

Possible Impacts of a COVID-19 Vaccine

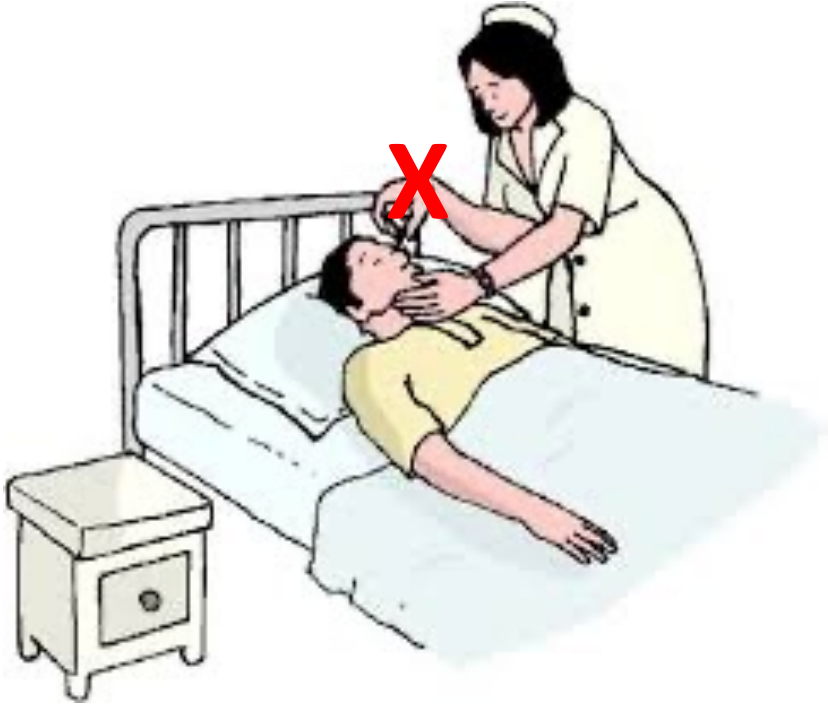
1. Block infection



2. Block transmission



3. Block disease*



Superiority of Vaccine-Induced Immunity to Infection Induced Immunity



Morbidity and Mortality Weekly Report

Early Release / Vol. 70

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Laboratory-Confirmed COVID-19 Among Adults Hospitalized with COVID-19–Like Illness with Infection-Induced or mRNA Vaccine-Induced SARS-CoV-2 Immunity — Nine States, January–September 2021

Outcome	Total no.	No. (row %) of SARS-CoV-2 positive test results	Adjusted odds ratio (95% CI)
All adults (aged ≥18 years), any COVID-19 mRNA vaccine			
Any mRNA vaccine			
Fully vaccinated [†] without previous documented infection	6,328	324 (5.1)	Ref
Unvaccinated with a previous SARS-CoV-2 infection	1,020	89 (8.7)	5.49 (2.75–10.99)

