National Quitline Data Warehouse (NQDW): Changes to Data Collection in 2016

HENRAYA F. MCGRUDER, PHD
OFFICE ON SMOKING AND HEALTH
CENTERS FOR DISEASE CONTROL AND PREVENTION

NATHAN MANN
CENTER FOR HEALTH POLICY SCIENCE AND TOBACCO RESEARCH
RTI INTERNATIONAL
NQDW Structure, 2010-2011

National Quitline Data Warehouse (NQDW)

Quarterly Quitline Services Survey Data

Individual-Level Intake Data

Individual-Level Follow-Up Data
NQDW Structure, 2012-2015

Collection of Individual-Level 7-month Follow-Up Data was discontinued in 2012

Several changes were made to the Quarterly Services Survey

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Diagram:

- National Quitline Data Warehouse (NQDW)
  - Quarterly Quitline Services Survey Data
  - Individual-Level Intake Data
Changes to the NQDW in 2016

- CDC obtained OMB approval to continue the NQDW for an additional 3 years, beginning in 2016

- OMB renewal authorized several changes to the NQDW
  - Asian Smokers’ Quitline (ASQ) will begin submitting data to the NQDW
  - 5 additional questions/measures added to the NQDW intake data (starting with intake data for 2016-Q1)

- CDC also will resume collecting administrative intake data (beginning Summer 2016)
NQDW Structure, 2016

National Quitline Data Warehouse (NQDW)

Quarterly Quitline Services Survey Data

Intake Data
- Original Measures
- New Intake Measures

Individual-Level Follow-Up Data
- Asian Smokers’ Quitline Only

- Health insurance status
  - Type of health insurance
  - Pregnancy status
  - Mental health conditions
  - Language of service
New Questions added to NQDW
Individual-Level Intake Questionnaire

- **Health Insurance Status**
  - Do you have any health insurance, including pre-paid (such as XXX – provide examples for your state) or government programs (such as Medicaid or Medicare)? Answer options: Yes, No, Don’t know, Refused, Not asked

- **Health Insurance Type**
  - What type of health insurance do you have? Answer options: Private Insurance, Medicaid, Medicare, Military insurance, Don’t know, Refused, Not Asked

- **Pregnancy Status**
  - We have some additional materials for pregnant women. Are you currently pregnant? Answer Options: Yes, No, Refused
New Questions added to NQDW Individual-Level Intake Questionnaire

- **Mental Health Conditions**
  - Do you have any mental health conditions, such as an anxiety disorder, depression disorder, bipolar disorder, alcohol/drug abuse, or schizophrenia? Answer options: Yes, No, Refused

- **Language of Service**
  - No specific question for this measure; this is information that the quitline service provider likely tracks and maintains in their data management systems. What we would like to know for each caller is:
    - Language in which service was provided to the caller (specify)
    - Indicator for whether service was provided to the caller in-language or through a translation service
Rationale for Collecting New Intake Data Measures

- Adding these five measures to the NQDW will allow CDC to
  - Better understand and monitor use of quitlines by priority populations
  - Evaluate the effectiveness of programs directed at priority populations

- Other reasons for collecting new intake data measures
  - NQDW intake data measures have not changed since 2010
  - Most quitline service providers collect these measures
  - Many states already submit these measures to the NQDW
Data Submission Specifications for New Intake Data Measures

- Question wording and response options are expected to vary by state and quitline service provider
- New measures should be added as additional columns to existing intake data files submitted to NQDW quarterly
- No “standard” format for the new measures
  - Number of new data columns and response options are expected to vary by state
- Sufficient documentation (e.g. question associated with each variable and variable response options) should be provided for the new intake data measures
Example: New Intake Data Measures

New intake data measures should be added as columns to the intake data files that states already submit to NQDW quarterly.

<table>
<thead>
<tr>
<th>Quitline State</th>
<th>Caller ID</th>
<th>Intake Date</th>
<th>Gender</th>
<th>Insured</th>
<th>Type of Health Insurance</th>
<th>Pregnancy Status</th>
<th>Mental Health Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Anxiety</td>
</tr>
<tr>
<td>Demo State</td>
<td>000001</td>
<td>6/1/16</td>
<td>Female</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Demo State</td>
<td>000002</td>
<td>6/1/16</td>
<td>Male</td>
<td>Yes</td>
<td>Private Insurance</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Demo State</td>
<td>000003</td>
<td>6/1/16</td>
<td>Female</td>
<td>Yes</td>
<td>Medicaid</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Demo State</td>
<td>000004</td>
<td>6/2/16</td>
<td>Male</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Demo State</td>
<td>000005</td>
<td>6/2/16</td>
<td>Female</td>
<td>Yes</td>
<td>Medicare</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Demo State</td>
<td>000006</td>
<td>6/3/16</td>
<td>Female</td>
<td>Yes</td>
<td>Private Insurance</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Original Individual-level Intake Data Measures:
Will remain the same as previous data submissions.

