Extreme Weather or Adverse Environmental Events
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Care Management Outreach using data analytics to identify patients at risk

To help reach patients that are vulnerable during extreme weather and adverse environmental events, the ECMC team created the Patients at Risk During Extreme Weather Events CPH dashboard in 2021. The intended use of this data is to support outreach efforts connecting patients to resources when they are impacted by extreme weather events such as wildfires, earthquakes, tornadoes, tsunami, and power outages.

The dashboard uses specific risk factors to identify patients at greatest risk and allows our caregivers to outreach and connect them with available resources.

Outreach Opportunities:

- Connection to resources for evacuation assistance, shelter, food, water, etc.
- Education, financial assistance, or other support for patients at risk due to increased air pollution or decreased air quality (i.e., patients with COPD, asthma, etc.)
- Food assistance for children when schools close due to extreme weather events
- Connection to financial assistance, grants, or equipment allocations
- Help securing medication or medical supplies and equipment (i.e., oxygen, dialysis, feeding pumps, ventilators, etc.)

Resource Connections Examples:

<table>
<thead>
<tr>
<th>Event</th>
<th>Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extreme Heat</td>
<td>Availability of cooling stations, allocation of cooling equipment</td>
</tr>
<tr>
<td>Extreme Cold</td>
<td>Availability of warming centers, allocation of heating equipment</td>
</tr>
<tr>
<td>Wildfire</td>
<td>Evacuation assistance, risk mitigation, housing support</td>
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<tr>
<td>Drought / Potable Water</td>
<td>Connection to resources for water</td>
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<tr>
<td>Flooding</td>
<td>Connection to resources for evacuation, food, water, shelter</td>
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<tr>
<td>Decreased Air Quality</td>
<td>Education, allocation of filters / masks</td>
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<tr>
<td>Mudslide / Landslide</td>
<td>Connection to resources for evacuation, food, water, shelter</td>
</tr>
<tr>
<td>Long-Term Power Outage</td>
<td>At home medical equipment and/or medication storage, transportation</td>
</tr>
<tr>
<td>Earthquake</td>
<td>Connection to resources for evacuation, food, water, shelter</td>
</tr>
<tr>
<td>Tsunami</td>
<td>Connection to resources for evacuation, food, water, shelter</td>
</tr>
<tr>
<td>Tornado</td>
<td>Connection to resources for evacuation, food, water, shelter</td>
</tr>
</tbody>
</table>
Dashboard and Risk Factors:
The risk factors used to identify priority populations were created by leveraging reference material from the Oregon Health Authority’s criteria of individuals considered ‘at risk’. A variety of filters are available to help sort specific subsets of patients by region, zip code, demographic, or diagnosis.

Additional background on how this dashboard was created is highlighted in the recent Providence Environmental Stewardship Report.

The Patients at Risk During Extreme Weather Events dashboard contains PHI and has restricted access. If you have questions or would like access to the dashboard, email cph@providence.org.