TOBACCO QUESTIONS FOR SURVEYS (TQS) AND TOBACCO QUESTIONS FOR SURVEYS OF YOUTH (TQS-YOUTH)

OIC-SESRIC WEBINAR
09 DECEMBER 2020

Centers for Disease Control and Prevention
National Center for Chronic Disease Prevention and Health Promotion
Office on Smoking and Health, Global Tobacco Control Branch
GLOBAL TOBACCO SURVEILLANCE SYSTEM (GTSS)

**GYTS** | GLOBAL YOUTH TOBACCO SURVEY

**GATS** | GLOBAL ADULT TOBACCO SURVEY

**TQS** | TOBACCO QUESTIONS FOR SURVEYS

- TQS: A Subset of Key Questions from GATS
- TQS-Youth: A Subset of Key Questions from GYTS
GLOBAL STANDARDS

• Various surveys measure tobacco use in different ways
  • Sample design
  • Methodology: e.g., mode of administration
  • Questionnaire
• GYTS and GATS questions have become “Global” standards for systematic monitoring of tobacco use and key tobacco control indicators
DEVELOPMENT OF TQS & TQS-YOUTH

• 2008-2009: Development of TQS
• 2010: TQS 1st Edition booklet release event in Dublin, Ireland
• 2013: TQS 2nd Edition release event at the World Health Organization (WHO), Geneva, Switzerland
  • Minor updates
• 2017-2018: Development of TQS-Youth
• 2019: TQS-Youth webinar release event
TQS/TQS-YOUTH FEATURES

• Simple, standard, scientific, and tested questions
• Include questions into national and international surveys
  • National health surveys, multi-risk factor surveys, demographic health surveys, non-health surveys
• Sustainable monitoring of tobacco use & key policy measures
• Enhancement of capacity for global monitoring and comparability
STRUCTURE OF TQS (ADULT) GUIDE

- Menu of tobacco indicators/survey questions:
  - Questions on smoking tobacco prevalence (3 questions)
  - Questions covering key topics (19 questions)
    - Smoking tobacco products (prevalence and quantity/frequency)
    - Smokeless tobacco prevalence
    - Exposure to secondhand smoke
    - Cessation
    - Anti-cigarette information
    - Cigarette advertising
    - Economics
- Select indicators and corresponding survey questions based on country need and tobacco control situations
- Countries can select all or some of questions
<table>
<thead>
<tr>
<th>Tobacco Topic</th>
<th>Indicator Name and Description</th>
</tr>
</thead>
</table>
| Q1. Current tobacco smoking status | **Current Tobacco Smokers**  
Percentage of respondents who currently smoke tobacco. |
| | **Current Daily Tobacco Smokers**  
Percentage of respondents who currently smoke tobacco daily. |
| Q2a. Past daily smoking status (for current less than daily smokers) | **Former Daily Tobacco Smokers (Among All Adults)**  
Percentage of respondents who are ever daily tobacco smokers and currently do not smoke tobacco. |
| Q2b. Past smoking status (for current non-smokers) | **Former Daily Tobacco Smokers (Among Ever Daily Smokers)**  
Percentage of ever daily tobacco smokers who currently do not smoke tobacco. |
Q1. Current Tobacco Smoking Status

Do you currently smoke tobacco on a daily basis, less than daily, or not at all?

DAILY 1
LESS THAN DAILY 2
NOT AT ALL 3
DON’T KNOW 7

Purpose
Determines the current tobacco smoking status of the respondent.

Instructions
Ask question and record only one answer. (DON’T KNOW should not be read to the respondent.)

Definitions
Daily means smoking at least one tobacco product every day or nearly every day.

Indicator 1
Current Tobacco Smokers: Percentage of respondents who currently smoke tobacco.
Numerator: Number of current daily and less than daily tobacco smokers.
Denominator: Total number of respondents surveyed.

