

## Relatable risks

Event	Risk	Note	Evidence
Chance of winning 1 <sup>st</sup> Division Powerball lotto in Australia in any given draw	1 in 134 million	This is a rounded estimate based on the cited chance of 1 in 134,490,400.	1
Chance of any given pregnancy resulting in identical quadruplets	1 in 15 million	This is a crude estimate; actual risk may fall somewhere between 1 in 11 to 15 million.	2,3
Chance of being in a fatal shark attack in a year in Australia	1 in 8 million	This is a crude estimate averaged across the whole population, assuming three to four Australians die annually from shark attacks and dividing by 26 million (Australia's approximate population). Actual risk may depend on location and lifestyle.	4
Chance of dying from being struck by lightning in a year in Australia	1 in 4 million	This is a conservative estimate of the average risk of death from lightning strike, assuming 10 deaths per year and dividing by 26 million (Australia's approximate population), and going a bit lower than this to be safe, which comes to 0.25 cases per million.	5,6
Lifetime chance of dying by drowning in the bath	1 in 685,000	This is a crude estimate averaged across the whole population; actual risk may depend on age.	7, 8
Chance of dying by assault in a year in Australia	1 in 105,000	This is a rounded estimate based on the reported chance of 1 in 106,597, an average risk across the whole population.	9
Chance of any given skydive jump resulting in death	1 in 100,000	This is a crude estimate averaged across the whole population; actual risk may depend on lifestyle.	4
Chance of being killed in a car accident in a year in Australia	1 in 18,000	Estimate based on a reported 5.57 road fatalities per 100,000 registered motor vehicles, averaged across the whole population; actual risk may depend on age.	10
Lifetime chance of dying by choking on food in Australia	1 in 5000	This is a rounded estimate based on the reported chance of 1 in 5354, which is averaged across the whole population. In reality this may depend on age.	11

Chance of any given base jump resulting in death	1 in 2500	This is rounded from the crude estimate of 430 in a million, which is averaged across the whole population. Actual risk may depend on lifestyle, location and skill level.	12
Chance of being born with polydactyly (extra digits on the upper or lower limbs) in Australia	1 in 1000	This is rounded from the cited estimate of 1 in 1123, which is averaged across the whole population. Actual risk may depend on genetics.	13
Chance of being diagnosed with cancer in the next year in Australia	1 in 200	This is rounded from the cited estimate of 1 in 170, which is averaged across the whole population. Actual risk may depend on genetics and lifestyle.	14
Chance of being hospitalised from a fall in a year in Australia	1 in 100	This is rounded from the cited estimate of 920 per 100,000 population, which is averaged across the whole population. Actual risk may depend on age.	15
Chance of receiving a speeding ticket in a year in Australia	1 in 12	Estimate based on provided source estimate of 8% of Australia's population of approximately 26 million receiving a speeding fine from May 2020 to April 2021. This is equal to 1 in 12.5, which has been rounded. Chance is averaged across the whole population; actual risk may depend on age.	16
Chance of getting food poisoning in a year in Australia	1 in 6	Estimate based on 26 million (Australia's approximate population) divided by provided source estimate of 4.1 million Australians affected by food poisoning annually.	17
Lifetime chance of developing shingles	1 in 3	This is a crude estimate averaged across the whole population. Actual risk may depend on genetics.	18

## References

- Golden Casket Lottery Corporation Limited. Play Powerball – Thurs, 21 Oct 2021. *The Lott*. Accessed 17 Oct 2021. <https://www.thelott.com/powerball/play>.
- Allingham, T. (2021). 14 things more likely than winning the lottery. *Save the Student!* Accessed 16 Dec 2021. <https://www.savethestudent.org/save-money/things-more-likely-than-winning-lottery.html>.
- ABC News. (2009). Identical quadruplets born: 1 in 13 million. *ABC News*. Accessed 16 Dec 2021. <https://abcnews.go.com/GMA/Health/identical-quadruplets-born-13-million/story?id=3506690>.
- Valley, H. (2017). What's most likely to kill you? Measuring how deadly our daily activities are. *The Conversation*. Accessed 23 Nov 2021. <https://theconversation.com/whats-most-likely-to-kill-you-measuring-how-deadly-our-daily-activities-are-72505>.

