



IMMUNISATION
COALITION

RISK OF DYING FROM COVID-19

Estimated deaths per 10,000 COVID-19 cases by age, sex, and vaccination status
Australia, January 2022. Version 2.0.

(based on circulating variants = 90% omicron and 10% delta)

AZ=AstraZenca COVID-19 vaccine. Pfz = Pfizer COVID-19 vaccine. Mod = Moderna COVID-19 vaccine.



Gender	Age group (years)	Not vaccinated	1 dose of AZ	2 doses of AZ	2 doses of AZ	2 doses of AZ	2 doses of AZ + Pfz or Mod booster	1 dose of Pfz	2 doses of Pfz	2 doses of Pfz	2 doses of Pfz	2 doses of Pfz + Pfz or Mod booster	Estimated deaths per 10,000 cases
			(3 weeks ago)	(2nd dose less than 2 mths ago)	(2nd dose 2 to 4 mths ago)	(2nd dose 4 to 6 mths ago)	(2 mths ago)	(3 weeks ago)	(2nd dose less than 2 mths ago)	(2nd dose 2 to 4 mths ago)	(2nd dose 4 to 6 mths ago)	(2 mths ago)	
Male	12-19	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #a6c9ec; margin-bottom: 5px;"></div> Less than 0.1 <div style="width: 15px; height: 15px; background-color: #c6e0b4; margin-bottom: 5px;"></div> 0.11 to 1.0 <div style="width: 15px; height: 15px; background-color: #fce4d6; margin-bottom: 5px;"></div> 1.1 to 10 <div style="width: 15px; height: 15px; background-color: #f4cccc; margin-bottom: 5px;"></div> 10.1 to 50 <div style="width: 15px; height: 15px; background-color: #e41a1c; margin-bottom: 5px;"></div> 50.1 to 150 <div style="width: 15px; height: 15px; background-color: #cc0000; margin-bottom: 5px;"></div> More than 150 </div>
	20-29	0.3	0.1	0.1	0.1	0.2	<0.1	0.1	0.1	0.1	0.1	<0.1	
	30-39	1.4	0.4	0.4	0.4	0.6	0.1	0.3	0.2	0.2	0.4	0.1	
	40-49	4	1.0	0.7	0.8	1.3	0.2	0.8	0.4	0.4	0.8	0.2	
	50-59	11	3	2	2	4	0.4	2	1.0	1.0	2	0.4	
	60-69	38	9	6	7	12	1.4	7	3	3	7	1.4	
	70+	362	98	74	80	134	18	75	42	42	83	18	
Female	12-19	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="width: 15px; height: 15px; background-color: #a6c9ec; margin-bottom: 5px;"></div> Less than 0.1 <div style="width: 15px; height: 15px; background-color: #c6e0b4; margin-bottom: 5px;"></div> 0.11 to 1.0 <div style="width: 15px; height: 15px; background-color: #fce4d6; margin-bottom: 5px;"></div> 1.1 to 10 <div style="width: 15px; height: 15px; background-color: #f4cccc; margin-bottom: 5px;"></div> 10.1 to 50 <div style="width: 15px; height: 15px; background-color: #e41a1c; margin-bottom: 5px;"></div> 50.1 to 150 <div style="width: 15px; height: 15px; background-color: #cc0000; margin-bottom: 5px;"></div> More than 150 </div>
	20-29	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
	30-39	0.4	<0.1	<0.1	<0.1	0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	
	40-49	1.6	0.4	0.3	0.3	0.6	0.1	0.3	0.2	0.2	0.3	0.1	
	50-59	7	2	1.5	1.6	3	0.4	1.4	0.8	0.8	1.6	0.4	
	60-69	22	7	6	6	10	1.4	5	3	3	6	1.4	
	70+	322	77	55	61	106	13	62	31	31	63	13	

IMPORTANT NOTES

- * Chart only shows risk of dying from COVID-19, but there are other potential long-term complications, such as Long COVID.
- * Each dose of vaccine takes about 2 weeks to work.
- * Calculations based on circulating variants = 90% omicron and 10% delta. Results might differ for other variants.
- * Calculations based on population-level data and do not take into account individual comorbidities.
- * Case fatality rates for Omicron based on reported cases & deaths in Australia during Omicron circulation, but true case numbers are unknown because of limited testing. Chart will be updated as more data become available.
- * Deaths likely to be higher in people with serious medical problems and in vulnerable groups.
- * Deaths likely to be higher if health systems are overwhelmed.
- * There are only minor differences between the effectiveness of Pfizer and Moderna boosters against death. Both are highly effective.

Estimates based on [CoRiCal \(COVID-19 Risk Calculator\)](https://corical.immunisationcoalition.org.au):

<https://corical.immunisationcoalition.org.au>.

Questions & feedback to Prof Colleen Lau,
University of Queensland: colleen.lau@uq.edu.au