Flooding and Extreme Storms Resource Sheet

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This document contains hyperlinks to online and downloadable resources. If you discover any broken links, please contact the authors at climateandhealth@sfdph.org.

This resource sheet is intended to be a living document. If there are additional services or resources you think should be included, please contact the authors at climateandhealth@sfdph.org.
EMERGENCY SERVICES

911
Description: 9-1-1 is the City emergency hotline for Police, Fire, and Ambulance services.
Contact Information:
Phone: 9-1-1

HEALTH SERVICES

Pediatric Asthma and Allergy Clinic
San Francisco Health Network’s Chest Clinic
San Franciscans with unmanaged or undermanaged respiratory health conditions can be referred to the San Francisco Health Network’s chest clinic. The chest clinic services include pulmonary evaluation, disease management, patient education, and referral to resources that provide home visits and legal aid. The Pediatric Asthma and Allergy Clinic provides similar resources, and is open to referrals through the eConsult Rubicon Link.
Contact Information:
Phone: (415) 206-8494
Website: https://www.sfhealthnetwork.org/need-to-visit-a-specialist-doctor/pulmonary/

Children’s Environmental Health Promotion program, San Francisco Department of Public Health
SFDPH's Children’s Environmental Health Promotion (CEHP) program promotes conditions optimal for children’s health and development. Services include environmental assessment in homes of asthma patients referred by their health care providers, education, and supplies for environmental risk factor control.
Contact Information:
Website: https://www.sfdph.org/dph/EH/CEHP/default.asp
### Programs and Services

#### INFORMATION SERVICES

<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
<th>Contact Information</th>
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</thead>
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| **311**          | 3-1-1 is the City non-emergency hotline for San Francisco residents, visitors, and businesses seeking general information or to make service requests. | Phone: 3-1-1  
Website: [https://sf311.org/](https://sf311.org/) |
| **SF72**         | SF72 is operated by the San Francisco Department of Emergency Management and acts as the City's emergency information portal. This site contains guidance on how to develop an emergency preparedness plan, where to go for emergency updates, and how to connect to the City's emergency resources. | Website: [www.sf72.org](http://www.sf72.org)  
Twitter: @SF72org, @SF_emergency |
| **AlertSF Text Service** | AlertSF is a text-based notification system for San Francisco's residents and visitors. AlertSF will send text alerts and information before, during, and after emergencies to registered wireless devices or email accounts. | Patients should be encouraged to sign up for AlertSF at: [https://member.everbridge.net/index/453003085612609#login](https://member.everbridge.net/index/453003085612609#login)  
Patients can also sign up for Alert SF by texting 'AlertSF' to 888-777 |
### Programs and Services

#### Other Local and National Preparedness and Resilience Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Contact Information</th>
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</thead>
<tbody>
<tr>
<td><strong>RainReadySF, San Francisco Public Utilities Commission</strong></td>
<td>Website: <a href="http://www.sfwater.org/rainreadysf">www.sfwater.org/rainreadysf</a></td>
</tr>
<tr>
<td><strong>Sand Bags Distribution, Department of Public Works</strong></td>
<td>Website: <a href="https://sfpublicworks.org/sandbags">https://sfpublicworks.org/sandbags</a></td>
</tr>
<tr>
<td><strong>FEMA National Flood Insurance Program</strong></td>
<td>Website: <a href="https://www.fema.gov/national-flood-insurance-program">https://www.fema.gov/national-flood-insurance-program</a></td>
</tr>
<tr>
<td><strong>Department of Aging and Adult Services</strong></td>
<td>Phone: (415) 557-5000 Website: <a href="https://www.sfhsa.org/about/departments/department-aging-and-adult-services-daas">https://www.sfhsa.org/about/departments/department-aging-and-adult-services-daas</a></td>
</tr>
<tr>
<td><strong>San Francisco Mayor's Office on Disability</strong></td>
<td>Phone: (415) 554-6789 Website: <a href="https://sfgov.org/mod">https://sfgov.org/mod</a></td>
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<tr>
<td><strong>Neighborhood Empowerment Network (NEN)</strong></td>
<td>Phone: (415) 554-7114 Website: <a href="http://www.empowersf.org">http://www.empowersf.org</a></td>
</tr>
<tr>
<td><strong>Low Income Weatherization Program (LiWP)</strong></td>
<td>For low income patients in single family or mobile homes, LiWP will help homeowners and renters lower their monthly utility bills. This program is funded by the California Climate Investments Initiative. The local administrator for LiWP is Build It Green. Contact Information: Website: <a href="https://betterhomeliwp.org">https://betterhomeliwp.org</a></td>
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**Flooding and Extreme Storms Resource Sheet**

San Francisco Department of Public Health – Climate and Health Program
Online and Downloadable Resources

RESOURCE TYPE GLOSSARY

**Issue Summary Document**
Issue Summary Documents provide a high-level, comprehensive overview of the particular issue. An Issue Summary Document is as an informational resource to facilitate the development of informed resilience and preparedness strategies.

