

Preventable Harm

Calculations:

1. Base Data 2014

The estimated number of US hospital deaths associated with accidents: 400,000

The number of hospital admissions in the US: 34,878,887

The number of commercial flights in US airspace: 9,486,900

The number of airline passengers in US airspace: 848,100,000

2. Absolute number of deaths:

Passengers per U.S. flight:

848,100,000 passengers / 9,486,900 flights = 89 passengers / flight

Total flights effected:

400,000 deaths per year / 89 deaths per flight = 4,494 flights per year

Time between incidents:

365 days * 24 hours / 4,494 flights = 1.95 hours ~ 12 per day

3. Proportional number of deaths:

Deaths per hospital admission:

400,000 deaths / 34,878,887 admissions = 0.011 or 1.1%

Corresponding total airline deaths:

848,100,000 passengers * 1.1% death rate = 9,329,100 deaths

Corresponding number of fatal flights:

9,329,100 deaths / 89 passengers per flight (see above) = 104,821 flights

Time between incidents:

365 days * 24 hours * 60 minutes / 104,821 flights = ~ 5 minutes