Changes in Vaccine Efficacy Over Time

Efficacy in Blocking

Infection

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+

Transmission

+++

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+

Severe Disease

+++

+++

+++

1

2

3

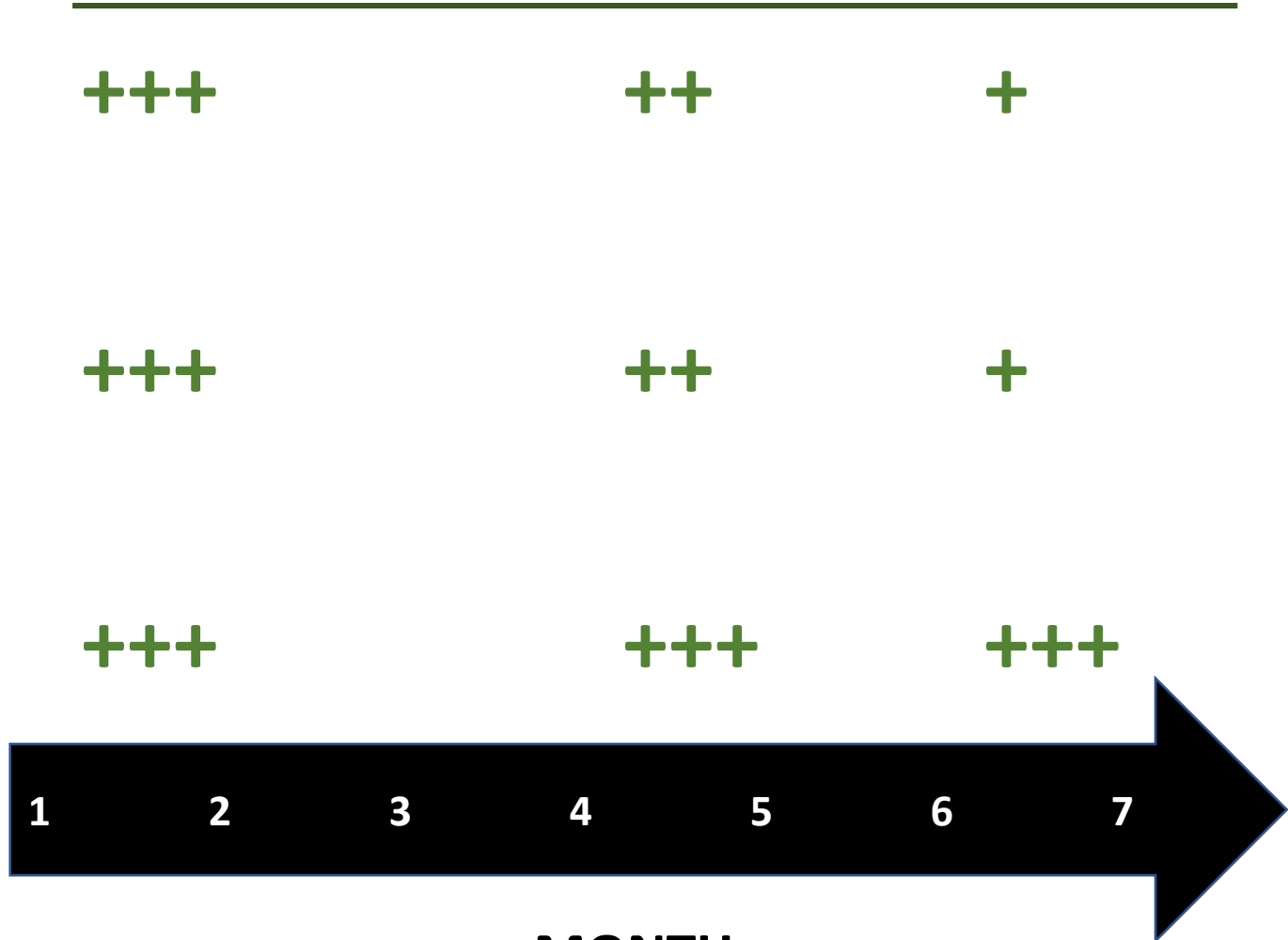
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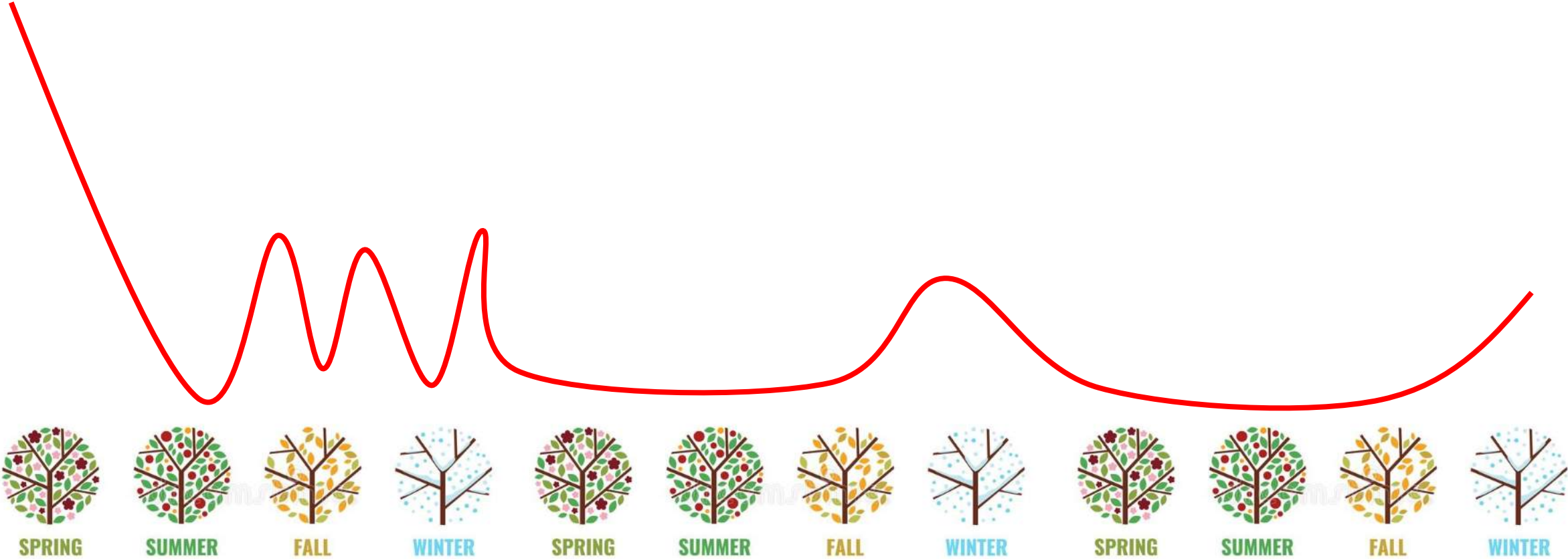
MONTH



