

TABLE 1. UK Office for National Statistics (ONS) England Monthly Age-Standardized Mortality Rates (ASMRs) per 100,000 Person-Years and Vaccinated (Vax) to Unvaccinated (Unvax) Rate Ratios for January 1, 2021 to May 31, 2022 for Both Sexes and All Ages 10+ *

		All-Cause Mortality			p values	COVID-19 Mortality			p values	Non-C19 Mortality			p values
		RATE Unvax	Actual RATE Ever Vax	Ratio of Vax/ Unvax Rates		RATE Unvax	Actual RATE Ever Vax	Ratio of Vax/ Unvax Rates		RATE Unvax	Actual RATE Ever Vax	Ratio of Vax/ Unvax Rates	
2021	Jan	2507.6	3483.5	1.39		1187	1526	1.29		1320	1958	1.48	
	Feb	5261.5	3205.4	0.61		2174	456.8	0.21		3087	2689	0.87	
	Mar	3307.8	4192.7	1.27		591.9	283.9	0.48		2716	3909	1.44	
	April	2298.4	5039.7	2.19		145.8	184	1.26		2153	4855	2.25	
	May	1718.8	8582.6	4.99		45.5	84.5	1.86		1673	8426	5.04	
	June	1589.7	10060	6.33		55.6	87.7	1.58		1534	9916	6.46	
	July	1610.7	10307.1	6.40		218.2	224.9	1.03		1392	9960	7.16	
	Aug	1711.6	10340.7	6.04		404.2	402.9	1.00		1307	9266	7.09	
	Sept	1664.5	8639	5.19		367.8	520.2	1.41		1297	7884	6.08	
	Oct	1623.7	12456.3	7.67		322.3	568.6	1.76		1302	11845	9.10	
	Nov	1708	15546.6	9.10		421.3	721	1.71		1287	14155	11.00	
	Dec	1878.5	16974.3	9.04		520.5	1121.9	2.16		1358	15501	11.41	
2022	Jan	1812	19997.9	11.04		584.6	2310.9	3.95		1227	16417	13.38	
	Feb	1384.5	12474.4	9.01		258.7	1128.4	4.36		1126	11346	10.08	
	Mar	1231.7	10257.2	8.33		183.5	763.6	4.16		1048	9445	9.01	
	April	1204.6	12423.2	10.31		204.7	800.8	3.91		1000	11622.4	11.62	
	May	872.9	8246	9.45		77.6	261.8	3.37		795	7914	9.95	
average		1964	10131	6.37	0.0001	457	673	2.09	NS (0.8)	1507	9242	7.26	0.0001
						Oct 1 2021-May 31, 2022		3.17	0.01				

The “**Actual Rate Ever Vax**” refers to recompiled data where all the ASMRs in the different categories of vaccination were manually added up to yield a total, because the ‘Ever vaccinated’ totals provided by the ONS were manipulated/wrong.

NB: There were 71,318 vaccination cases that were excluded due to incomplete records. There were 1,436 vaccination deaths that were excluded because the vaccination details were only entered after they died and this was NOT updated. #

#<https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriages/deaths/bulletins/deathsinvolvingcovid19byvaccinationstatusengland/previousReleases>

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