

Vaccine effectiveness high for preventing COVID-19 hospitalization

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(HealthDay)—Vaccine effectiveness (VE) is high for preventing COVID-19-associated hospitalization, even during predominance of the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) delta strain, according to two studies published in the Sept. 10 early-release issue of the U.S. Centers for Disease Control and Prevention *Morbidity and Mortality Weekly Report*.

Shaun J. Grannis, M.D., from the Regenstrief Institute in Indianapolis, and colleagues examined medical encounters from 187 hospitals and 221 emergency departments and urgent care clinics across nine states during June to August 2021. The researchers found that among adults hospitalized with COVID-19-like illness, SARS-CoV-2 infections were identified among 18.9 and 3.1 percent of unvaccinated and fully vaccinated patients, respectively. VE was 86 percent against COVID-19 hospitalization overall and was significantly lower among adults aged 75 years and older versus those aged 18 to 74 years (76 versus 89 percent). VE was highest for Moderna versus

Pfizer-BioNTech and Janssen recipients across all ages (95 percent versus 80 and 60 percent, respectively). VE against COVID-19 [emergency department/urgent care encounters](#) was 82 percent overall and was highest for Moderna versus Pfizer-BioNTech and Janssen vaccine recipients (92 percent versus 77 and 65 percent, respectively).

Kristina L. Bajema, M.D., from the CDC COVID-19 Response Team, and colleagues examined mRNA VE against COVID-19-associated hospitalizations among 1,175 U.S. veterans aged 18 years or older at five Veterans Affairs Medical Centers during Feb. 1 to Aug. 6, 2021. The researchers found that the overall adjusted VE was 86.8 percent against COVID-19-associated hospitalization and was similar before and during delta prevalence (84.1 and 89.3 percent during Feb. 1 to June 30 and July 1 to Aug. 6, respectively). Among adults aged 65 years or older and those aged 18 to 64 years, VE was 79.8 and 95.1 percent, respectively.

"Additional evaluations, particularly among [older adults](#) with high prevalences of underlying conditions, are important to assess [vaccine effectiveness](#) in these populations," Bajema and colleagues write.

More information: [Abstract/Full Text - Grannis](#)
[Abstract/Full Text - Bajema](#)

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