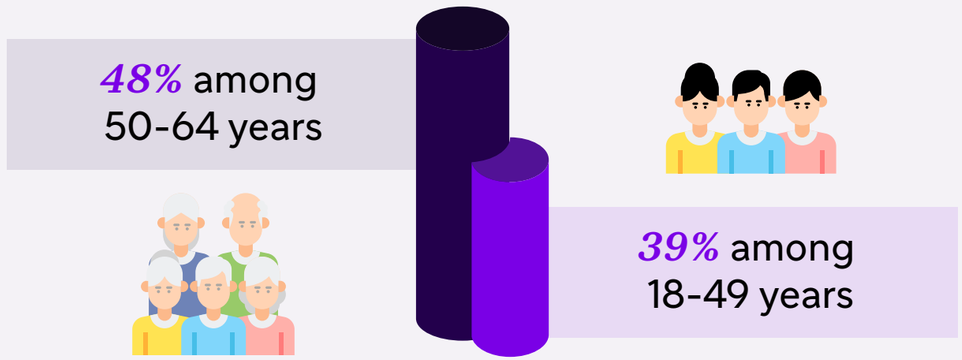
Influenza hospitalizations among working age adults (18-64 years) and the potential benefit of recombinant vaccines: USA, 2012-13 through 2022-23

Microbiol Infect Dis AMJ. 2024;2(Advertisement):10-11.
https://doi.org/10.33590/microbiolinfectdisam/advertisement/UMWN2191.

1 Suboptimal vaccination rates among working age adults (18-64 years) despite the universal influenza vaccine recommendation

Influenza vaccination rates in 2022-23[1]



Adults 18-64 years of age account for *>60%* of the US population[2]

2 Substantive burden of severe influenza in working age adults (18-64 years), particularly 50-64 years and at risk* 18-49 years over the past 10 years

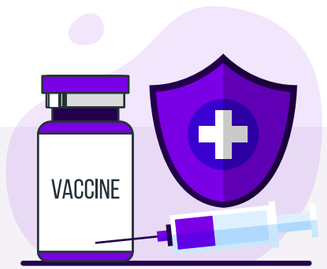
From *37,000* to *204,000 influenza hospitalizations per season* among 18-64 years old†

18-64 years contributed from *21 to 47% of all-age influenza hospitalization,* with higher percentages during seasons dominated by H1N1pdm09†

Average annual influenza hospitalization rates per 100,000 population

- *123* 50-64 years†
- *82* At-risk* 18-49 years‡

**At-risk: people having ≥1 chronic medical condition*
†Based on retrospective descriptive analysis of US CDC influenza burden data from 2012-13 through 2022-23 (excluding 2020-21 season)[3]
‡Estimated influenza hospitalization applying US prevalence[4] and relative risk[5] among at-risk 18-49 years



3 Modeling data suggests a switch to recombinant influenza vaccine may reduce influenza hospitalizations

The full use of recombinant vaccine in adults 50-64 years and at-risk 18-49 years of age could have averted *>10,000 influenza hospitalizations* each season[6]

+47% of averted influenza hospitalizations based upon 30% relative vaccine effectiveness of recombinant vaccine compared to standard dose

Consideration of vaccination programs tailored to working age adults may support improved public health in the US

REFERENCES
1. CDC. Influenza vaccination coverage. Data extracted in March 2024 from https://www.cdc.gov/fluvaxview/interactive/general-population-coverage.html. Accessed September 24, 2024; **2.** USA Facts. America in facts. 2024. Available from: https://staticweb.usafacts.org/media/documents/USAFacts_2024_DIGITAL_Population.pdf. Accessed October 02, 2024. **3.** CDC. About estimated flu burden. Data extracted in March 2024 from https://www.cdc.gov/flu-burden/php/about/index.html. Accessed September 24, 2024; **4.** Clark A, et al. *Lancet Glob Heal*. 2020;8:1003–1017; **5.** Coleman BL, et al. *Influenza Other Respi Viruses*. 2018;12:22-29; **6.** Torcel-Pagnon L, et al. IDWEEK congress 2024. Poster_P-35.

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