7{ }^{\prime \prime}$ | $35.7{ }^{\prime \prime}$ | 36.4 |
| Premature birth |  | $49.5{ }^{\prime \prime}$ | $48.4{ }^{\text {r }}$ | $50.6{ }^{\prime \prime}$ | $58.3{ }^{\prime \prime}$ | 40.6 |
| Belief that breathing other peoples' smoke causes serious illness |  | $73.7{ }^{\prime \prime}$ | $74.1{ }^{\text {F }}$ | $73.3{ }^{\prime \prime}$ | $79.5{ }^{\text { }}$ | 67.8 |
| Noticed anti-cigarette smoking information at any location ${ }^{\ddagger}$ |  | $52.7{ }^{\prime \prime}$ | $57.1{ }^{\prime \prime}$ | $48.3{ }^{\prime \prime}$ | $64.3{ }^{\prime \prime}$ | 41.0 |
| Thinking of quitting because of health warnings on cigarette packages | $r$ | $27.1^{\prime \prime}$ | $27.5^{\text {F }}$ | $17.0{ }^{\circ}$ | $27.9{ }^{\text {F }}$ | 26.3 |
| E: Enforce bans on tobacco advertising, promotion and sponsorsh |  |  |  |  |  |  |
| Noticed any cigarette advertisement, sponsorship or promotion ${ }^{\ddagger}$ |  | $84.6{ }^{\prime \prime}$ | $91.1^{\prime}$ | $78.2^{\text {r }}$ | $89.7{ }^{\text {F }}$ | 79.5 |
| Noticed any cigarette marketing in the stores where cigarettes are sold ${ }^{\ddagger}$ |  | $45.6{ }^{\text {² }}$ | $53.4{ }^{\text {F }}$ | $37.8{ }^{\circ}$ | $51.4{ }^{*}$ | 39.7 |
| R: Raise taxes on tobacco ${ }^{12}$ |  |  |  |  |  |  |
| Average kretek cigarette expenditure per month (Rp) ${ }^{\text {@ }}$ |  | 369,947.68 | 373,809.40 | 178,263.37 | 351,424.38 | 384,751.32 |
| Average price paid for a pack of 20 kretek cigarettes (Rp) ${ }^{@}$ |  | 12,718.91 | 12,753.22 | 11,019.85 | 14,095.10 | 11,614.66 |
| Last kretek cigarette purchase was from a store | F | $17.6^{*}$ | $17.4{ }^{\text {F }}$ | $21.8{ }^{\prime}$ | $19.4{ }^{\text {F }}$ | 16.0 |

## Footnotes

${ }^{1}$ Current use includes both daily and occasional(less than daily) use.
${ }^{2}$ Cigarette use includes white cigarette s , hand-rolled c igarettes and kre te k c igare tes
${ }^{3}$ Among current cigare te smokers
${ }^{4}$ Also known as the quit ratio for daily smoking
${ }^{5}$ Adults reporting that smoking inside the ir home occurs da ily, we e kly or monthly
${ }^{6}$ Among those respondents who work outside of the home, usually indoors orboth indoors and outdoors
${ }^{7}$ Among current smokers (includes both daily and occasionalsmokers)
${ }^{8}$ Among current smokers and formersmokers who have been abstinent for less than 12 months
${ }^{9}$ Among current smokers and formersmokers who have been abstinent for less than 12 months, and who visited an HCP during the past 12 months
${ }^{10}$ Consultations in he alth-c are facilities, including specialized offices on how to quit smoking
${ }^{11}$ Interest in quitting smoking includes current smokers who are planning to quit with in next month, thinking about quitting with in next 12 months, and who will quit omeday, but not in the next 12 months
${ }^{12}$ Among current manufactured cigare tte smokers
${ }^{\dagger}$ Among all adults
$\ddagger$ Inthe past 30 days
${ }^{@}$ Indonesian Rupiah

- Indic ator estimate based on less than 25 unweighted cases and has been suppressed

162 Appendix F: MPOWER Summary Indicators


[^0]:    Note: The following observations were missing: 3 for occupation and 3 for education. NA - Not Applicable.
    ${ }^{1} 95$ \% Confidence Interval.

[^1]:    Note: Current use includes both daily and occasional(less than daily) use.

[^2]:    ${ }^{1}$ Occasional refers to less than daily use.
    -- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

[^3]:    ${ }^{1}$ Occasional refers to less than daily use.
    -- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

[^4]:    ${ }^{1}$ Occasional refers to less than daily use.
    -- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

[^5]:    ${ }^{1}$ Occasional refers to less than daily use.
    -- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

[^6]:    ${ }^{1}$ Occasional refers to less than daily use.
    -- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

[^7]:    ${ }^{1}$ Among daily kretek cigarette smokers.

[^8]:    ${ }^{1}$ Includes daily and occasional (less than daily) smokers or smokeless users

[^9]:    ${ }^{1}$ Among current daily orless than daily smokers.

[^10]:    ${ }^{1}$ Among all adults in the past 30 days

[^11]:    ${ }^{1}$ Among all adults in the past 30 days

[^12]:    ${ }^{1}$ Among all adults in the past 30 days

    - Indicator estimate based on less than 25 unweighted cases and has been suppressed.

[^13]:    Note: Includes both white and kretek cigarettes.

[^14]:    ${ }^{1}$ Includes daily and occasional(less than daily) smokers
    ${ }^{2}$ Includes former and never smokers.

[^15]:    Includes daily and occasional(less
    ${ }^{2}$ Includes former and never smokers.

[^16]:    2 Includes former and never smokers.

[^17]:    ${ }^{1}$ Includes daily and occasional(less than daily) smokeless tobacco users.
    ${ }^{2}$ Includes former and never smokeless tobacco users.
    -- Indicator estimate based on less than 25 un-weighted cases and has been suppressed.

[^18]:    ${ }^{1}$ Includes daily and occasional(less than daily) smokers
    ${ }^{2}$ Includes former and never smokers.

