International Tobacco Control South-East Asia Survey


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Suggested Citation
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(This report was completed in May 2007)

Funder acknowledgement
The ITC-SEA Project is supported by grants P50 CA111236 (Roswell Park Transdisciplinary Tobacco Use Research Center) and R01 CA100362 from the National Cancer Institute of the United States, Canadian Institutes of Health Research (79551), Ontario Institute for Cancer Research, ThaiHealth Promotion Foundation, and the Malaysian Ministry of Health.
1. Introduction

Background
The International Tobacco Control (ITC) Study is a prospective cohort survey designed to evaluate national level tobacco control policies. The ITC Study has so far been administered in seven different countries: the United States, Canada, Australia, the United Kingdom, and Ireland as well as Thailand and Malaysia. The first wave of the survey was conducted in Thailand and Malaysia in January-March of 2005.

Main Objectives
The objectives of the ITC Survey in South-East Asia are:

1) **To examine the prevalence and patterns of smoking behaviour among Thais and Malaysians.**

This study will provide among the best estimates of current smoking behaviour in Malaysia and Thailand. It will also provide very detailed information about smokers’ quitting behaviour, consumption patterns, and other important aspects of smoking behaviour.

2) **To examine the impact of specific tobacco control policies that are implemented in Thailand and Malaysia during the next 5 years.**

The ITC survey has several sections that are intended to evaluate the impact of specific policies, such as health warning labels on cigarette packs, anti-smoking campaigns, and price/taxation increases. As a result, the survey is able to examine to what extent policies change smoking behaviour and attitudes towards smoking.

3) **To compare smoking behaviour and the impact of policies between Malaysia, Thailand, and other ITC countries.**

Because most of the questions are the same, we are able to compare patterns of smoking and impacts of policies in the populations of Malaysia and Thailand, with those of the other countries.

4) **To measure the uptake of tobacco use among young people.**

The ITC survey in South-East Asia is being conducted with youth respondents (aged 13-17) and will therefore be able to identify factors that affect the likelihood of smoking uptake among young people, with an emphasis on policies that may decrease or increase the likelihood of smoking.

Survey Design
The ITC Survey is a longitudinal cohort study. In other words, the respondents who participate in this survey will be re-contacted in the future to answer follow-up surveys. The plan at the time of Wave 1 was to re-contact the respondents for follow-up surveys in 2 years and then in 4 years.
The Research Team
The survey has been conducted in Malaysia by researchers at the National Poison Centre, Universiti Sains Malaysia (USM), with the cooperation of the Malaysian Ministry of Health. The survey has been conducted in Thailand by researchers at the Institute for Population and Social Research, Mahidol University with assistance from two consultants in Thailand as well as the Thai Health Foundation. The research teams in Malaysia and Thailand are collaborating with an international team of researchers in Australia (The Cancer Council of Victoria), Canada (The University of Waterloo), and the United States (Roswell Park Cancer Institute).
2. The Sampling Design

Target Population
Eligible adult respondents in each country included youth smokers and non-smokers between the ages of 13 and 17, as well as adult smokers and, in Malaysia, non-smokers) 18 years of age and older. Individuals in jail and those living in institutions were ineligible for the survey. In Malaysia, a maximum of 4 respondents were selected from each household (one female adult smoker, one male adult smoker, one adult non-smoker, and one youth respondent). Respondents were drawn from six states in Malaysia, one state per zone:
- Kedah
- Selangor
- Johore
- Terengganu
- Sabah
- Sarawak

ITC SEA Wave 1 Survey Locations in Malaysia

States in Malaysia
In Thailand, a maximum of 3 respondents were selected from each household (one female adult smoker, one male adult smoker, and one youth respondent). Respondents were drawn from:

- **Northern Region**
  - Chiang Mai
  - Phrae

- **North-Eastern Region**
  - Nong Khai
  - Nakhon Ratchasima

- **Central Plain Region**
  - Bangkok
  - Samut Sakhon
  - Nakhon Pathom

- **Southern Region**
  - Nakhon Si Thammarat
  - Songkhla

(Other regions mentioned in the text: Chiang Mai, Phrae, Bangkok, Samut Sakhon, Nakhon Pathom, Nakhon Si Thammarat, Songkhla)

(Source: http://www.faorapapcas.org/thailand/ThaiMap.htm)
Sample Size
The sample was designed to include in each country:

- 2,000 Adult Smokers (aged 18 years+, smoke at least weekly)
- 1,000 youths (aged 13-17, both smokers and non-smokers)

In Malaysia the sample was designed also to include:

- 1,500 Adult Non-smokers (aged 18 years+, smoke less than weekly or not at all)

The achieved adult smoker sample consisted of 2000 from Thailand (1846 men and 154 women) and 2004 from Malaysia (1906 men and 98 women). As well, 1560 non-smokers were sampled from Malaysia. The youth sample consisted of 1000 youth between the ages of 13 and 17 from Thailand (522 boys and 478 girls) and 1009 youth from the same age group in Malaysia (495 boys and 514 girls).

Stages of Sampling
In each country the sampling scheme for households was a stratified multi-stage design, with inclusion probabilities proportional to size at the first few stages in each stratum. The next-to-last stage units were clusters of dwellings, each cluster having a quota of adult smokers, youth and (in Malaysia) adult non-smokers to be filled. For details see Appendix A.

Eligible Types of Dwellings

Private Homes
A private home is any dwelling that is considered to be the usual place of residence for at least one of the persons living there. The person may be:

- a family member
- a roomer / boarder
- an employee

Private Home AND Business
A private home and business is any dwelling that serves both as a business and the usual place of residence, such as in the case of a business operating out of the home.

Dwellings Not Eligible
Surveys were not conducted in dwellings that are Businesses only or with individuals living in Institutions, such as hospitals, nursing homes, jails, or religious institutions.

Definition of a Household
A household is any persons or group of persons living in a dwelling. It may consist of:
1. one person living alone
2. a family sharing the same dwelling
3. a group of people who are not related but share the same dwelling

To be included on the *Household Enumeration Form* for a particular dwelling, a respondent must have regarded the dwelling as his/her usual place of residence.
3. Protocols and Quality Control

Collection Methods
Data were collected through household surveys.

- Adults responded to a “face-to-face” survey.
- Youth completed a self-administered (paper and pencil) questionnaire.

Main Components of the Survey
The ITC Survey protocol consisted of four main steps:

1. Household Enumeration (including Demographic information)
2. Participant Selection & Consent
3. Main Questionnaire
4. Exit and Compensation

Length of the interview
The interview for the survey took a total of approximately 50 minutes to complete for adult smokers, 30 minutes for adolescents, and 10 minutes for non-smoking adults.

Attempts to Enumerate
A maximum of 4 attempts were made to enumerate each household.

Participant Gift / Remuneration
In Malaysia, as a token of thanks for completing the longer surveys, adult smokers and youth participants received a gift (a t-shirt) in exchange for their time. (Adult non-smokers in Malaysia did not receive a t-shirt given the short duration of their survey.) In Thailand, adult smokers received 300 Baht and youth participants received 150 Baht. In some Thai provinces, community leaders and village headmen were sought out for their help and cooperation. They accompanied the team during the fieldwork. A token amount of USD30.00 (approximately 985 Baht) was given to each leader or village headman for their assistance.

