

No evidence that BCG vaccination can protect against SARS-CoV-2 infection.



A research letter published in JAMA network showed that BCG vaccination in childhood had no protective effect against SARS-CoV-2 infection in adulthood. The authors report on a cohort of Israeli adults aged 35 to 41 years who received BCG vaccination in childhood compared with no vaccination and then tested for SARS-CoV-2. There was no statistically significant difference in the proportion of positive test results in the BCG-vaccinated group vs the unvaccinated group. There was 1 case of severe COVID-19 in each group, although there no deaths reported.

Table. Results of SARS-CoV-2 PCR Testing by Age Group

	Birth year		Difference (95% CI)	P value
	1979-1993 (80% vaccinated)	1993-1995 (80% unvaccinated)		
Total population	297 348	321 800		
Immigrants in total population, No. (%) ^a	14 169 (4.8)	11 871 (3.7)		
No. of tests	3084	2808		
Proportion of population tested, %	1.03	0.88		
Men tested, No. (%)	1589 (49.2)	1458 (50.8)		.29
Positive results				
No. (%)	360 (11.7)	299 (10.6)	1.1 (-0.1 to 2.3)	.39
No. per 100 000 population in age group ^b	121	100	21 (-10 to 50)	.15
Men with positive result, No. (%)	280 (18)	197 (14)		.87
No. with severe disease	1	1		

Abbreviations: PCR, polymerase chain reaction; SARS-CoV-2, severe acute respiratory syndrome coronavirus 2.

^a Number of immigrants from countries that have a BCG vaccination policy and are included in the total population for the different birth-year groups.¹

^b Rates per 100 000 population do not represent the positivity rate in the population because the persons tested were presymptomatic or symptomatic.

Source: Hamiel et al., 2020 JAMA Network

Journal Article: Hamiel et al., 2020. [SARS-CoV-2 Rates in BCG-Vaccinated and Unvaccinated Young Adults.](#) JAMA Network

Summary by Clive Gray