Indicator 2
Current Daily Tobacco Smokers: Percentage of respondents who currently smoke tobacco daily.
Numerator: Number of current daily tobacco smokers.
Denominator: Total number of respondents surveyed.
Table 11-1. Detailed Smoking Status by Gender

<table>
<thead>
<tr>
<th>Smoking Status</th>
<th>Overall</th>
<th>Male</th>
<th>Female</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current tobacco smoker</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daily smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occasional smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occasional, formerly daily</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Occasional, never daily</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Current non-smoker</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Former smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Former daily smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Former occasional smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Former occasional smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Never smoker</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Percentage (95% CI)
STRUCTURE OF TQS-YOUTH GUIDE

• Menu of tobacco indicators/survey questions:
  • Questions on tobacco use prevalence (5 questions)
  • Questions covering key topics (16 questions)
    • Cessation
    • Secondhand smoke
    • Accessibility
    • Anti-tobacco information
    • Tobacco advertising and promotions
    • Electronic cigarettes
  • Select indicators and corresponding survey questions based on country need and tobacco control situations
  • Countries can select all or some of questions
<table>
<thead>
<tr>
<th>Tobacco Topic</th>
<th>Indicator Name and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q1. Ever cigarette smoking</td>
<td>Ever Cigarette Smokers&lt;br&gt;Percentage of youth who ever smoked a cigarette.</td>
</tr>
<tr>
<td>Q2. Age at cigarette smoking initiation</td>
<td>Age at Cigarette Smoking Initiation&lt;br&gt;Percentage of youth who first tried a cigarette at the age of [7 or younger; 8 or 9; 10 or 11; 12 or 13; 14 or 15] years old.</td>
</tr>
<tr>
<td>Q3. Current cigarette smoking</td>
<td>Current Tobacco Smokers&lt;br&gt;Percentage of youth who currently smoke any tobacco products.</td>
</tr>
<tr>
<td>Q4. Current other tobacco smoking</td>
<td>Current Cigarette Smokers&lt;br&gt;Percentage of youth who currently smoke cigarettes.</td>
</tr>
<tr>
<td>Q5. Current smokeless tobacco use</td>
<td>Frequent Cigarette Smokers&lt;br&gt;Percentage of youth who smoked cigarettes on 20 or more days of the past 30 days.</td>
</tr>
<tr>
<td></td>
<td>Current Smokers of Other Products&lt;br&gt;Percentage of youth who currently smoke tobacco products other than cigarettes.</td>
</tr>
<tr>
<td></td>
<td>Current Smokeless Tobacco Users&lt;br&gt;Percentage of youth who currently use smokeless tobacco products.</td>
</tr>
<tr>
<td></td>
<td>Current Tobacco Users&lt;br&gt;Percentage of youth who currently use any tobacco products.</td>
</tr>
</tbody>
</table>
Q1. Ever Cigarette Smoking

Have you ever tried or experimented with cigarette smoking, even one or two puffs?

a. Yes
b. No

Purpose
Determine whether respondents ever smoked a cigarette.

Indicator
Ever Cigarette Smokers: Percentage of youth who ever smoked a cigarette.
Numerator: Number of respondents who tried or experimented with cigarette smoking, even one or two puffs.
Denominator: Total number of respondents to the question.
Table 11-1. Detailed tobacco use status, overall and by gender

<table>
<thead>
<tr>
<th></th>
<th>Overall</th>
<th>Boys</th>
<th>Girls</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Smoked Tobacco</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current tobacco smokers(^1)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current cigarette smokers(^2)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequent cigarette smokers(^3)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current smokers of other tobacco(^4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ever cigarette smokers(^5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Smokeless Tobacco</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current smokeless tobacco users(^6)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tobacco Use</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current tobacco users(^7)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Smoked tobacco anytime during the past 30 days. 2. Smoked cigarettes anytime during the past 30 days. 3. Smoked cigarettes on 20 or more days of the past 30 days. 4. Smoked tobacco other than cigarettes anytime during the past 30 days. 5. Ever smoked cigarettes, even one or two puffs. 6. Used smokeless tobacco anytime during the past 30 days. 7. Smoked cigarettes and/or other smoked tobacco, and/or used smokeless tobacco anytime during the past 30 days.