Private interviews
Adult participants were interviewed alone whenever possible. If another person insisted on being present, the agreement of the respondent was necessary in order to proceed with the interview. Adolescents completed the questionnaire in private.
Proxy Interviews
A proxy interview is an interview conducted with another knowledgeable member of the household on behalf of the selected respondent. Proxy interviews were not allowed in the ITC Survey.

Respondent Not Available
If a respondent was unavailable, an appointment time (hard appointment) was made to interview that respondent.

Fieldwork Teams
Fieldwork teams consisted of several interviewers working in teams of two, as well as a Field Supervisor. (Interviewers were instructed to work in pairs at all times, for reasons of safety and efficiency.) There were a total of 75 interviewers and 17 Field Supervisors in Malaysia, and 36 interviewers and 5 Field Supervisors in Thailand. The number of interviewers and Field Supervisors assigned to each stratum varied according to the size of that stratum.

In Thailand, the Field Supervisors reported to the principal investigators at the Institute for Population and Social Research, Mahidol University. The principal investigators paid monitoring visits to the field. In the rural region, field supervisors approached community leaders and village headmen before and during the survey fieldwork to seek permission and gather support to contact village people for the study. Before the survey, a letter is sent to a village to request the community leader or village headman to prepare household listing of his/her village as well as to inform the villagers about the survey work. The role of the community leaders or village headmen was to ask their villagers to provide full cooperation to the survey interviewers. The significant assistance provided by the community leaders and village headmen contributed enormously to the success of gathering information from the rural region.

In Malaysia, Health Officers and Health Inspectors from the Ministry of Health (MOH) assisted in transporting the data collectors to the field sites (using MOH vehicles). In some areas, e.g. in Selangor, Health Inspectors helped with the scouting/searching for addresses prior to interviews. Staff from the Poison Centre at USM were sent to each of the states to provide quality checks and to collect the completed questionnaires. The investigators at USM traveled to each of the states to check on progress and motivate the staff. At other times, updates of progress were provided daily to investigators of the team at USM via phone calls.

Monitoring & Quality Assurance
To ensure the accuracy and quality of the ITC survey, the field work was monitored in several ways.

The Field Supervisor travelled with each interview team and provided regular feedback to the interviewers. The Field Supervisor ensured that the survey protocol and data collection standards were being closely followed. Field Supervisors could monitor interviews and provide regular feedback to interviewers.

Field Supervisors were also available to address any questions or concerns from the interviewers.
Identification Numbers
Field supervisors were instructed to ensure household and respondent identification numbers were being properly filled out.

Progress Reports
The Field Supervisors also provided daily updates of Quotas and any problems or issues to the principal investigators.

Thus the Field Supervisors were responsible for providing regular updates to the investigator teams, and for consulting with the investigators on problems encountered (e.g. sample cluster turned out to be non-existent, or permission to sample in selected area denied).

Interviewer Training
In Thailand, training of interviewers and field supervisor took place over four days. Interviewers were trained in the objectives of the study, sample selection, survey procedures, questionnaire contents, interviewing methods and ethical procedures during the first two days. On the third and fourth days interviewers received training in interviewing under field conditions. In Malaysia, a similar program of training was designed to be carried out in 3 to 4 days with the field workers in each selected state.

Interviewing Aids
In some cases, the response options are the same for several questions in a row. “Response cards” were provided that could be shown to respondents to save time and to facilitate ease of interviewing. For example, there were several questions which asked the respondents the intensity of their attitudes.

Household Enumeration
At each dwelling, before respondents were selected, information was collected about the household, including a roster of all household members (with age, gender, and (for adults) smoking status). This information could be obtained from any adult member of the household. In Malaysia, the ethnicity of the household informant was coded. Time required to complete the Household Enumeration Form is: 2-5 minutes.

Identifying Eligible members
There were three or four different categories of eligible respondents in a household
1) Adult Male Smokers
2) Adult Female Smoker
3) Adult Non-smokers (in Malaysia)
4) Youth

Selection of household members
In a case of more than one eligible household member in a category, one of these was selected using a randomization technique, the Kish Grid. See Appendix B. Substitutions were permitted only for selected household members who would be absent during the entire fieldwork period at the survey location, or could not speak the language of the survey, or for problems of physical or mental health were unable to participate.
Information and Consent
Once a respondent was selected, the information letter was provided and the consent form administered.

Handling Multiple Respondents at the Same Time
Generally, if a youth respondent was selected and available, one interviewer started the youth respondent on the survey, while the other dealt with the adults. Once the youth respondent began to fill out the questionnaire, the second interviewer could return to survey a second adult. An interviewer could not interview two adults at the same time.

Language
The survey was conducted in the Thai language in Thailand, and in Malay or English in Malaysia. Potential respondents were ineligible if they were not able to be interviewed in one of the languages of the survey. Some problems were encountered with expressing some of the questions in local dialect in Malaysia, e.g. questions with the word “encourage”.

Training Manuals
An English manual on how to enumerate a household and conduct a survey interview were written to train survey interviewers before the survey fieldwork begins. The English language manual was translated into Malay for Malaysia and Thai for Thailand.
4. Disposition Codes and Response Rates

Outcome Codes: Household
The list of Household Outcome codes on the enumeration form represent FINAL dispositions, to be assigned either when the household is enumerated or after the 4th visit. (A maximum of 4 attempts were made to enumerate each household.) See the first page of the Household Enumeration Form in Appendix B.

1. Could not find
2. Vacant Dwelling/Lot
3. Not a Household (e.g. Business)
4. Threat to Safety
5. No Contact – Weather Conditions
6. No Answer – 4 Attempts
7. No Answer – Survey Period Ends
8. Household Refusal
9. Language Barrier
10. Enumeration Prevented for Other Reasons (specify)
11. Enumerated

Outcome Codes: Individual
Individual outcomes codes were to be assigned to EVERY ONE ENUMERATED FOR THE SURVEY ON THE HOUSEHOLD ENUMERATION FORM. See the second page of the Household Enumeration Form in Appendix B.

15. Not Selected
16. Incomplete
17. Refusal
18. Proxy Refusal
19. Absent for Survey Period
20. Language Barrier
21. Health/Mentally Incapable
22. Missed (after 4 attempts)
23. Complete

Respondent ID
The Respondent ID is a combination of the long ID written on page 1 of the Enumeration Form + the LQ (Dwelling ID) + the respondent ID.

Response Rate Calculations
In Thailand, only forms for which at least one successful interview was completed were retained. In Malaysia, enumeration data were retained for all households, but resources have not so far been available to enter them. Thus response rates have not been calculated. The following are the calculations which would be used if the data were available.
Household accessibility rate: \[
\frac{6+7+8+9+10+11}{1+4+5+6+7+8+9+10+11}
\]

Household contact rate: \[
\frac{8+9+10+11}{6+7+8+9+10+11}
\]

Household enumeration rate, given contact: \[
\frac{11}{8+9+10+11}
\]

Household agreement rate, given contact: \[
\frac{11}{8+11}
\]

Individual response rate, given selected: \[
\frac{23}{16+17+18+22 +23}
\]

In Malaysia, these would be of interest by ethnicity; in both countries, they would be of interest by region.

Summary data on household dispositions for the two countries are as follows:

No contact rates are available from Wave 1 in Thailand. The table above shows a relatively high rate of eligibility of households \((2640/4207 = 0.628)\) and a high household cooperation rate \((2470/2470=0.936)\). The combined eligibility and cooperation rate was \(2470/4207=0.587\).
Household dispositions in Malaysia

Note: In Malaysia, the counts for the EBs where no maps or addresses were available are not included.

