



Severe Weather Preparedness in the ASC

Justin Routman MD MSHA | May 2, 2024

1

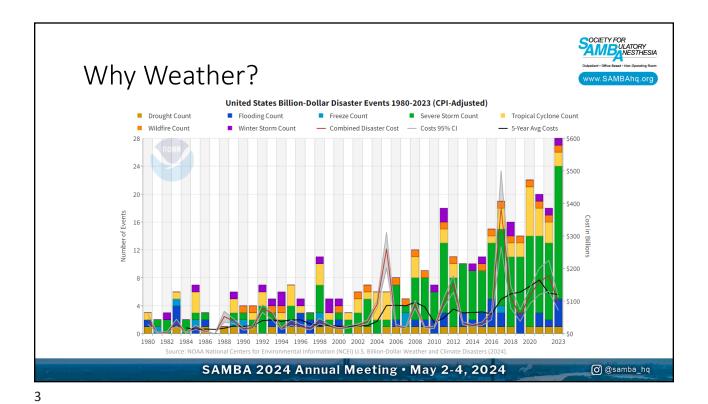
Disclosures



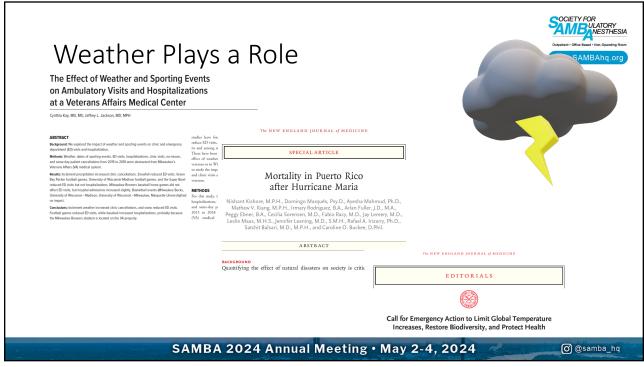
• I have no financial interests or conflicts to disclose.

SAMBA 2024 Annual Meeting • May 2-4, 2024





Billion-dollar events to affect the United States from 1980 to 2023 (CPI-Adjusted) ILATORY NESTHESIA Breakdown of recorded economic damage (US\$) by disaster type (1995-2015) Drought \$352.9B 31 8.2% 13.3% BAhq.org Flooding \$196.6B 7.4% \$36.4B 0.2 2.4% 1.4% \$455.2B 17.1% Tropical Cyclone 62 \$1,379.3B 51.8% Wildfire \$142.4B 22 3.7% 0.5 25% All Disasters 376 \$2,661.1B 100.0% 1,011 billion 662 billion ental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2024) 870 billion Storm (Katrina) 2005 United States 163.61 Storm (Harvey 2017 United States 96.94 46% Storm (Maria) 2017 United States 69.39 Absolute los (1994-2015) Storm (Irma) 2017 United States 58.16 Americas
Asia
Europe
Oceania
Africa Storm (Sandy) 2012 United States 54.47 Storm (Andrew 1992 United States 48.27 1998 China 47.02 Flood 2011 Thailand 45.46 262 billion 2008 United States 35.63 SAMBA 2024 Annual Meeting • May 2-4, 2024 (i) @samba_hq



Weather Plays a Role

The Effect of Weather and Sporting Events on Ambulatory Visits and Hospitalizations at a Veterans Affairs Medical Center

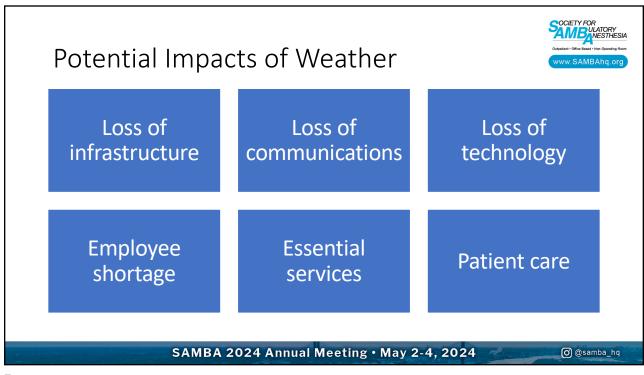
General Sporting Events (as St. Met. Little); Loon Met. Met.

