

CI surgery
and vaccine
effectiveness





Effectiveness of COVID-19 vaccines

What does it mean to us

For community:

- 70-85% of the population would need to be vaccinated or immune to reach herd immunity
- Medical resource, finance loss, mental health, quality of life etc.. Need to be considered

For individuals:

- Effective to prevent from hospitalization, severe disease or death
- Medical history, life style, possible side effects need to be considered

Mutation and future?

- May be less effective with mutated variants
- Possible booster shot in the future



Can I still spread the virus
after being fully
vaccinated?



After fully vaccinated

What does it mean to us

- Yes
- people who are fully vaccinated could still spread the virus
- The vaccines do not offer 100% protection. We must maintain caution

<https://www.health.harvard.edu/blog/fully-vaccinated-against-covid-19-so-what-can-you-safely-do-2021032522230>





After fully vaccinated

Can do (low risk):

- gather with people outside my household who also are fully vaccinated
- visiting fully vaccinated family or friends, without mask
- healthy but not yet vaccinated people ages 64 or younger

Be cautious (high risk):

- Visiting people who are at risk for severe COVID-19 due to age (65 or older) or health conditions, such as cancer, diabetes, heart disease, sickle cell disease, or other special conditions
- visiting with unvaccinated people from multiple households at the same time
- Medium- or large-sized gatherings

<https://www.health.harvard.edu/blog/fully-vaccinated-against-covid-19-so-what-can-you-safely-do-2021032522230>

https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html#anchor_1615143336158

CDC recommendation



https://www.cdc.gov/coronavirus/2019-ncov/vaccines/fully-vaccinated-guidance.html#anchor_1615143336158



Vaccine in pre-op
CI surgery protocol?



Vaccine in pre-op CI surgery protocol?

- Vaccines are not tested / approved for being use in children
- Further discussions are needed to evaluate the benefits in adult CI surgery
 - Between 0.6% and 1.6% of patients develop COVID-19 infection after elective surgery.
 - Patients who develop COVID-19 infection are at between 4- and 8-fold increased risk of death in the 30 days following surgery
 - scientists estimate that global prioritisation of pre-operative vaccination for elective patients could prevent an additional 58,687 COVID-19-related deaths in one year.



Treatment
Update



Treatment Update

<https://www.nytimes.com/interactive/2020/science/coronavirus-drugs-treatments.html>

Approved:

- Remdesivir

Widely Used

- Prone positioning
- Ventilators and other respiratory support devices

Promising:

- Dexamethasone and Other Corticosteroids
- Cytokine Inhibitors

Pseudoscience or Fraud

- Drinking or injecting bleach and disinfectants
- UV light
- Silver



Treatment Update

Tentative and mixed evidence

Blocking the virus

- Favipiravir (also known as Avigan)
- Molnupiravir
- Recombinant ACE-2, Ivermectin

Mimicking immune system

- Convalescent plasma
- Monoclonal antibodies
- Interferons

Reducing immune overreacting

- Blood filtration systems
- Stem cells
- Colchicine

Others

- Anticoagulants
- Vitamin and mineral supplements

<https://www.nytimes.com/interactive/2020/science/coronavirus-drugs-treatments.html>



hearing

This report is based on facts and data

Source

Topic





 **hearing**