<table>
<thead>
<tr>
<th>State</th>
<th>Frame sample</th>
<th>Contacted</th>
<th>Interviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johore</td>
<td>1601</td>
<td>1352</td>
<td>524</td>
</tr>
<tr>
<td>Kedah</td>
<td>1588</td>
<td>1451</td>
<td>425</td>
</tr>
<tr>
<td>Selangor</td>
<td>3330</td>
<td>2819</td>
<td>918</td>
</tr>
<tr>
<td>Terengganu</td>
<td>1829</td>
<td>1489</td>
<td>435</td>
</tr>
<tr>
<td>Sabah</td>
<td>960</td>
<td>839</td>
<td>290</td>
</tr>
<tr>
<td>Sarawak</td>
<td>900</td>
<td>747</td>
<td>229</td>
</tr>
<tr>
<td>Total</td>
<td>10208</td>
<td>8697</td>
<td>2821</td>
</tr>
</tbody>
</table>

The contact rate in Malaysia from the table above was 8697/10208=0.852. The eligibility counts are not available, but the combined household eligibility and cooperation rate was 2821/8697= 0.324. The combined rate is substantially lower in Malaysia than Thailand, reflecting a more urbanized and heterogeneous population.

Note that the number of households interviewed in Malaysia was higher, as is expected because adult non-smokers as well as smokers were eligible at the beginning of fieldwork.
5. Weight construction

For any interviewed individual, that individual’s household has been recorded and at least to some extent enumerated. Thus we have constructed a household weight for each household in the sample, within its “pseudo-PSU”, namely the urban or rural part of state (Malaysia) or province (Thailand). Following this we have constructed an individual weight for each individual within his/her household. The product of household weight and individual within-household weight has then been raised to the national level. Finally, the weights have been rescaled to national sample sizes for pooled analyses.

Computation of household weights HWT

Step H1: For each enumerated household, a cluster (ED or VI) level (Thailand) or enumeration block (EB) level (Malaysia) weight \( HW1 \) has been computed.

In Malaysia,
\[
HW1 = \frac{H_{EB}}{h_{EB}}
\]
where \( H_{EB} \) is the number of households in the EB of the household in question, and \( h_{EB} \) is the number of households with composition enumerated in that same EB.

Similarly, in Thailand, including Bangkok
\[
HW1 = \frac{H_{ED}}{h_{ED}} \quad \text{(urban)} \quad \text{or} \quad \frac{H_{VI}}{h_{VI}} \quad \text{(rural)}.
\]

Note: This step requires that the number of households in the cluster or EB be be known, at least approximately. Where it was necessary to implement a random walk sampling scheme, as occasionally happened in Malaysia, the number has had to be estimated. In the absence of an estimate from the fieldworkers, we have taken \( H_{EB} \) to be an average number of households per EB for the community (CD), where available.

In both countries, in cases where the number of households in the cluster or EB was larger than 200, we have capped it at 200, to avoid unusually large weights.

Step H2: For each enumerated household in a rural area, a state level weight \( HWT \) (in Malaysia) or a province level weight \( HWT \) (in Thailand) has been computed. This is the approximate number of households in the same state or province in rural areas represented by the enumerated household. Similarly, for each enumerated household in an urban area, a state level weight (in Malaysia) or a province/Bangkok level weight \( HWT \) has been computed. This can be taken to be the approximate number of households in the same state or province/Bangkok in urban areas and the same refined category represented by that enumerated household.

In Malaysia,
\[
HWT = N_{ruralS} \times HW1 / (nn \times H_{EB} \times NUMBAR)
\]
or

\[ HWT = N_{urbanS} \times HW1 / (nn \times H_{EB} \times NUMBAR) \]

where \( NUMBAR = (\sum_{AD} (HW1 \times NUM) / \sum_{AD} HW1) \),

\( NUM \) is the number of people or the number of people aged 13 and over (whichever is available) in the household, \( N_{ruralS} \) is the rural population of the state, \( \sum_{AD} \) denotes the sum over enumerated households (not interviewed people) in the district or city \( (AD) \), and \( N_{urbanS} \) is the urban population of the state; \( nn \) is a factor from the sampling design which is given by

\[ nn = n_{AD} \times n_{EB} \]

where \( n_{AD} \) is the number of districts taken from the rural part or the number of cities taken from the urban part of the state; \( n_{EB} \) is the number of EBs sampled in the \( AD \).

For each enumerated household in Bangkok,

\[ HWT = HW1 \times (\sum_{dis} N_{ED,dis} / \Pi_{dis}) / n_{ED} \]

where \( \sum_{dis} \) denotes the sum over all districts in sample; \( N_{ED,dis} \) is the number of EDs in the district \( dis \); \( \Pi_{dis} \) is the inclusion probability of the district \( dis \), and is given by

\[ \Pi_{dis} = 13 \times N_{dis} / N_{Bangkok} \]

where the \( N \)'s are population sizes; and \( n_{ED} \) is the number of EDs in the Bangkok sample.

For each enumerated household in the urban part of the rest of Thailand,

\[ HWT = HW1 \times N_{urbanP} / \lbrack N_{ED} \times nn \rbrack \]

where \( N_{urbanP} \) is the size of the urban part of the province; \( N_{ED} \) is the size of the household’s ED; and \( nn = n_{ED} \times n_{subd} \times n_{dis} \) or the product of number of EDs, the number of subdistricts, and the number of districts in the sampling “chain” for the household.

A similar formula was used for each enumerated household in the rural part of Thailand, replacing ED by village, and \( N_{urbanP} \) by \( N_{ruralP} \).

Note that for Malaysia, raw prevalence estimates in a state can be computed by taking the sum over all enumerated households in the state of the number of people in the household in each refined category: male adult smoker, male adult non-smoker, female adult smoker, female adult non-smoker.

For Thailand, we do not have the same kind of prevalence estimates from Wave 1, since non-smokers are not part of the sample.
Computation of individual level weights to state or province level

Step I1: Each interviewed individual has been given a household level weight $W_1$. This is interpreted as the number of people in the same household in the same sampling category.

In Malaysia:
- for an adult male smoker, $W_1$ is the number of adult male smokers in the same household
- for an adult female smoker, $W_1$ is the number of adult female smokers in the same household
- for an adult non-smoker, $W_1$ is the number of adult non-smokers in the same household
- for an adolescent aged 13-17, $W_1$ is the number of adolescents aged 13-17 in the same household

Note: $W_1$ as defined above does not necessarily sum within the household to the number of people aged 13 and over in the household, since there may be one or more sampling categories present from which no one was interviewed.

In fact, we have capped the value of $W_1$ at 2 to reduce the potential variability of the weights. Step I1a ensures that each individual still represents a correct number at the EB level.

In Thailand, let $W_1 = 1$ for each respondent. This is correct whenever the respondent is the only eligible person in his/her sampling category in the household. It is too low when the respondent has been selected as one of several. However, complete data for the adjustment were not available at the time of calculation.

Step I1a: Each interviewed individual in Malaysia has been given an adjusted household level weight $W_{1a}$. This adjustment guarantees that the prevalence estimates based on the HWTs and on the final individual weights will be the same.