Margareth Royal Sporting Sporting Sporting Events (as St. Met. Little); Loon Met. Met.

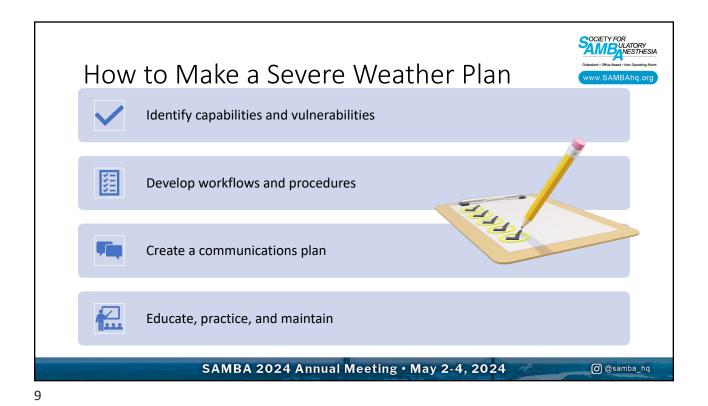
Margareth Royal Sporting Sporting Sporting Events (as St. Met. Little); Loon Met. Met.

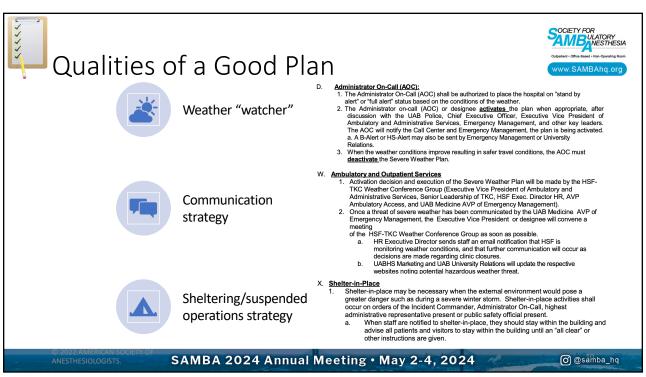
Margareth Royal Sporting S

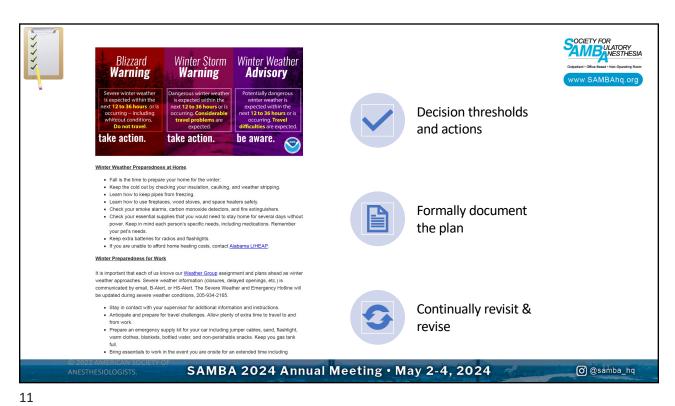
_

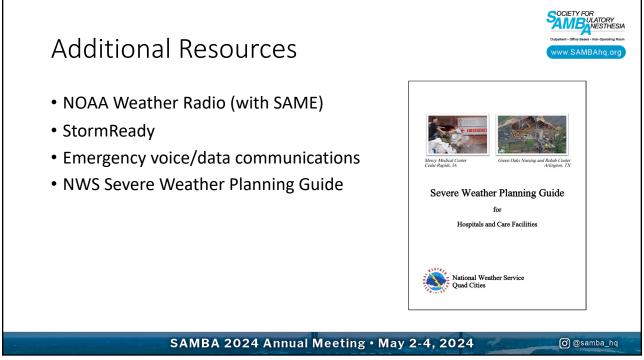


CMS' Opinion Four Core Elements of Emergency Preparedness Risk Assessment and Emergency Planning (Include but not limited to): Hazards likely in geographic area o Care-related emergencies Equipment and Power failures o Interruption in Communications, including cyber attacks Loss of all/portion of supplies o Plan is to be reviewed and updated at least annually · Communication Plan o Complies with Federal and State laws System to Contact Staff, including patients' physicians, other necessary persons $\circ~$ Well-coordinated within the facility, across health care providers, and with state and local public health departments and emergency management agencies. Policies and Procedures o Complies with Federal and State laws Complies with Federal and State laws SAMBA 2024 Annual Meeting • May 2-4, 2024 (c) @samba_hq









Summary



Severe weather is a significant threat

All impacts of severe weather are a detriment to patient care

That's probably why CMS requires us to be prepared

Plans should identify capabilities and vulnerabilities as well as developing workflows, procedures, and communications strategies

Simple is better

Train hard, practice often, and update/maintain accordingly

SAMBA 2024 Annual Meeting • May 2-4, 2024



13



The only thing harder than preparing for an emergency is explaining why you did not



References



- 81 FR 63859. Federal Register, CMS/HHS, 63859-64044, Vol 81, No 180, Sept 16, 2016.
- CMS.gov
- Atwoli L, Baqui AH, Benfield T, et al. Call for Emergency Action to Limit Global Temperature Increases, Restore Biodiversity, and Protect Health. N Engl J Med. 2021;385(12):1134-1137.
