

Center for Climate, Health and Equity



Mental health impacts and resilience to wildfires and other disasters

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(UC Center for Climate, Health & Equity, Directors Sheri Weiser, MD, Arianne Tehrani, PhD)

Climate extremes **AMPLIFY** the Mental Health (MH) burden



Only ~10 MH workers per 100K population



1 billion living with MH disorders worldwide



\$1 trillion annual cost of MH disorders



< 2% of govt. budgets spent on MH!

World Health Organization

Climate extremes **AMPLIFY** the Mental Health burden



World Health Organization

Mental & Physical Health impacts of wildfire smoke



Acute respiratory infection (bronchitis,

Psychological and Behavioral Responses to Acute Disasters



(Morgenstein & Ursano 2020)

"Fire Brain": Impact on cognition and brain function (Camp Fire, California's deadliest wildfire)



~35% prevalence of Climate Trauma

= PTSD, Depression, Anxiety





Grennan et al., PLOS Climate 2023, PI Jyoti Mishra

Psychological First Aid (for acute crises)

The Core Four for emotion regulation

Calming, safety and comfort

2 Emotional support

3 Active Listening, mindfulness

Helping Avoid triggers, limit news (no more than 10 min of SM, 2x a day).

4 **Practical Support**

Youth are at elevated risk for climate related mental health disorders



27% of young adults experience high anxiety, 3 times more than older adults (CDC, 2024)

Globally, 59% of young adults very/extremely worried about climate change. (Hickman et al, Lancet, 2021)



Addressing Climate Anxiety in Youth & Building Community Resilience





Preprints with THE LANCET

Outcomes of a Novel Experiential Psychosocial Climate Resilience Course for Young Adults

15 Pages · Posted: 7 Nov 2024

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More...

https://www.climateresilience.online/

Resilience Coordinating Networks can engage residents to build population-level resilience

1) Build robust **social support networks** -> mutual aid networks

2) Become "**trauma and resilience-informed**" (understand effects of toxic stresses and traumas, and practices for emotion regulation)

3) Establish culturally-appropriate **healing opportunities** and wellness practices such as healthy diet

4) Engage residents in building **safe, healthy, zero emission and climate resilient physical** (e.g. housing, transportation, open space), and **economic** (local low-emission businesses)

Resources:

UC's Center for Climate & Health: Wildfire webinars & Climate Resilience Class

WWW.ClimateResilience.Online

Resilience Network examples (Dr. Bob Doppelt):

https://itrcoalition.org/policy-work/