Let $AMS_{EB}$, $AFS_{EB}$, $AMNS_{EB}$, $AFNS_{EB}$, and $Y_{EB}$ be respectively the numbers enumerated in the EB of adult male smokers, adult female smokers, adult male non-smokers, adult female non-smokers, and adolescents.

Let $W_1AMS_{EB}$, $W_1AFS_{EB}$, $W_1AMNS_{EB}$, $W_1AFNS_{EB}$ and $W_1Y_{EB}$ be respectively the sums of $W_1$ for all interviewed adult male smokers, adult female smokers, adult male non-smokers, adult female non-smokers and adolescents in the EB.

- for an adult male smoker, $W_{1a}$ will be given by
  $$W_{1a} = AMS_{EB} / W_1AMS_{EB}$$
  - similarly for the other refined categories

In one stratum, Sarawak rural, this step resulted in a large increase in weight variability, and we therefore set $W_{1a} = W_1$ in that stratum.

Step I1a is not applicable in Thailand. For Thailand,

$$W_{1a} = W_1.$$

Step I2: Each interviewed individual has been given a preliminary state or province level weight $W_4$. For an individual in a rural area $W_4$ will be thought of as the number of people in the same state or province in rural areas and the same refined category represented by that individual. Similarly, each interviewed individual in an urban area has been given a state or province/Bangkok level weight $W_4$. 

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This will be thought of as the number of people in the same state or province/Bangkok in urban areas and the same refined category represented by that individual. The weight \( W4 \) is given by

\[
W4 = HWT \times W1a.
\]

Calibration of individual weights at the state or province level

Step C1: For Malaysia, each interviewed individual in an urban area has been given a calibrated state-level weight

\[
W4a = W4 \times \frac{N_{urbanS,dem}}{W4_{urbanS,dem}}
\]

where \( N_{urbanS,dem} \) is the known number of people in the urban part of the state with same gender and age category (adult vs youth) as the individual, and \( W4_{urbanS,dem} \) is the sum of the \( W4 \) weights for interviewed individuals in the urban part of the same state, with same gender and age category (regardless of smoking status).

Each interviewed individual in a rural area, has been given a calibrated state-level weight

\[
W4a = W4 \times \frac{N_{ruralS,dem}}{W4_{ruralS,dem}}
\]

where \( N_{ruralS,dem} \) is the known number of people in the rural part of the state with same gender and age category (adult vs youth) as the individual, and \( W4_{ruralS,dem} \) is the sum of the \( W4 \) weights for interviewed individuals in the rural part of the same state, with same gender and age category (regardless of smoking status).

For Thailand, we cannot perform an analogous calibration for adults because there are only smokers in the adult sample. Let

\[
W4a = W4.
\]

Raising of individual level weights to the zone or region level

Step I3: Each interviewed individual has been given a zone or region level weight \( W6 \). This represents the number of people in the same stratum and the same refined category represented by that individual. (This weight \( W6 \) is a last-stage “basic” survey weight for the individual, in the sense that \( W6 \) can also be thought of as the number of people in the entire country represented by that individual.)

In Malaysia, urban parts, \( W6 \) is

\[
W6 = \frac{N_{urbanZ,dem} \times W4a}{W4a_{urbanZ,dem}}
\]

where \( N_{urbanZ,dem} \) is the known number of people in the urban part of the zone with same gender and ethnicity and age category (adult vs. youth) as the individual, and \( W4a_{urbanZ,dem} \) is the sum of the \( W4a \).
weights for interviewed individuals in the urban part of the same zone, with same gender and ethnicity and age category (should be same as $N_{urbanS,dem}$ above).

In Malaysia, rural parts, $W6$ is

$$W6 = N_{ruralZ,dem} \times W4a/W4a_{ruralZ,dem}$$

where $N_{ruralZ,dem}$ is the known number of people in the rural part of the zone with same gender and ethnicity as the individual, and $W4a_{ruralZ,dem}$ is the sum of the $W4a$ weights for interviewed individuals in the rural part of the same zone, with same gender and ethnicity (should be same as $N_{ruralS,dem}$ above).

In Thailand, we have first calculated $W5$, which is $W4a$ in the case of Bangkok, and which in the cases of the provinces is

$$W5 = W4a \times N_{region}/(2 \times N_{province}),$$

where the $N$ variables are population sizes used in the probability proportional to size sampling.

Then for an adolescent, $W6$ is given by

$$W6 = N_{region,y} \times W5/W5_{region,y}$$

where $N_{region,y}$ is the number of adolescents in the region (or Bangkok) and $W5_{region,y}$ is the sum of $W5$ over adolescents in the sample in the region.

For an adult smoker,

$$W6 = N_{region,smokdem} \times W5/W5_{region,smokdem}$$

where $N_{region,smokdem}$ is the number of adult smokers in the region (or Bangkok) with the same gender as the respondent, and $W5_{region,smokdem}$ is the sum of the $W5$ over sampled adult smokers in the region with the same gender as the respondent.

Rescaling

Finally, the weights in the two countries have been rescaled within each sampling category (youth, adult smokers, adult non-smokers) to sum to national sample sizes, for use in pooled analyses.

The formula used for each country is as follows:

Rescaled weight $RWT = n_C \times W6/\left(\sum_C W6\right)$,

where $n_C$ is the actual (i.e. unweighted) size of the country subsample for the sampling category, and $\sum_C W6$ denotes a sum over that subsample of the original weights.
A similar rescaling is applied to the state level weights in Malaysia.

Note on ethnicity calibration in Malaysia

Malaysia has a large non-Malay population in some urban areas. Because of the clustered nature of the sampling plan and differential response rates, the different ethnic groups (Malay, Chinese, Indian and Other) were not sampled in proportion to their numbers, either at the state level or the zone level. For descriptive purposes we have calibrated the final individual weights ($W_6$) by ethnicity as well as by gender and age category. However, because the ethnicity calibration adds a great deal to the variability of the weights, we have not used ethnicity in calibrating the state level weights.

In modeling, we recommend using the final rescaled weights for Thailand, and the rescaled state level weights in Malaysia, and always entertaining ethnicity as a variable in the analysis.

References

ITC SEA Wave 1 Training Manual in English.

ITC SEA Wave 1 Training Manual for Thailand (translated into Thai).

ITC SEA Wave 1 Training Manual for Malaysia (translated into Malay).

References for Thai population and smoker data:
Population Data: 1% sample of the 2000 Thailand Housing and Population Census

Reference for Malaysia population data:
Appendix A: ITC-SEA Sampling Plan

The survey used face-to-face recruitment of participants from an area sample of households. The sample of households was selected using a stratified multistage sampling design. The primary strata consisted of Bangkok and four regions (North, Northeast, Central and South) in Thailand, and the six zones of Malaysia. In Thailand, respondents were selected from Bangkok and two provinces in each of Thailand’s four regions (Chiang Mai, Phrae, Nakhon Ratchasima, Nong Khai, Nakhon Pathom, Samut Sakhon, Nakhon Si Thammarat, and Songkhla). In Malaysia, respondents were drawn from one state in each of the country’s six zones: Kedah, Selangor, Johore, Terengganu, Sabah and Sarawak.

In both countries, within each province or state, there was a secondary stratification into urban and rural parts. Ultimate sample allocations within the secondary strata were made proportional to their sizes.