* 95% Confidence Interval
TQS GUIDELINES: STUDY DESIGN

- TQS (GATS) questions developed for and tested in survey populations 15 years of age or older
- TQS (GATS) questions developed for a face-to-face household survey
  - Adaptation may be needed for other modes of administration (e.g., telephone, mail, internet)
• TQS-Youth (GYTS) questions developed for and tested in survey populations 13 to 15 years of age

• TQS-Youth (GYTS) questions developed for a school-based, self-administered survey
  • Paper and pencil questionnaire using a scannable answer form (“bubble sheet”)
  • No skip logic in GYTS ensures students complete at approximately the same time

• Adaptation may be needed for other modes of administration (e.g., interviewer administered)
• Encouraged to use all questions (22 TQS / 21 TQS-Youth) for comprehensive evaluation
  • Note: Additional questions from GATS/GYTS can be included if needed (e.g., electronic cigarettes, heated tobacco products)
• Questions should be placed together in the same section of the questionnaire
• Placement in a multi-topic survey depends on survey purpose, topics, and length
• Keep question wording the same for purposes of comparability and validity
  • Minor adaptations may be needed (e.g., for different mode of administration)
GUIDELINES: USE OF DATA

• Monitoring and evaluation of existing tobacco control policies and programs
• Inform development and implementation of new interventions at community, sub-national, and national levels
• Comparison to past and current surveys with tobacco questions
  • Interpret carefully, taking-into-account differences in survey methods (such as questionnaire wording, context, sample design, target population, mode of administration, etc.)
GUIDELINES: DATA DISSEMINATION MATERIALS

- Populated tables
- Tobacco report
- Tobacco fact sheet
- Tobacco control brief
- Research graphs, publications
Health Interview Survey (HIS) results on tobacco are not shared with public for the years GATS implemented as well (2008, 2012). Results for 15+.

Source: TurkStat presentation at the 2014 OIC-SESRIC StatCom meeting
MONITORING TOBACCO USE OVER TIME USING TQS: BRAZIL

Prevalence of current tobacco smoking among adults aged 18 and above in Brazil

Source: Global Adult Tobacco Survey (GATS-2008) & National Health Survey (NHS-2013)
GUIDELINES: TECHNICAL PACKAGE

- TQS/TQS-Youth guide booklet
  - English, Arabic, Chinese, French, Portuguese, Russian, Spanish
- TQS Mini fold-out pocket guide
  - English, Arabic, Chinese, French, Russian, Spanish
- TQS Partner Guidance
- TQS fact sheet template
GUIDELINES: TECHNICAL ASSISTANCE

- TQS and TQS-Youth are open-source tools
  - CDC tracks use globally
- Expert consultation from CDC and WHO
  - Questionnaire: wording, skip logic, placement
  - Study design: sample design, data collection procedures
  - Analysis and reporting: construction of indicators, tables, graphs
97 countries have completed surveys with TQS integration

23 of these countries with > 1 integration
SURVEY PLATFORMS FOR TQS & TQS-YOUTH INTEGRATION

**National**
- Health surveys
  - NCD multi-risk factor
  - Nutrition and examination surveys
  - Tuberculosis
- Household living standards, budget surveys
- Standalone tobacco surveys

**International**
- STEPwise approach to Surveillance (STEPS)
- Global School Health Survey (GSHS)
- Demographic and Health Surveys (DHS)
- Multiple Indicator Cluster Surveys (MICS)
- European Health Interview Survey (EHIS)
- Reproductive Health Surveys (RHS)
- Drug use surveys (United Nations Office on Drugs and Crime / Organization of American States)
FUTURE ACTIVITIES

• TQS
  • Continued promotion of TQS integration into surveys
  • Data dissemination, data to action

• TQS-Youth
  • Translation
  • Promotion for TQS-Youth integration into surveys
    • Engagement with surveillance systems
    • Engagement with countries
    • Release at conferences/meetings
THANK YOU

To download the TQS and TQS-Youth booklets, go to:
bit.ly/TQS-adult
bit.ly/TQSYouth

For more information about the TQS initiative, contact us at GTSSinfo@cdc.gov