New Individual-Level Intake Data Measures:
Will be added as additional columns to NQDW intake data submission files.

Note: the actual columns and response options included in intake data files submitted to the NQDW may vary from state to state depending on how quitline service providers collect and maintain this information.
Resuming Collection of Administrative Intake Data

- Consists of two separate components
  - Additional intake data measures
  - Separate data file containing a single record for each counseling call attempted or completed

- Data are not associated with questions asked of callers but are from data entered and maintained by quitline service providers

- Part of the original NQDW data submission requirements

- Collection of this data was suspended in 2011

- CDC is now resuming collection of these data using a different approach, beginning in Summer 2016

- Many are already submitting these data to the NQDW
Administrative Intake Data

- Additional Intake Data Measures in Administrative Intake Data
  - Mode of entry
  - Service registered for / received
  - NRT eligibility / provision

- Counseling Sessions Data File
  - One data record per counseling call attempted or completed

Data expected to differ widely across states and quitline service providers

- Submit whatever data are available in whatever format
- Provide sufficient documentation for whatever data are submitted
Upcoming Structure of the NQDW

**National Quitline Data Warehouse (NQDW)**

- **Quarterly Services Survey Data**
  - Health insurance status
  - Type of health insurance
  - Pregnancy status
  - Mental health conditions
  - Language of service

- **Intake Data**
  - Original Measures
  - New Measures
  - Administrative Intake Data Measures

- **Follow-Up Data (ASQ Only)**
  - Administrative Intake Data: Counseling Session Data Records
    - Separate data records for each counseling session attempted or completed

- **Administrative Intake Data**
  - Mode of Entry
  - Services Registered For
  - Services Received
  - NRT Received

**Since 2010**
- Starting with 2016-Q1
- To be added in 2016
Example: Administrative Intake Data – Intake Data Measures

Administrative intake data measures should be added as columns to the intake data files that states already submit to NQDW quarterly.

<table>
<thead>
<tr>
<th>Quitline State</th>
<th>Caller ID</th>
<th>Intake Date</th>
<th>(Other Variables in the Standard Intake Data File)</th>
<th>Insured</th>
<th>Type of Health Insurance</th>
<th>Pregnancy Status</th>
<th>(Mental Health Conditions)</th>
<th>Language of Service</th>
<th>Mode of Entry</th>
<th>Service</th>
<th>NRT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demo State</td>
<td>000001</td>
<td>6/1/16</td>
<td>…</td>
<td>No</td>
<td>Not Pregnant</td>
<td>(not shown)</td>
<td>English</td>
<td>Telephone</td>
<td>Single-Session Counseling</td>
<td>None Provided</td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000002</td>
<td>6/1/16</td>
<td>…</td>
<td>Yes</td>
<td>Private Insurance</td>
<td>(not shown)</td>
<td>English</td>
<td>Telephone</td>
<td>Multi-Session Counseling</td>
<td>Patches</td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000003</td>
<td>6/1/16</td>
<td>…</td>
<td>Yes</td>
<td>Medicaid</td>
<td>Pregnant</td>
<td>(not shown)</td>
<td>English</td>
<td>Electronic Referral</td>
<td>Multi-Session Counseling</td>
<td>None Provided</td>
</tr>
<tr>
<td>Demo State</td>
<td>000004</td>
<td>6/2/16</td>
<td>…</td>
<td>No</td>
<td>(not shown)</td>
<td>Spanish</td>
<td>Website</td>
<td>Self-Help Materials Only</td>
<td>None Provided</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000005</td>
<td>6/2/16</td>
<td>…</td>
<td>Yes</td>
<td>Medicare</td>
<td>Not Pregnant</td>
<td>(not shown)</td>
<td>Telephone</td>
<td>General Questions</td>
<td>None Provided</td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000006</td>
<td>6/3/16</td>
<td>…</td>
<td>Yes</td>
<td>Private Insurance</td>
<td>Not Pregnant</td>
<td>(not shown)</td>
<td>English</td>
<td>Website</td>
<td>Multi-Session Counseling</td>
<td>Patches</td>
</tr>
</tbody>
</table>

Notes: the actual columns and response options included in intake data files submitted to the NQDW may vary from state to state depending on how quitline service providers collect and maintain this information.
Example: Administrative Intake Data – Counseling Sessions Data File

This will be a completely separate file that includes one data record for each counseling session attempted or completed. The data records in this file will be linked back to the intake data records based on the Caller ID variable.