In Malaysia, two urban districts and two rural districts were selected within each state with probability proportional to size, and each pair of districts was pooled. In Thailand, “districts” were taken to coincide with the urban and rural sections of the provinces. In each country, sub-districts and communities were selected within urban and rural districts, with probability proportional to population size. Each selected last-stage unit was divided conceptually into clusters of size about 300 dwellings, and sampling of these provided a total of about 125 sampled clusters in each country. Each cluster was given a quota of about 16 adult smokers, and a corresponding quota of non-smokers and youth. In Malaysia, the basis of the frame was provided by the Ministry of Health, and where necessary, the cluster quotas were divided among several sub-clusters or Enumeration Blocks (EBs) of 80-120 dwellings each. A sample of 30 addresses was taken from each EB.

Households were selected within each EB or cluster using systematic sampling methods in Malaysia and enumeration followed by simple random sampling in Thailand. Sampling within a cluster proceeded until the respondent quota in each sampling category was filled. Once a potentially eligible household was identified and contacted, interviewers enumerated all household members. In Thailand, a maximum of 3 respondents were selected from each household: one female adult smoker, one male adult smoker, and one youth respondent. In Malaysia, one adult non-smoker per household was also surveyed, for a maximum of 4 respondents per household. In households with more than one eligible respondent per quota cell, respondents were randomly selected by using a variant of the Kish Grid.

Complete disposition counts are not available for attempts to enumerate households and interview individuals. However, summaries of field reports give some indication of success rates. In Thailand, 4207 households were contacted and 2470 yielded interviews, for a combined eligibility and cooperation rate of 2470/4207 = 0.587; in Malaysia, the same calculation gives a combined eligibility and cooperation rate of 2821/8697= 0.324, reflecting a more urbanized and heterogeneous population.

Data collection

Adult respondents were interviewed face-to-face, in interviews taking about 50 minutes for smokers and 10 minutes for non-smokers.

Youth respondents completed a 30-minute self-administered (i.e., paper and pencil) questionnaire. In Malaysia, questionnaires were available in either English or Malay; in Thailand, all respondents completed surveys in Thai. Youth respondents were instructed to complete the survey in a “private area” to ensure privacy from family members, and were instructed to seal the survey in an envelope in order to maintain confidentiality and to encourage truthful reporting. Parental permission and youth consent were ascertained prior to surveying. Youth respondents were provided with a t-shirt in
appreciation for their time.

The surveys were conducted between January and March 2005. In Malaysia, the study was administered by experienced interviewers from the Ministry of Health and from the National Poison Centre (University Sains Malaysia); fieldwork in Thailand was completed by experienced interviewers form the Institute for Population Health Research (University of Mahidol). All survey questions and study procedures were standardized as far as possible across the two countries. Additional information on the research design and survey methodology is available.

References

The following table sets out the preliminary “theoretical” design.

<table>
<thead>
<tr>
<th>Country</th>
<th>Malaysia</th>
<th>Thailand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cluster quotas (approximately; can be adjusted so that overall quotas are met)</td>
<td>16 adult smokers; 8 adolescents; 12 adult non-smokers About 3 “enumeration blocks” per cluster, each with a quota of 5 or 6 adult smokers, 3 or 4 adult non-smokers, 2 or 3 youth</td>
<td>16 adults; 8 adolescents:</td>
</tr>
<tr>
<td>Approximate number of clusters</td>
<td>2000/16=125 clusters; 400 EBs</td>
<td>2000/16=125</td>
</tr>
<tr>
<td>Primary stratification</td>
<td>6 Zones, each with 1, 2 or 3 states</td>
<td>4 Regions, Bangkok; each region divided into provinces</td>
</tr>
<tr>
<td>Stratum representatives</td>
<td>1 state per zone, selected with probability proportional to population size</td>
<td>2 provinces per region; Bangkok itself</td>
</tr>
<tr>
<td>Secondary stratification</td>
<td>Urban/rural within zones; 12 altogether</td>
<td>Urban/rural within selected provinces; 8 plus 1 for Bangkok</td>
</tr>
<tr>
<td>Sample allocation to strata for adult smokers (total 2000)</td>
<td>Number of individuals proportional to population size</td>
<td>Number of individuals proportional to population size</td>
</tr>
<tr>
<td>Stratum allocations (numbers of adult smokers); non-Bangkok</td>
<td>1U 165, 1R 105; 2U 410,2R 250; 3U 230, 3R 140; 4U 185, 4R 115; 5U 135, 5R 85; 6U 110, 6R 70</td>
<td>NorthU 76, NorthR 294, NEU 116, NER 564, CentU 164, CentR 312, SouthU 60, SouthR 204</td>
</tr>
<tr>
<td>Allocation to Bangkok</td>
<td>N/a</td>
<td>210</td>
</tr>
<tr>
<td>Pseudo-PSUs</td>
<td>Two urban districts (cities) selected within each state (except for Zones 3 and 4 which have only one each) with probability proportional</td>
<td>Urban and rural parts of selected provinces; Bangkok; 8 + 1 in all</td>
</tr>
</tbody>
</table>
Two rural districts selected within each state with probability proportional to size, then pooled. 10 urban; 6 rural

<table>
<thead>
<tr>
<th>Sample allocation to PSUs</th>
<th>Secondary sampling units: rural</th>
<th>Secondary sampling units: urban, non-Bangkok</th>
</tr>
</thead>
<tbody>
<tr>
<td>Same as sample allocation to corresponding strata</td>
<td>2 or 3 subdistricts selected within each pseudo-PSU, with probability proportional to size (Ethnic composition of the rural part of the sample checked)</td>
<td>2 enumeration districts selected within each selected city in Zones 1, 2, 5, 6 using probability proportional to size; 4 enumeration districts selected within each selected city in Zones 3, 4 with probability proportional to size.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of cities visited, non-Bangkok</th>
<th>Secondary units: Bangkok</th>
<th>Tertiary sampling units: rural</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>N/a</td>
<td>2 communities selected within each secondary sampling unit, with probability proportional to size</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 tambons selected within each secondary sampling unit, with probability proportional to size; except in NE rural part, where 4 tambons per SSU are taken</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of communities: rural</th>
<th>Division into clusters (urban and rural)</th>
<th>Selection of clusters: rural</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Divide each selected last-stage unit into clusters of size about 300 dwellings, made of 3 EBs of 80-120 dwellings each.</td>
<td>Select 3n EBs in each tertiary unit at random, where n is approximately the PSU sample allocation divided by 64. Values of n are 1R 1 or 2; 2R 4; 3R 2; 4R 2; 5R 1; 6R 1</td>
</tr>
</tbody>
</table>

|                                       |                          | Select n clusters in each tertiary unit at random, where n is approximately the PSU sample allocation divided by 64. Values of n are NorthR 4 or 5; NER 9; CentR 5; SouthR 3. Alternative: take 4 |