- Bittle J. Hurricane Ian was a Powerful Storm. Real Estate Developers Made It a Catastrophe, [Internet]. Grist. 30 Sept 2022 [cited 2022 Oct 5]; Available from: https://grist.org/extreme-weather/hurricane-ian-real-estate-developers-canals-cape-coral/
- Kay C, Jackson JL. The Effect of Weather and Sporting Events on Ambulatory Visits and Hospitalizations at a Veterans Affairs Medical Center. WMJ. 2022;121(2):164-166.
- Kishore N, Marqués D, Mahmud A, et al. Mortality in Puerto Rico after Hurricane Maria. N Engl J Med. 2018;379(2):162-170.
- NOAA National Centers for Environmental Information (NCEI) U.S. Billion-Dollar Weather and Climate Disasters (2022).
- Saint-Preux, S, How to Solve the Top 5 Weather Challenges for Healthcare Facilities. [Internet]. Healthcare Business Today. Aug 2022 [cited 2022 Sept 15]; Available from: https://www.healthcarebusinesstoday.com/how-to-solve-the-top-5-weather-challenges-for-healthcare-facilities/
- Severe Weather Planning Guide for Hospitals and Care Facilities. [Internet]. National Weather Service Quad Cities. July 2014 [cited 2022 Sept 15]; Available from: https://www.weather.gov/media/dvn/Brochures/NWSDVN_hospital_guide.pdf
- Sommer, L. Climate Change is the Greatest Threat to Public Health, Top Medical Journals Warn. [Internet]. NPR. Sept 2021 [cited 2022 Sept 15]; Available from: https://www.npr.org/2021/09/07/1034670549/climate-change-is-the-greatest-threat-to-public-health-top-medical-journals-warn
- StormReady. [Internet]. National Weather Service. nd [cited 2022 Sept 15]; Available from: https://www.weather.gov/StormReady
- The Human Cost of Weather Related Disasters 1995-2015. [Internet]. The United Nations Office for Disaster Risk Reduction. 2017 [cited 2022 Sept 15]; Available from: https://www.unisdr.org/files/46796_cop21weatherdisastersreport2015.pdf
- WMO Atlas of Mortality and Economic Losses From Weather, Climate, and Water Extremes (1970-2019). [Internet]. World Meteorological Organization. 2021 [cited 2022 Sept 15]; Available from: https://library.wmo.int/doc_num.php?explnum_id=10989

SAMBA 2024 Annual Meeting • May 2-4, 2024