**Guidance Document**
Guidance Documents are explanatory manuals to instruct users how to implement resilience and preparedness strategies. These resources include checklists and toolkits.

**Outreach and Engagement**
Outreach and Engagement materials are short documents that graphically and concisely convey information for the purpose of educating patients. These resources include posters, infographics, and other media.

**News Article**
News Articles are resources that summarize current events and synthesize relevant research.

**Research**
Research resources include academic journals, City-developed plans and reports, and other evidenced-based documents.
Online and Downloadable Resources

RESOURCES TO UNDERSTAND THE CONNECTION BETWEEN CLIMATE CHANGE AND PUBLIC HEALTH

Issue Summary Document, PDF
Center for Climate Change and Public Health, Rainfall & Storms, Climate Change and Health

Audience: Clinicians
This Center for Climate Change and Public Health three-page issue summary document provides information on: 1) how climate change will increase extreme precipitation events, 2) the health impacts of flooding and extreme storms, 3) populations most vulnerable to extreme storm events and, 4) best practices for clinicians.


Issue Summary Document
BARHII, Climate Change Quick Guides

Audience: Clinicians, Patients
These five short guides explore public health as an equity issue and examine the environmental and health co-benefits of climate change action.

Hyperlink: http://barhii.org/resources/climate-change-quick-guides

Outreach and Engagement
Center for Climate Change and Health, Climate and Health Posters

Audience: Patients
These 18 x 24 posters were developed by the Center for Climate Change and Health to help make the connections between climate change and public health. Relevant posters include ‘Climate Change, Asthma, & You’.

Hyperlink: https://nca2018.globalchange.gov/chapter/13/

Research
U.S. Global Change Research Program, 2018 Climate and Health Assessment: Human Health

Audience: Clinicians, Patients
The 2018 National Climate Assessment chapter assesses how climate change will modify health outcomes, identifies vulnerable populations, and inventories adaptation and mitigation strategies to reduce exposure.

Hyperlink: https://nca2018.globalchange.gov/chapter/14/

Research
Journal of Environmental and Public Health, Health Effects of Coastal Storms and Flooding in Urban Areas: A Review and Vulnerability Assessment

Audience: Clinicians
This 2013 literature review from the New York City Department of Health and Mental Hygiene compiles information about the health impacts of extreme precipitation in urban areas, including examinations of the health impacts of Hurricane Sandy and Hurricane Katrina.

Hyperlink: https://www.hindawi.com/journals/jeph/2013/913064/
Online and Downloadable Resources

RESOURCES TO UNDERSTAND AND IDENTIFY THE HEALTH IMPACTS OF FLOODING AND EXTREME STORMS

Outreach and Engagement, PDF

SFDPH Climate and Health Program, Health Impacts of Climate Change: Mold Respiratory Illness and How to Protect Yourself

**Audience:** Patients

This online resource examines how flooding and extreme storms impact public health, outlines the health impacts of mold exposure, and links to local mold and asthma resources.

**Hyperlink:**

Issue Summary Document

CDC, Facts about Mold and Dampness

**Audience:** Clinicians, Patients

This CDC fact sheet examines how exposure to mold and in-home dampness can impact public health and identifies best practices to identify and control mold.

**Hyperlink:**
https://www.cdc.gov/mold/dampness_facts.htm

Research

Environmental Health Perspectives, Health Impacts of Citywide and Localized Power Outages in New York City

**Audience:** Clinicians

This 2018 study examines the relationship between localized power outages, weather, and hospitalizations in New York City. The investigation concluded that localized power outages are linked to increases in all-cause mortality. Warm weather power outages were associated with renal disease hospitalizations and cold weather power outages were associated with cardiovascular disease hospitalizations. Researcher hypothesized that the increase in cardiovascular disease hospitalizations could be related to increased physical activity due to transportation disruption and stress.

**Hyperlink:**
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6084843/

Research

Public Library of Science, The Effects of Flooding on Mental Health: Outcomes and Recommendations from a Review of the Literature

**Audience:** Clinicians

This literature review assessed evidence and guidance on the link between flood events and psychosocial and mental health needs.

**Hyperlink:**
Online and Downloadable Resources

RESOURCES TO IDENTIFY POPULATIONS VULNERABLE TO FLOODING AND EXTREME STORMS

Research, PDF

SFPD Climate and Health Program, Flood Health Vulnerability Assessment

**Audience:** Clinicians, Patients

This 2016 vulnerability assessment uses exposure, vulnerable population, health, and infrastructure data to assess which San Francisco neighborhoods are most vulnerable to the health impacts of flooding and extreme storms.

**Hyperlink:**

Outreach and Engagement

SFPD Climate and Health Program, Flood Health Interactive Vulnerability Story Map

**Audience:** Clinicians, Patients

This interactive story map helps users understand 1) how exposure, living conditions, health conditions, and social factors contribute to vulnerability to flooding and extreme storms and; 2) the spatial distribution of these vulnerable populations.