<table>
<thead>
<tr>
<th>Number of cities visited, non-Bangkok</th>
<th>10</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Secondary units: Bangkok</th>
<th>13 enumeration districts, selected with probability proportional to size</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tertiary sampling units: rural</th>
<th>2 tambons selected within each secondary sampling unit, with probability proportional to size; except in NE rural part, where 4 tambons per SSU are taken</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Number of communities: rural</th>
<th>24</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Division into clusters (urban and rural)</th>
<th>Divide each selected last-stage unit into clusters of size about 300 dwellings.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Selection of clusters: rural</th>
<th>Select n clusters in each tertiary unit at random, where n is approximately the PSU sample allocation divided by 64. Values of n are NorthR 4 or 5; NER 9; CentR 5; SouthR 3. Alternative: take 4</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Number of communities: rural</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of rural clusters</td>
<td>About 47</td>
</tr>
<tr>
<td>--------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Selection of clusters: urban, non-Bangkok</td>
<td>Select 3n EBs in each secondary unit at random, where n is approximately the PSU sample allocation divided by 64. Values of n are 1U 2 or 3; 2U 6 or 7; 3U 3 or 4; 4U 3; 5U 2; 6U 2</td>
</tr>
<tr>
<td>Number of urban clusters, non-Bangkok</td>
<td>About 78</td>
</tr>
<tr>
<td>Selection of clusters: Bangkok</td>
<td>N/a</td>
</tr>
<tr>
<td>Household sampling</td>
<td>For each selected cluster, select 1 in 4 dwellings systematically and interview until quotas are filled</td>
</tr>
</tbody>
</table>

The essentials of this design were carried out in both countries. In Malaysia, the final sample included households from 265 urban EBs (88 “clusters”) and 143 rural EBs (48 “clusters”). In Thailand, the final sample included households from 13 clusters in Bangkok, 28 urban clusters outside Bangkok, and 87 rural clusters.

**Departures from the original design: Malaysia**

In some cases, despite covering all the 30 sampled addresses within an EB it was not possible to fill the quota of 5 or 6 adult smokers. For example, one EB in Miri, Sarawak contained only 2 adult smokers, due to a low prevalence of smoking) and another in Kedah contained only 4 adult smokers). In those cases it was decided to increase the quota in other selected EBs within the sub district by one or two adult smokers.

In certain other areas, very high refusals within the 30 sampled addresses made it impossible to complete the quota. In those cases it was decided to sample other addresses within the same EB where possible.

A few EBs with security problems (e.g terrorism) or occupation predominantly by non-citizens were replaced with new EBs. Similarly, EBs where it turned out that the residential part had been completely demolished, EBs which were completely flooded, and EBs that turned out to be very remote (many hours away on foot or by boat) were replaced with new EBs.

In EBs with no housing maps, (e.g Batu in Selangor), a walk with random starting point, and random choices when turning points were reached, was carried out, and one in four dwellings sampled systematically.
A difficulty was encountered in an urban area in the state of Selangor namely USJ in the Municipality of Subang Jaya, an upper middle class urban community. The team had randomly selected 32 EBs from this area, from which they had planned to select: 170 smokers, 128 non-smokers, 85 adolescents. After covering 30 EBs, they had managed to obtain 107 smokers, 109 non-smokers and 64 adolescents, even after taking additional addresses within each EB. The smoking rate was low, and the rate of refusal relatively high in this area. With no time to obtain maps of additional EBs, it was decided to turn to non-selected housing areas in the same municipality using the "random walk" method described in the previous paragraph. These housing areas were comprised of well organized building blocks of double storey terrace houses or apartments.

Other difficulties which did not lead to departures from the design were also noted. There were some problems entering dwellings in the states of Johore and Selangor, especially those of Chinese households. Possible reasons included preparations for the Chinese New Year Festival, and confusion with an anti dengue program going on at the same time. (The fieldworkers were using MOH vehicles.) Searching for rural dwellings was sometimes found to be difficult as the houses were scattered far apart without proper sign boards to the places. It was necessary to ask local people (including local children) to point out the houses and the roads.

**Departures from the original design: Thailand**

In Bangkok one cluster had to be changed as the cluster consisted of one very large dormitory. Permission to enter the dormitory was not provided. Therefore an adjacent cluster was randomly selected as a substitute. In two clusters, one in Bangkok and one in the South, only 6 eligible adolescent respondents could be interviewed. In each case an additional two adolescents were sampled from a nearby cluster that had already been sampled for the study.

In four of the eight selected provinces, only one urban district was available for selection. In the remaining four pseudo-PSU, two urban districts were selected with probability proportional to size.

During fieldwork 3 urban clusters that should have been included in the sampling frame were inadvertently excluded (2 urban clusters in Ban Pwae district of Samut Songkhram and 1 urban district in Hat Yai district of Songkhla). This mistake was not discovered until after the completion of fieldwork. The number of completed urban interviews, by region, was close to that targeted even with the dropped clusters because of the rounding up of the required clusters within regions.

In the Northern, Central and Southern regions, 2 tambons (sub-districts) were selected within each secondary sampling unit, with probability proportional to size. In the Northeast, 4 tambons were selected in each SSU, except for Pho Tak district of Nong Khai province, in which there were only 3 tambons. In this district, all 3 tambons were selected.

In the North, Northeast and Central Regions two villages were randomly selected from each tambon. Where the target number of villages to be selected in a region was greater than the number obtained from selecting two villages per tambon, extra villages were allocated by randomly selecting sampled tambons and randomly allocating additional villages. Therefore, some tambons had three villages sampled. In the South, the number of targeted villages was allocated to tambons within regions by probability proportional to size.
Appendix B: Household Enumeration Form and Kish Grid Instructions

SELECTION OF PARTICIPANTS FROM A HOUSEHOLD USING THE KISH GRID
(These instructions and the example are for Malaysia; the Thailand document is similar.)

Once you have enumerated the members of the household, you will select the participants to be interviewed. There are 4 categories: male adult smoker, female adult smoker, adult non-smoker, and adolescent. You will have quotas for adult smoker, adult non-smoker and adolescent. If the adult smoker quota is not yet filled, you will be selecting one male adult smoker if the household contains at least one, and one female adult smoker if the household contains at least one. (This might cause you to exceed the quota by one, if both male and female adult smokers exist in the household.) If the adult non-smoker quota is not yet filled, you will be selecting one adult non-smoker, and if the adolescent quota is not yet filled, you will be selecting one adolescent.

The Kish grid is used every time you have to make a selection within a category because there are two or more eligible household members.

The row of the grid to be used is the row corresponding to the number of household members in the category, e.g. if there are 3 adult non-smokers, use row 3 of the Kish grid to select an adult non-smoker.

The column of the grid to be used is the column corresponding to the last digit of the age of an adult household member. Each time you use the grid for a household, use the first listed age which you have not already used for that household. (You should put an X beside a listed age when you have finished using it.) See the example below.

The entry in the selected row and column tells you which household member to select. For example, if the entry is 2, select the individual who is the second listed person in the category.

In the example below, for Malaysia, consider each of the 4 categories in turn. (Suppose no quotas are filled.)

1) You select “R” for certain, since he is the only male adult smoker.

2) There are no female adult smokers.

3) You must choose between “O” and “Y” for the adult non-smoker. Since there are two, you take row #2 of the grid. Since the first adult age, namely the age of “R”, ends in 3, you take column #3 of the grid. The entry in row #2, column #3 is 2. Thus you select “Y”, who is listed second among adult non-smokers. You now put an X beside the age of “R”.

4) You must choose between “B” and “I” for the adolescent. Again you look at row #2, since there are two adolescents to choose from. The next adult age is that of “O”, and the last digit is 5. Thus you take column #5 of the grid. The entry in row #2, column #5 is 1. Thus you select “B”, who is listed first among the adolescents.

You have now selected “R”, “Y”, “B”.