<table>
<thead>
<tr>
<th>Quiltline State</th>
<th>Caller ID</th>
<th>Intake Date</th>
<th>Call Date</th>
<th>Call Number</th>
<th>Call Length (minutes)</th>
<th>Call Complete</th>
<th>Contact Type</th>
<th>Call Type</th>
<th>Quit Stage</th>
<th>Quit Duration</th>
<th>Planned Quit Date</th>
<th>Actual Quit Date</th>
<th>Cigarettes Per Day</th>
<th>NRT Shipped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demo State</td>
<td>000001</td>
<td>6/1/16</td>
<td>6/1/16</td>
<td>1</td>
<td>20</td>
<td>Yes</td>
<td>Intervention</td>
<td>Ongoing</td>
<td>Contemplation</td>
<td>6/15/16</td>
<td>20</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000001</td>
<td>6/1/16</td>
<td>6/8/16</td>
<td>2</td>
<td>15</td>
<td>Yes</td>
<td>Intervention</td>
<td>Ongoing</td>
<td>Preparation</td>
<td>6/15/16</td>
<td>15</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000001</td>
<td>6/1/16</td>
<td>6/15/16</td>
<td>3</td>
<td>11</td>
<td>Yes</td>
<td>Intervention</td>
<td>Ongoing</td>
<td>Action</td>
<td>Less than 24 hours</td>
<td>6/15/16</td>
<td>6/15/16</td>
<td>0</td>
<td>No</td>
</tr>
<tr>
<td>Demo State</td>
<td>000002</td>
<td>6/2/16</td>
<td>6/2/16</td>
<td>1</td>
<td>10</td>
<td>Yes</td>
<td>Intervention</td>
<td>Ongoing</td>
<td>Maintenance</td>
<td>24 hours – 7 days</td>
<td>0</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000002</td>
<td>6/2/16</td>
<td>6/10/16</td>
<td>2</td>
<td>0</td>
<td>Yes</td>
<td>Attempt</td>
<td>Ongoing</td>
<td>Contemplation</td>
<td>20</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000003</td>
<td>6/5/16</td>
<td>6/5/16</td>
<td>1</td>
<td>15</td>
<td>Yes</td>
<td>Intervention</td>
<td>Ongoing</td>
<td>Action</td>
<td>7 days – 1 month</td>
<td>0</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Demo State</td>
<td>000003</td>
<td>6/5/16</td>
<td>6/6/15</td>
<td>2</td>
<td>5</td>
<td>Yes</td>
<td>Intervention</td>
<td>Action</td>
<td>7 days – 1 month</td>
<td>0</td>
<td>No</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: the actual columns and response options included in the counseling session data files submitted to the NQDW will vary from state to state depending on how quitline service providers collect and maintain this information.
Justification for Collecting Administrative Intake Data

Administrative Intake Data will allow CDC to determine and track:

- How quitline users are coming to the quitline (telephone, web, referral)
- Services quitline callers are registering for and receiving (counseling, self-help materials, general questions)
- Whether callers are eligible for NRT from quitlines
- Whether callers received NRT from quitlines
- Number of counseling sessions completed by callers
- Intermediate cessation outcomes that arise during the course of counseling
Take-Home Message

Adding five new questions to NQDW Intake Questionnaire
- Health insurance status, health insurance type (Medicare/Medicaid), Pregnancy status, mental health conditions, and language of service

Resume collection of administrative intake data
- Provided example of data entry for administrative intake data

CDC expects data to differ widely across states and quitline service providers
Questions?

Contact:

Henraya F. McGruder, PhD
Office on Smoking and Health
Centers for Disease Control and Prevention
(770) 488-8266
hdd8@cdc.gov

Nathan Mann, BA
Center for Health Policy Science and Tobacco Research
RTI International
(919) 485-5584
nmann@rti.org

For more information, contact CDC
1-800-CDC-INFO (232-4636)

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Conducting Policy Evaluations: Tobacco Control Examples from Oregon and Massachusetts

Date: Thursday, June 23, 2016

Time: 3:00-4:30PM EDT

Speakers:
Shaun Parkman, Oregon Health Authority
Glory Song, Massachusetts Department of Public Health