- Ceranic, I. (2018). Why lightning, one of the most deadly weather phenomena, will never be seen in a forecast. *ABC News*. Accessed 17 Oct 2021. <https://www.abc.net.au/news/2018-10-18/why-lightning-is-so-difficult-to-forecast/10365414>.
- Plummer, F. (2017). Forecasters warn of lightning strike risk after tragic death. *The New Daily*. Accessed 17 Oct 2021. <https://thenewdaily.com.au/news/national/2017/11/25/lightning-storms-australia/>.
- Roper, M. (2008). Scientists calculate odd ways to die. *Mirror*. Accessed 16 Dec 2021. <https://www.mirror.co.uk/news/weird-news/scientists-calculate-odd-ways-die-282884>.
- Budnick, L.D. and Ross, D.A. (1985). Bathtub-related drownings in the United States, 1979–81. *American Journal of Public Health* 75(6):630–633. doi: 10.2105/AJPH.75.6.630.
- Australian Bureau of Statistics. (2021). Causes of death, Australia – 2020: Potentially avoidable mortality and selected external causes of death. *abs.gov.au*. Accessed 16 Dec 2021. <https://www.abs.gov.au/statistics/health/causes-death/causes-death-australia/2020#2020-potentially-avoidable-mortality-and-selected-external-causes-of-death>.
- Pure Profile on behalf of Budget Direct. (2021). Car accidents survey and statistics 2021. *Budget Direct*. Accessed 17 Oct 2021. <https://www.budgetdirect.com.au/car-insurance/research/car-accident-statistics.html>.
- Australian Bureau of Statistics. (2021). Causes of death, Australia – Data downloads – 1. Underlying causes of death (Australia). *abs.gov.au*. Accessed 16 Dec 2021. <https://www.abs.gov.au/statistics/health/causes-death/causes-death-australia/latest-release#data-download>.
- Spiegelhalter, D. via Risk Factor. (2017). Base jump. *Risk Navigator App*. Accessed 16 Dec 2021. <https://riskfactor.ca/app>.
- Australian Institute of Health and Welfare, National Perinatal Statistics Unit. (2008). Congenital anomalies in Australia 2002–2003. *Australian Government*. Accessed 16 Dec 2021. <https://www.aihw.gov.au/reports/mothers-babies/congenital-anomalies-australia-2002-2003/contents/table-of-contents>.
- Australian Institute of Health and Welfare via Cancer Australia. (2021). Cancers in Australia statistics. *Australian Government*. Accessed 16 Dec 2021. <https://www.canceraustralia.gov.au/impacted-cancer/what-cancer/cancer-australia-statistics>.
- Australian Institute of Health and Welfare. (2021). Injury in Australia: Falls. *Australian Government*. Accessed 16 Dec 2021. <https://www.aihw.gov.au/reports/injury/falls>.
- Pure Profile on behalf of Budget Direct. (2021). Speeding survey and statistics 2021. *Budget Direct*. Accessed 16 Dec 2021. <https://www.budgetdirect.com.au/car-insurance/research/speeding-statistics.html>.
- Food Authority. (2021). Food poisoning. *NSW Government*. Accessed 17 Oct 2021. <https://www.foodauthority.nsw.gov.au/consumer/food-poisoning>.
- National Center for Immunization and Respiratory Diseases, Division of Viral Diseases. (2019). Shingles (Herpes Zoster). *Centers for Disease Control and Prevention*. Accessed 16 Dec 2021. <https://www.cdc.gov/shingles/surveillance.html#:~:text=Almost%201%20out%20of%203,increases%20as%20you%20get%20older>.