Interventional Cardiology

Cardiovascular complications after lightning strike injury

Table S1: Odds of becoming a lightning victim (based on averages for 2009-2018)							
[6].							
Odds of Becoming a Lightning Victim (based on averages for 2009-2018)							
Estimated U.S. population as of 2019				330,000,000			
Average Number of Deaths Reported 27	7	Estimated number of Injuries	243	270			
Odds of being struck in a given year (esti	uries)	1/1,222,000					
Odds of being struck in yo	1/15,300						
Odds you will be affected by someone	1/1,530						

Table S2: Lights	Table S2: Lightning deaths in the United States 2006-2023 September [3].							
Years	Female	Male	Total					
2006	10	39	49					
2007	5	42	47					
2008	6	23	29					
2009	6	29	35					
2010	7	22	29					
2011	7	19	26					
2012	3	26	29					
2013	6	17	23					
2014	5	21	26					
2015	11	17	28					
2016	9	31	40					
2017	1	15	16					
2018	4	17	21					
2019	5	16	21					
2020	4	13	17					
2021	10	1	11					
2022	4	15	19					
2023	3	10	13					

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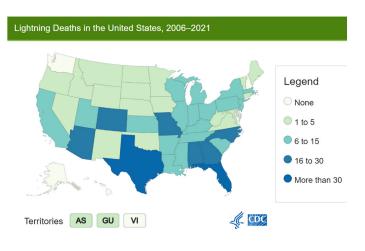
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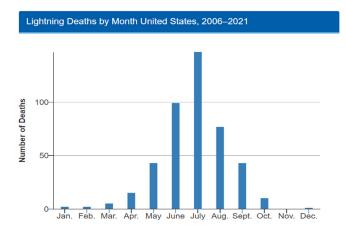
Table S3: Cardiac effects due to various types of lightning strike [18].						
Direct strike: Passage of current directly through person between head or upper body and feet	Side flash: Most frequent mechanism and occurs when person close to (but not in contact) an object through which the direct current discharges.	Ground strike or step voltage: Lightning hits the ground, discharges at the point of contact, and dissipates irregularly				
Immediate cardiac arrest due to asystole and death or hypoxia- induced ventricular fibrillation [7]	Sinus tachycardia, ventricular fibrillation	Cardiac arrhythmias like sinus tachycardia, ventricular fibrillation				
Severe biventricular failure or pericardial effusions	Myocardial injury 66% [8]	Myocardial injury 12% [8]				
Myocardial injury reported in 75% of victims [8]	ECG: Nonspecific ST-T wave changes like ST segment depression and T wave inversion [8]	ECG: Nonspecific ST-T wave changes [8]				
Note: ECG changes include QTc prolongation and ST elevation reported [8]						

Review Article



Data source: National Weather Service

Figure S1: Lightning deaths in the United States, 2006-2021.



Data source: National Weather Service

Figure S2: Lightning deaths by month United States 2006-2021.