Primary* Refugee Arrivals to MN by Region of World 1979-2011

Number of arrivals

- Southeast Asia
- Sub-Saharan Africa
- Former Soviet Union
- Eastern Europe
- Middle East/North Africa
- Other

Refugee Health Program, Minnesota Department of Health

*First resettled in Minnesota
Primary Refugee Arrivals, Minnesota 2011

N=1,891

“Other” includes Afghanistan, Belarus, Burundi, Cameroon, China, Cuba, DR Congo, the Gambia, Guinea, Haiti, Iran, Kenya, Kyrgyzstan, Mexico, Moldova, Philippines, Russia, Sudan, Tanzania, Uganda, Ukraine, and Zimbabwe

Refugee Health Program, Minnesota Department of Health
Primary Refugee Arrivals Screened
Minnesota, 2002-2011*

*Ineligible if moved out of state or to an unknown destination, unable to locate or died before screening

Refugee Health Program, Minnesota Department of Health
Primary Refugees Lost to Follow-up
Minnesota, 2011

Unable to Locate, Incorrect Address*  55%
Moved Out of State*  29%
Contact Failed  6%
Missed Appointment  5%
Screened Elsewhere, No Results  5%

*N=62

*Ineligible for the refugee health assessment

Refugee Health Program, Minnesota Department of Health
## Primary Refugee Screenings by Region of Origin, Minnesota, 2011

<table>
<thead>
<tr>
<th>World Region</th>
<th>Total arrivals</th>
<th>Ineligible for Screening</th>
<th>Number Screened (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE Asia/E Asia</td>
<td>1,250</td>
<td>14</td>
<td>1,235 (99)</td>
</tr>
<tr>
<td>Sub-Saharan Africa</td>
<td>533</td>
<td>36</td>
<td>493 (99)</td>
</tr>
<tr>
<td>North Africa/ Middle East</td>
<td>48</td>
<td>0</td>
<td>48 (100)</td>
</tr>
<tr>
<td>Eastern Europe</td>
<td>41</td>
<td>0</td>
<td>41 (100)</td>
</tr>
<tr>
<td>Latin America/ Caribbean</td>
<td>19</td>
<td>2</td>
<td>12 (71)</td>
</tr>
</tbody>
</table>

*Percent screened among the eligible
Refugee Screening Rates by Exam Type
Minnesota, 2011

Health Screening Rate: 99% (1,829/1,839)

Tuberculosis (TB): 98% (1,799/1,829)

Hepatitis B: 99% (1,813/1,829)

Intestinal Parasites: 99% (1,806/1,829)

Lead (<17 yrs old): 97% (745/769)

STIs*: 96% (1,765/1,829)

Malaria: 7% (132/1,829)

*Screened for at least one type of STI

Refugee Health Program, Minnesota Department of Health
### Health Status of New Refugees, Minnesota, 2011

<table>
<thead>
<tr>
<th>Health status upon arrival infection</th>
<th>No of refugees screened</th>
<th>No(%) with among screened</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB (latent or active)**</td>
<td>1,799 (98%)</td>
<td>391 (22%)</td>
</tr>
<tr>
<td>Hepatitis B infection***</td>
<td>1,813 (99%)</td>
<td>137 (8%)</td>
</tr>
<tr>
<td>Parasitic Infection****</td>
<td>1,806 (99%)</td>
<td>383 (21%)</td>
</tr>
<tr>
<td>Sexually Transmitted</td>
<td>1,765 (96%)</td>
<td>16 (1%)</td>
</tr>
<tr>
<td>Malaria Infection</td>
<td>132 (7%)</td>
<td>3 (2%)</td>
</tr>
<tr>
<td>Lead******</td>
<td>745 (97%)</td>
<td>17 (2%)</td>
</tr>
<tr>
<td>Hemoglobin</td>
<td>1,804 (99%)</td>
<td>350 (19%)</td>
</tr>
</tbody>
</table>

Total screened:  N=1,829 (99.5% of 1,839 eligible refugees)

* For refugees arriving into the US from 1/1/2011 through 12/31/2011

** Persons with LTBI (>= 10mm induration or IGRA+, normal CXR) or suspect/active TB disease

*** Positive for Hepatitis B surface antigen (HBsAg)

**** Positive for at least one intestinal parasite infection

***** Positive for at least one STI (tested for syphilis, HIV, chlamydia or gonorrhea)

****** Children <17 years old (N=769 screened)
Tuberculosis (Latent or Active) Infection* Among Refugees By Region Of Origin, Minnesota, 2011

N=1,799 screened

Overall TB Infection: 22% (391/1,799)
Sub-Saharan Africa: 36% (172/480)
SE/East Asia: 17% (206/1,220)
Latin America/Caribbean: 17% (2/12)
North Africa/Middle East: 10% (5/48)
Europe: 15% (6/39)

*Diagnosis of Latent TB infection (N=383) or Suspect/Active TB disease (N=8)

Refugee Health Program, Minnesota Department of Health
Hepatitis B infection Among Refugees by Region of Origin, Minnesota, 2011

N=1,813 screened

Overall Hepatitis B Infection Rate
- 8% 137/1,813

Sub-Saharan Africa
- 7% 34/484

SE/East Asia
- 8% 103/1,230

Latin America/Caribbean
- 0% 0/12

North Africa/Middle East
- 0% 0/48

Europe
- 0% 0/39

Refugee Health Program, Minnesota Department of Health
Intestinal Parasitic Infection* Among Refugees by Region of Origin, Minnesota, 2011

*At least one stool parasite found (including nonpathogenic)

Refugee Health Program, Minnesota Department of Health

Overall Parasitic Infection Rate

- **Europe**: 14% (5/36)
- **North Africa/Middle East**: 16% (7/45)
- **Latin America/Caribbean**: 8% (1/12)
- **Sub-Saharan Africa**: 14% (68/482)
- **SE/East Asia**: 25% (302/1,231)
- **Overall Parasitic Infection Rate**: 21% (383/1,807)

N=1,806 screened

*At least one type of pathogenic intestinal parasite