---

## BORANG A

### PENILAIAN KEMPEN 'TAK NAK' DAN TINJAUAN POLISI PENGAWALAN

**TEMBAKAU ANTARABANGSA**

### BORANG SOAL SELIDIK ISIRUMAH

<table>
<thead>
<tr>
<th>ID:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bandar/Mukim</td>
<td>Negeri</td>
</tr>
</tbody>
</table>

Maklumat Untuk berhubung:

| Nama Ketua Isirumah: | | Jumlah ahli dalam isirumah: |
|---------------------|------------------|

<table>
<thead>
<tr>
<th>Alamat:</th>
<th>Poskod:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Telefon:</th>
<th>HP:</th>
</tr>
</thead>
</table>

| Rumah: | |

Nama Pemberi Maklumat:

### REKOD LAWATAN – PERINGKAT ISIRUMAH (DIHISI SELEPAS TEMUBUAI)

<table>
<thead>
<tr>
<th>Bil Lawatan</th>
<th>Tarikh</th>
<th>Masa</th>
<th>Komen</th>
<th>Temujanji</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tbody>
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### Kod Keputusan Akhir Isirumah (Balatkan 1 sahaja):

1. TK tidak dapat dilkesan
2. TK losong
3. Bukan TK (cth. pemigaan)
4. Ancaman keselamatan
5. Masalah cuaca
6. Responden gagal dihubungi (selepas 4 kali lawatan)
7. Tiada jawapan (tempoh kajian tamat)
8. Isirumah enggan bekerjasama
9. Masalah bahasa
10. Lain-lain (nyatakan)...

### Etnik (Balatkan):

1. Melayu
2. Cina
3. India
4. Lain-lain
5. Tidak Pasti

### JIKA ISIRUMAH ENGGAN BEKERJASAMA:

1. Berapa orangkah yang berumur 18 tahun ke atas dalam rumah ini?
2. Berapa orangkah antara mereka yang merokok sekurang-kurangnya sekali dalam seminggu?
### BORANG B

**BORANG PEMILIHAN RESPONDEN**

<table>
<thead>
<tr>
<th>No</th>
<th>NAMA DEWASA* (Berumur 18 tahun dan ke atas)</th>
<th>Umur</th>
<th>Jantina L / P</th>
<th>Status Merokok P / BP</th>
<th>Dipiilih Y / T</th>
<th>Komen</th>
<th>Kod</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
</tbody>
</table>

*NAMA REMAJA (Berumur 13 – 17 tahun)*

<table>
<thead>
<tr>
<th>No</th>
<th>NAMA REMAJA</th>
<th>Umur</th>
<th>Jantina L / P</th>
<th>Status Merokok P / BP</th>
<th>Dipiilih Y / T</th>
<th>Komen</th>
<th>Kod</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

*Bulatkan nombor pemberi maklumat

TB – Tidak berkaitan

<table>
<thead>
<tr>
<th>Bilangan kanak-kanak berumur 5 tahun ke bawah dalam rumah ini.</th>
</tr>
</thead>
</table>

| Bilangan kanak-kanak antara 6-12 tahun dalam rumah ini. |

<table>
<thead>
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<td>R</td>
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* PL – Perokok Lelaki; PP – Perokok Perempuan; BP – Bukan Perokok; R - Remaja

**KISH GRID**

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<td>18 Tidak mendapat kebenaran keluarga</td>
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<td>19 Tinda di rumah dalam tempoh kajian</td>
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<td>20 Masalah bahasa</td>
</tr>
<tr>
<td>21 Masalah keusiaan / mental</td>
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<tr>
<td>22 Dikecualikan (selepas 4 kali gagal dibubungi)</td>
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<td>23 Berjaya ditemubual</td>
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</table>
Appendix C: Sample of Postcard for Malaysia

POSTCARD FOR PARTICIPANT TO NOTIFY A CHANGE OF ADDRESS AND CONTACT DETAILS

FRONT

To: Dr. Maizurah Omar  
Co-Investigator for ITC-SEA project  
National Poison Centre  
Universiti Sains Malaysia  
11800 Penang

BACK

Notification of Change of Address and Contact Details

Date: ......................

Name: .......................... .................................................................

Please be informed that my new address and contact details effective from date:
...../...../....... are as follows:

Address:

...................................................................................................................
...................................................................................................................
...................................................................................................................

............................................................................................................... Postcode: ................

Tel: ....................... Mobile: .............................

Affix stamp
Appendix D: Sample of Flash Card for Thailand

ข้อ 71-96

1. ไม่เห็นด้วยอย่างยิ่ง
2. ไม่เห็นด้วย
3. แม่ ๆ
4. เห็นด้วย
5. เห็นด้วย อย่างยิ่ง

ข้อ 59

1. ไม่กิจวัตร
2. กิจวัตรบ้าง
3. กิจวัตรมาก
Appendix E: Sample of Youth Consent Letter and Form for Malaysia (in Malay)

Penilaian Kempen ‘Tak Nak’

Dan

Tinjauan Polisi Pengawalan Tembakau Antarabangsa

BORANG MAKLUMAT PENGLIBATAN REMAJA

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PENYELIDIK:

Kementerian Kesihatan Malaysia

- Dr. Yahya Hj Baba, Pengarah Bahagian Pendidikan Kesihatan, Kementerian Kesihatan Malaysia.
- En. Norddin Daud, Ketua Penolong Pengarah, Bahagian Pendidikan Kesihatan, Kementerian Kesihatan Malaysia.
- Pn Haniza Mohd Anuar, Pegawai Penyelidik, Institut Penyelidikan Sistem Kesihatan, Kementerian Kesihatan Malaysia.
- Dr. Zarihah Md Zain, Ketua Penolong Pengarah, Bahagian Kawalan Penyakit, Kementerian Kesihatan Malaysia.
- En. Edmund Ewe, Pengurus Projek, Yayasan Promosi Kesihatan, Kementerian Kesihatan Malaysia.

Pusat Racun Negara Malaysia

- Profesor Madya Dr. Rahmat Awang, Pengarah Pusat Racun Negara, Universiti Sains Malaysia.
- Dr. Maizurah Omar, Pusat Racun Negara, Universiti Sains Malaysia.
- Profesor Madya Dr. Foong Kin, Pusat Penyelidikan Dadah dan Ubat-ubatan, Universiti Sains Malaysia.
- En. Razak Lajis, Pusat Racun Negara, Universiti Sains Malaysia.
PENGENALAN
Anda dipelawa untuk menyertai satu kajian penyelidikan yang melibatkan anda untuk melengkapkan satu borang soal selidik bertulis pada hari ini dan kemudian terlibat dalam dua lagi kajian dalam jangkamasa satu atau dua tahun kemudian. Kakitangan penyelidikan akan membekalkan satu borang soal selidik untuk dilengkapkan oleh anda sendiri dan dikembalikan dalam sampul surat yang bertutup.

TUJUAN KAJIAN
Tujuan kajian ini ialah untuk :-


b. Mengkaji pengalaman merokok di kalangan remaja tanpa mengambil kira sama ada mereka merokok atau tidak pada masa sekarang.

c. Menentukan tahap kesedaran di kalangan remaja tentang barangan berkaitan dengan perkara-perkara yang berlaku dalam komuniti yang berkaitan dengan rokok.

Kami juga akan mengkaji faktor-faktor yang mungkin mempengaruhi golongan remaja merokok dan faktor-faktor yang melindungi mereka daripada serta menentukan sama ada terdapat perbezaan antara faktor-faktor yang terdapat di Thailand dan Malaysia.

