Imported Communicable Diseases of Refugees

TB/Refugee Nurse Training
November, 2013
Margaret Tipple, MD

Outline

• Locations of displaced populations 2012-2013
• Refugee camps vs. non-camp environments
• Refugee arrivals in Virginia 2012-2013
  – By health district
  – By country of origin
• Health risks by geographic region
• Medical screening, Virginia 2012-2013

Objectives

• Recognize communicable diseases identified in medical screening of newcomers that are reportable under Virginia public health statute and regulations. Know how to submit reports for the reportable conditions.

• Identify the five most common medical conditions identified as a result of medical screening of newcomers in Virginia during 2012-2013.

• Know how to obtain additional information on common and rare communicable diseases of public health concern when they are identified in newcomers.
Displaced Populations vs. Resettlement in Virginia, 2012-2013


Refugee Arrivals by Health District
2012-10/30/2013

<table>
<thead>
<tr>
<th>Health District</th>
<th>Arrivals</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAIRFAX</td>
<td>416</td>
<td>20</td>
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<tr>
<td>CENTRAL SHEN.</td>
<td>174</td>
<td>16</td>
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<tr>
<td>T. JEFFERSON</td>
<td>168</td>
<td>19</td>
</tr>
<tr>
<td>PENINSULA</td>
<td>154</td>
<td>18</td>
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<tr>
<td>HENRICO</td>
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<tr>
<td>ALEXANDRIA</td>
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<td></td>
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<tr>
<td>RAPPAHANNOCK</td>
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<td></td>
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<tr>
<td>PRINCE WILLIAM</td>
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<td></td>
</tr>
<tr>
<td>ROANOKE CITY</td>
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<tr>
<td>ROANOKE</td>
<td>67</td>
<td>11</td>
</tr>
<tr>
<td>LOUDOUN</td>
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<td>15</td>
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<tr>
<td>TOTAL ARRIVALS</td>
<td>3137</td>
<td>67</td>
</tr>
</tbody>
</table>

Distribution of Refugees from 67 Countries of Origin to Health Districts, 2012-10/30/2013

<table>
<thead>
<tr>
<th>Country</th>
<th>No. Districts</th>
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<tbody>
<tr>
<td>IRAQ</td>
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<tr>
<td>IRAN</td>
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<tr>
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<td>13</td>
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<tr>
<td>NEPAL</td>
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<td>MYANMAR</td>
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<td>AFGHANISTAN</td>
<td>10</td>
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<tr>
<td>SUDAN</td>
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</tr>
<tr>
<td>BHUTAN</td>
<td>9</td>
</tr>
<tr>
<td>EGYPT</td>
<td>8</td>
</tr>
<tr>
<td>JORDAN</td>
<td>8</td>
</tr>
<tr>
<td>ERIPIAE</td>
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<td>PAKISTAN</td>
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<tr>
<td>SOMALIA</td>
<td>7</td>
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<tr>
<td>THAILAND</td>
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<tr>
<td>IRAQ</td>
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<td>THAILAND</td>
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</tbody>
</table>

Additional 37 countries with refugees arriving in 3, 2 or 1 health districts
Health Risks: Refugees from East Africa

- Malnutrition
- Intestinal parasites (Enterobius, Trichuris, Strongyloides, and Ascaris)
- Filariasis
- Leishmaniasis
- Hepatitis B
- Tuberculosis
- Low immunization rates
- Dental caries
- Typhoid fever
- Malaria
- Trachoma
- Syphilis
- Dengue fever
- HIV infection
- Diarrheal illnesses
- Hansen’s disease

Health Risks: Refugees from Latin America*

- Malaria
- Intestinal parasites (helminthic, amebiasis, giardiasis)
- Hepatitis B
- Low immunization rate (risk for measles, mumps, rubella, diphtheria, pertussis, tetanus)
- Chagas disease (trypanosomiasis)
- Filariasis, Leishmaniasis, onchocerciasis, lymphatic filariasis, cysticercosis, schistosomiasis, echinococcosis
- Typhoid fever
- STDs, including HIV

* Exception = Cuba: primary risks are malnutrition, tuberculosis, and dengue fever

Health Risks: Refugees from the Middle East

- Thalassemia
- Schistosomiasis
- Parasites (hookworm, amoebae, echinococcosis)
- Leprosy
- Tuberculosis
- PTSD
Health Risks: Refugees from Asia

- Nutritional deficits
- Hepatitis B
- Tuberculosis
- Parasites (roundworm, hookworm, filaria, flukes, amoeba, giardia)
- Malaria
- HIV
- Hansen’s disease
- PTSD

Source: Texas Department of Health/Baylor University
[https://bearspace.baylor.edu/Charles_Kemp/www/refugee_health_problems.htm](https://bearspace.baylor.edu/Charles_Kemp/www/refugee_health_problems.htm)

Health Risks: Refugees from Eastern Europe or Russia

- Nutritional deficits
- Hepatitis B
- Tuberculosis
- PTSD (Bosnia)

Source: Texas Department of Health/Baylor University
[https://bearspace.baylor.edu/Charles_Kemp/www/refugee_health_problems.htm](https://bearspace.baylor.edu/Charles_Kemp/www/refugee_health_problems.htm)

Health Risks: Global

- Malnutrition
- Intestinal parasites (amebiasis, giardiasis, ascariasis, strongyloidiasis, hookworm, trichuriasis, enterobiasis)
- Hepatitis B
- Tuberculosis
- Low immunization rates (risk for measles, mumps, rubella, diphtheria, pertussis, tetanus)
- Dental caries
- Malaria
- Syphilis, other STDs, including HIV infection
- Diarrheal illnesses
- Long-term effects of trauma, rape, torture (PTSD)
- Neonatal tetanus
- Rheumatic heart disease
- Among children, high lead levels

Source: Texas Department of Health/Baylor University
[https://bearspace.baylor.edu/Charles_Kemp/www/refugee_health_problems.htm](https://bearspace.baylor.edu/Charles_Kemp/www/refugee_health_problems.htm)
Infectious Diseases Identified During Health Screening, Virginia, 2012-2013

- Tuberculosis
- Hepatitis B
- Hepatitis C
- RPR positive
- HIV positive
- Other
- Incomplete/undocumented immunizations

In the News.....

- Hansen Disease
  - Northeast India – increased rates
  - Long incubation, delayed diagnosis
  - Treatable (HRSA – National Hansen Disease Program)
- Polio (and other vaccine preventable diseases)
  - Increases in Syria, Jordan, Lebanon, Israel, Egypt
  - Endemic in Afghanistan, Pakistan, Nigeria
  - Disruption in child immunization programs
  - WHO attempting to intervene
- Malaria
  - Endemic areas - Central/South America, Africa, South Asia
  - Limited prevention measures
  - Delayed diagnosis
  - Drug resistance
Objectives

- Recognize communicable diseases identified in medical screening of newcomers that are reportable under Virginia public health statute and regulations. Know how to submit reports for the reportable conditions.
  - Tuberculosis, Hepatitis B, Hepatitis C, Positive RPR, HIV
  - Others from VA Reportable Disease List
- Identify the five most common medical conditions identified as a result of medical screening of newcomers in Virginia during 2012-2013.
  - Dental conditions, Non-infectious diseases (hypertension, elevated cholesterol), diabetes
  - TB, Hepatitis B, Hepatitis C
- Know how to obtain additional information on common and rare communicable diseases of public health concern when they are identified in newcomers.
  - Refer to handouts for references and websites

Thank you.

Questions?

Call Jill
Call me