**Hyperlink:**
http://sfgov.maps.arcgis.com/apps/MapJournal/index.html?appid=69004eefbb3f4a27aa8b6c6566f8dc0b

Outreach and Engagement

CDC, Information for Specific Groups

**Audience:** Clinicians, Patients

This collection of emergency preparedness materials provides targeted information for older adults, expectant and new parents, evacuees, children, people with chronic illnesses, people with disabilities, people experiencing homelessness, and tribal communities.

**Hyperlink:**
https://emergency.cdc.gov/groups.asp
Online and Downloadable Resources

RESOURCES TO DEVELOP A FLOODING AND EXTREME STORM PREPAREDNESS PLAN

**Guidance Document**

**SF72 Emergency Plan Checklists**

**Audience:** Patients

From the San Francisco Department of Emergency Management, this site links to downloadable multilingual emergency planning checklists.

Hyperlink: https://www.sf72.org/plan

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**Guidance Documents**

**SFDPH Climate and Health Program, Flood and Extreme Storm Training Presentation**

**Audience:** Clinicians, Patients

The "Preparing for Rain and Flooding in San Francisco" presentation examines the pathways that connect sea level rise and extreme storms to public health, and identifies simple steps for San Franciscans to prepare for these health impacts. The presentation comes with a slide deck and companion presenter notes.


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**Outreach and Engagement**

**CDC, Plan Ahead Emergency Action Plan Guidance**

**Audience:** Patients

This CDC resource provides guidance on how to stay health, stay informed, and stay in contact to stay safe during emergencies. This resource also provides contact information to emergency helplines.

Hyperlink: https://www.cdc.gov/cpr/prepareyourhealth/PlanAhead.htm

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**Outreach and Engagement**

**CDC, Key Facts About Flood Readiness**

**Audience:** Patients

This website identifies best practices to prepare for a storm, and includes the infographic: Be Ready! Floods. https://www.cdc.gov/phpr/infographics/br-floods.htm

Hyperlink: https://www.cdc.gov/disasters/floods/readiness.html

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**Outreach and Engagement**

**Ready.Gov Power Outage Preparedness Resource**

**Audience:** Patients

This FEMA poster identifies best practices to protect yourself during a power outage, and includes information on how to avoid carbon monoxide poisoning, food poisoning, and electrical surges.

Hyperlink: https://www.ready.gov/power-outages
Online and Downloadable Resources

RESOURCES TO PREPARE HOMES AGAINST FLOODING AND IN-HOME DAMPNESS

Guidance Document
SF Department of Environment, Toxics and Health

**Audience:** Clinicians, Patients

This Department of Environment resource is an inventory of guidance documents on how to replace and safely dispose of household toxics.

**Hyperlink:**
https://sfenvironment.org/toxics-health

Guidance Document
SFDPH Children’s Environmental Health Promotion, “Make A Healthy Home For Your Child” Video

**Audience:** Patients

This video identifies best practices to protect your home against flooding and in-home dampness.

**Hyperlink:**
https://www.youtube.com/watch?v=7A56JwN4cao

Online and Downloadable Resources

RESOURCES TO COMMUNICATE CLIMATE PREPAREDNESS

Issue Summary Document, PDF
Center for Climate Change and Health, A Physician’s Guide to Climate Change, Health, and Equity

**Audience:** Clinicians

This comprehensive resource explores the connection between climate change and public health, and opportunities for physicians to strengthen their voice as climate advocates.

**Hyperlink:**

Guidance Document, PDF
Let’s Talk Health and Climate: Communication Guidance for Health Professionals

**Audience:** Clinicians

This guidance document, developed by ecoAmerica and Climate for Health, synthesizes academic research to provide message tested phrases and talking points to advance climate health communications.

**Hyperlink:**
SFDPH Children’s Environmental Health Promotion, Take Action Against Mold Information Sheet

**Audience:** Patients

This SFDPH Environmental Health guidance document identifies best practices to prevent household condensation, dampness, and mold.

**Hyperlink:**

SFDPH Climate and Health Program, Mold Health Guidance Document

**Audience:** Patients

This SFDPH resource inventories best practices, programs, and other resources to help residents safely identify and remediate mold, and identify mold-related illnesses.

**Hyperlink:**

California Department of Consumer Affairs, California Tenants: A Guide to Resident Tenants’ and Landlords’ Rights and Responsibilities

**Audience:** Patients

The “California Tenants” booklet is a practical resource for both tenants and landlords. The guide provides information about rental applications, unlawful discrimination, security deposits, repair responsibilities, rent increases, termination of leases, and eviction notices.

**Hyperlink:**

CDC, 8 Tips to Clean Up Mold Infographic

**Audience:** Patients

This infographic is available in eight different languages and provides best practices to identify and remediate mold.

**Hyperlink:**
[https://www.cdc.gov/cpr/infographics/8tipstocleanupmold.htm](https://www.cdc.gov/cpr/infographics/8tipstocleanupmold.htm)