Challenges in Identifying Refugees in National Health Data Sets

Wagahta Semere, MD, Katherine Yun, MD, Cyrus Ahalt, MPP, Brie Williams, MD, and Emily A. Wang, MD

Objectives. To evaluate publicly available data sets to determine their utility for studying refugee health.

Methods. We searched for keywords describing refugees in data sets within the Society of General Internal Medicine Dataset Compendium and the Inter-University Consortium for Political and Social Research database. We included in our analysis US-based data sets with publicly available documentation and a self-defined, health-related focus that allowed for an examination of patient-level factors.

Results. Of the 68 data sets that met the study criteria, 37 (54%) registered keyword matches related to refugees, but only 2 uniquely identified refugees.

Conclusions. Few health data sets identify refugee status among participants, presenting barriers to understanding refugees’ health and health care needs.


Methods

We used 2 comprehensive online sources of publicly available health research data, the Society of General Internal Medicine (SGIM) Dataset Compendium and the Inter-University Consortium for Political and Social Research (ICPSR), to identify data sets. The SGIM compendium comprises links to health service research data, and the ICPSR database includes social and behavioral health data. Finally, we characterized the study focus (health care access/use/costs, social determinants of health, health status/risk behaviors/outcomes) and sample construction (longitudinal, cross sectional) of each data set.

RESULTS

Of the 161 SGIM and ICPSR data sets reviewed, 68 met our inclusion criteria. Thirty (44%) of the data sets did not register any keyword matches in terms of information related to refugees. Thirty-seven data sets (54%) registered some keyword matches but did not uniquely identify refugees (Figure A and Figure B, available as supplements to the online version of this article at http://www.ajph.org). Fewer than half (n = 32) of the data sets specifically included refugee health data. Finally, we characterized the study focus (health care access/use/costs, social determinants of health, health status/risk behaviors/outcomes) and sample construction (longitudinal, cross sectional) of each data set.

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(n = 21), only a minority subcategorized noncitizen status (n = 8).

Only 2 studies, the National Epidemiologic Survey on Alcohol and Related Conditions and the New Immigrant Survey, uniquely identified current or former US refugees (Table 1).

**DISCUSSION**

Our analysis of the nation’s largest compendia of publicly available health data showed that only 2 studies (3%) could be used to study the health of refugees. We recommend expanding demographic questions in longitudinal data sets that focus on mental health and chronic disease, topics increasingly relevant to refugees.4,5,8,10 This can be done while maintaining sensitivity in questions pertaining to immigration status. For example, in Denmark, national data on country of birth and year of arrival can be linked to health service registry data, providing a proxy for identifying refugees in health data sets and opportunities for expanded research on refugee health.11

In the United States, the National Epidemiologic Survey on Alcohol and Related Conditions includes questions about self-reported refugee status, country of origin, and duration of US residency that may be appropriate for surveys focusing on mental health or access to care (Table 1). The New Immigrant Survey includes questions about country of first asylum, which may be particularly important in surveys focusing on young adults or chronic disease. In our experience, these questions may be less stigmatizing than other immigration-related questions (e.g., those intended to identify undocumented individuals).

Although we reviewed only a sample of all available health data sets, we included the most widely accessed national studies of health. Our study demonstrates that several frequently used health data sets may include refugees in their samples but fail to identify refugee status in their coding methodologies. As the number of refugees worldwide continues to grow, policies and programs that best meet the health needs of these populations will require adequate data. Collecting information about refugee status in national health data sets is a critical first step in illuminating the health care needs of refugees living in the United States.

**PUBLIC HEALTH IMPLICATIONS**

Information about refugee status in US national health surveys should include expanded demographic questions and should focus on mental health and chronic disease.

**CONTRIBUTORS**

W. Semere, C. Aihal, B. Williams, and E. A. Wang contributed to the study concept and design. W. Semere, K. Yun, and E. A. Wang contributed to analysis and interpretation of the data. All of the authors contributed to preparation and critical reviews of the article.

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**HUMAN PARTICIPANT PROTECTION**

No protocol approval was needed for this study because no human participants were involved.

**REFERENCES**


7. Inter-University Consortium for Political and Social Research. ICPSR home page. Available at: https://www.icpsr.umich.edu/icpsrweb/content/membership/about.html. Accessed April 2, 2016.


**TABLE 1—US Data Sets That Can Be Used to Study Current or Former Refugees**

<table>
<thead>
<tr>
<th>Data Set/Study</th>
<th>Sample</th>
<th>Focus</th>
<th>Keyword Match Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Epidemiologic Survey on Alcohol and Related Conditions</td>
<td>Longitudinal</td>
<td>Health status, risk behaviors, outcomes</td>
<td>Were you EVER a refugee—that is, did you flee from your home to a foreign country or place to escape danger or persecution? How old were you the FIRST time this happened? How long were you a refugee? What is your country of origin or heritage? Were you born in the United States? How many years have you lived in the United States?</td>
</tr>
<tr>
<td>New Immigrant Survey</td>
<td>Longitudinal</td>
<td>Health care access, use, costs Social determinants of health Health status, risk behaviors, outcomes</td>
<td>In what country were you born? What is your country of citizenship? In what month and year did you arrive in the country in which you now live? (follow-up questions detail migration history) Temporary visa categories: refugees, asylees, parolees</td>
</tr>
</tbody>
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