

COVID-19: Current State

3x more firefighters have died from covid-19 infection than die on duty from cardiac events

From 2020 - Present over 260 Firefighters, in the United States, have died due to COVID-19

Measures such as social distancing, masking, ventilation, & attention to hygiene help decrease the spread of COVID...

NOTHING is as effective as **VACCINES** at reducing death & disease among Firefighters

HOW DO COVID VACCINES COMPARE TO OTHER VACCINES?

COVID-19 VACCINES vs. OTHER VACCINES

Polio vaccine - 2 doses 90%, 3 doses 99%, 4 doses just under 100%

MMR (measles, mumps, rubella) - 1 dose 93%, 2 doses 97%

Flu - prevents 40-60% of infection

Moderna - Pre-Delta, 91% (100 days after second dose); Delta 70% (250 days after second dose) in preventing symptomatic COVID-19
Pre Delta, 94%; Delta 92% effective in preventing hospitalization
67-90% reduction in transmission of COVID-19

Pfizer - Pre-Delta, 80% (100 days after second dose); Delta 65% (250 days after second dose) in preventing symptomatic COVID-19
Pre Delta, 95%; Delta 78% (5 months after full vaccination) in preventing hospitalization
72-95% reduction in transmission of COVID-19

Johnson & Johnson - Pre-Delta, 68%; Delta 49-78% in preventing symptomatic COVID-19
Pre Delta, 100% in clinical trials; Delta 60-81% effective in preventing hospitalization
74% reduction in transmission of COVID-19

IF I'M HEALTHY DO I REALLY NEED A VACCINE? WON'T MY BODY JUST FIGHT IT OFF?



- Risk of severe disease is **higher** for the **less healthy**
- Vaccines reduce spread of infection
- Those who are healthy can still have severe, negative side effects
- High community spread leads to faster mutations

Among those who have not been vaccinated, an estimated 10% of firefighters are experiencing Long COVID - often leading to disability.

Long COVID is when symptoms last more than 4 weeks:

- Persistent cough
- Shortness of breath
- Fatigue
- Headache
- Heart palpitations
- Chest pain
- Physical limitations
- Depression
- Insomnia



PREVALENCE OF LONG COVID SYMPTOMS:

37% **25%** **32%** **49%**

30 days after infections 60 days after infections 90 days after infections 120 days after infections



An estimated 200 million+ people globally suffer from long-term effects of COVID-19

1. <https://www.firerescue1.com/coronavirus-covid-19/articles/covid-19-honoring-fallen-firefighters-la0l8Hf2UzjRdTPC/>
 2. Katella K. Comparing the COVID-19 Vaccines: How Are They Different? Yale Medicine. Published October 7, 2021. Accessed October 14, 2021. <https://www.yalemedicine.org/news/covid-19-vaccine-comparison>
 3. [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(20\)32662-3/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(20)32662-3/fulltext)
 4. Chen C, et al. J Infect Dis. 2022;doi:10.1093/infdis/jiac136