KELAYAKAN PENYERTAAN
Anda adalah remaja lelaki atau perempuan berumur di antara 13 tahun hingga 17 tahun. Anda boleh dari kalangan perokok atau bukan perokok.

PROSEDUR KAJIAN
Anda akan diberi satu set borang soal selidik dan diminta supaya melengkapkannya dengan sempurna. Masa untuk melengkapkan borang soal selidik akan mengambil lebih kurang 30 minit. Borang soal selidik yang telah lengkap dimasukkan dalam sampul surat bertutup sebelum diserahkan kembali kepada pegawai penyelidik. Anda akan diminta melengkapkan borang soal selidik dua kali lagi dalam jangkamasa satu atau dua tahun lagi.

RISIKO
Penglibatan responden dalam kajian ini tidak melibatkan sebarang risiko terhadap kesejahteraan atau ketidakselesaan baik dari segi fizikal, psikologi, sosial atau kebudayaan.

PENYERTAAN DALAM KAJIAN
Penglibatan dalam penyelidikan ini adalah secara sukarela dan anda bebas untuk menarik diri pada bila bila masa. Sekiranya anda bersetuju untuk mengambil bahagian, kami menggalakkan anda untuk terus kekal dalam penyelidikan ini dan melengkapkan ketiga-tiga borang soal selidik pada tahun berikutnya.

FAEDAH KAJIAN
Hasil kajian berpotensi membantu penyelidik menilai dan memahami kesan polisi kebangsaan kawalan tembakau dalam negara membangun yang mempunyai budaya berbeza. Ia juga dapat digunakan sebagai bukti oleh penggubal polisi dari seluruh dunia bagi membentuk dan melaksanakan polisi kawalan tembakau yang terbukti berkesan.

PERTANYAAN
Sekiranya anda mempunyai sebarang pertanyaan atau kemusykilan berkaitan projek penyelidikan ini, anda boleh berbincang dengan menghubungi

Kementerian Kesihatan Malaysia di
En. Norddin Daud           Tel : 012 287 4968
Penyelidik Bersama di Pusat Racun Negara, Universiti Sains Malaysia. Tel : 04-6570099
Dr. Maizurah Omar  
Dr. Foong Kin,  
Dr. Rahmat Awang  

Sekiranya anda masih mempunyai kemusykilan setelah berbincang dengan mana–mana penyelidik diatas, anda juga boleh menghubungi  

Profesor Ron Borland, Penyelidik utama dari The Cancer Council Victoria, 1 Rathdowne Street, Calton VIC 3053, Australia. Tel : (+613) 96355185  

Sekiranya anda tidak berpuas hati dengan tatacara perlaksanaan kajian dan ingin mengajukan aduan, anda boleh menghubungi :-  


Sekiranya anda merasakan jawatankuasa etika tempatan tidak dapat menyelesaikan kemusykilan anda pada tahap yang memuaskan anda boleh menghubungi jawatankuasa etika penyelidikan manusia di Australia :-  

Ms. Woody Macpherson, Head, Research Management Unit, The Cancer Council Victoria, 1 Rathdowne St. Carlton VIC 3053 Australia. Tel : (+613) 9635-5100.  

KERAHSIAAN  
Semua maklumat yang anda berikan akan dikendalikan sebagai ‘SULIT’, dan tidak akan dikemukakan kepada ibubapa atau penjaga anda, tertakluk kepada keperluan perundangan dan batasannya. Maklumat ini akan disimpan di tempat yang selamat dan hanya boleh dilihat oleh kumpulan penyelidik kajian ini. Data daripada kajian ini tidak akan dimusnahkan tetapi sebarang maklumat tentang anda akan dihapuskan supaya jawapan yang anda berikan tidak boleh dikaitkan kembali kepada anda. Selain daripada itu sebarang maklumat yang diterima oleh mana mana ahli keluarga anda yang mungkin terlibat dalam borang soal selidik ini juga akan dikendalikan sebagai ‘SULIT’. Kami telah menyediakan responden dengan borang maklumat sama seperti ini tetapi kami ingin anda menghubungi kami sekiranya anda mempunyai sebarang pertanyaan atau kemusykilan.  

TANDATANGAN  
Sekirannya anda bersetuju untuk melibatkan diri dalam kajian ini, anda mesti menandatangani borang keizinan.
Penilaian Kempen ‘Tak Nak’
Dan
Tinjauan Polisi Pengawalan Tembakau Antarabangsa

BORANG KEIZINAN REMAJA

PENYELIDIK :

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- Pn Haniza Mohd Anuar, Pegawai Penyelidik, Institut Penyelidikan Sistem Kesihatan,
- Kementerian Kesihatan Malaysia
- Dr. Zarihah Md Zain, Ketua Penolong Pengarah, Bahagian Kawalan Penyakit, Kementerian Kesihatan Malaysia
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- Profesor Madya Dr. Foong Kin, Pusat Penyelidikan Dadah dan Ubat-ubatan, Universiti Sains Malaysia.
- En. Razak Lajis, Pusat Racun Negara, Universiti Sains Malaysia.

Untuk melibatkan diri dalam kajian ini, anda mesti menandatangani borang ini.

Setelah menandatangani kertas ini, saya mengesahkan perkara berikut :-

- Projek ini dilaksanakan bagi tujuan penyelidikan.
- Penglibatan dalam penyelidikan ini adalah secara sukarela dan saya bebas untuk menarik diri pada bila bila masa atau bebas menarik balik sebarang maklumat yang telah diberikan.
- Penglibatan dalam penyelidikan pada hari ini melibatkan mengisi sendiri soal selidik kajian dan mengambil masa lebih kurang 30 minit dan akan diulangi sekali lagi dalam jangkamasa satu atau dua tahun dari sekarang.
• Hanya mereka yang terlibat dalam penyelidikan ini boleh menggunakan sebarang maklumat yang saya berikan.
• Semua maklumat yang saya berikan harus dianggap sebagai “SULIT” tertakluk kepada keperluan perundangan dan batasan.
• Saya telah membaca semua maklumat dalam borang maklumat penglibatan remaja dan borang memberi keizinan yang meliputi maklumat berkaitan risiko dan telahpun diberi masa yang secukupnya untuk memikirkan mengenainya.
• Semua pertanyaan telah dijawab sebaik mungkin.
• Saya secara sukarela bersetuju untuk melibatkan diri dalam kajian ini, mematuhi prosidur kajian dan memberikan maklumat sesuai dengan yang diminta.
• Saya telah menerima satu salinan maklumat remaja dan borang memberi keizinan untuk disimpan oleh saya.
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**Nota:**

Semua responden yang mengambil bahagian dalam kajian penyelidikan ini tidak dilindungi oleh insuran

Sila beritahu kumpulan penyelidik dengan menggunakan poskad yang dibekalkan sekarang berlaku sebarang perubahan sebelum kajian berakhir.
Appendix F: Sample of the Wave 1 Adult Smoker Survey Questionnaire in Thai

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Appendix G: Sample of Survey Forms for Malaysia (in Malay)

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**Borang B-1**

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Note: Data di dalam borang boleh diperlakukan sebagai penyelidik. Semua sekolah yang berada di kawasan tersebut yang keadaan di mana sedang berada semasa dan ditugaskan ke penyelidik boleh dilakukan perubahan tanpa adanya kerumitan dengan penyelidik semula.
Appendix H: Pictures of Survey Fieldwork in Thailand