Changes in Vaccine Efficacy Over Time



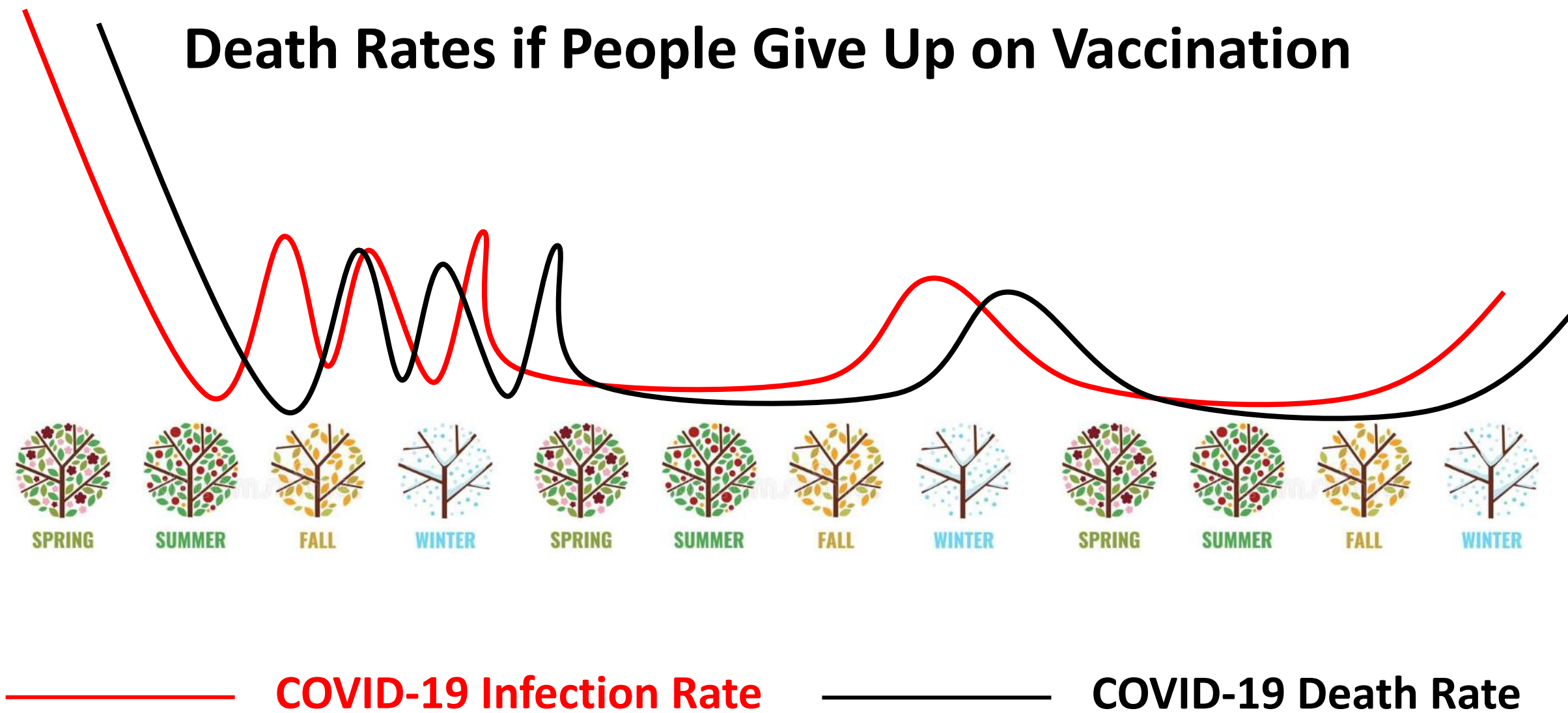
SARS-CoV-2 Pandemic > Endemic



— COVID-19 Infections

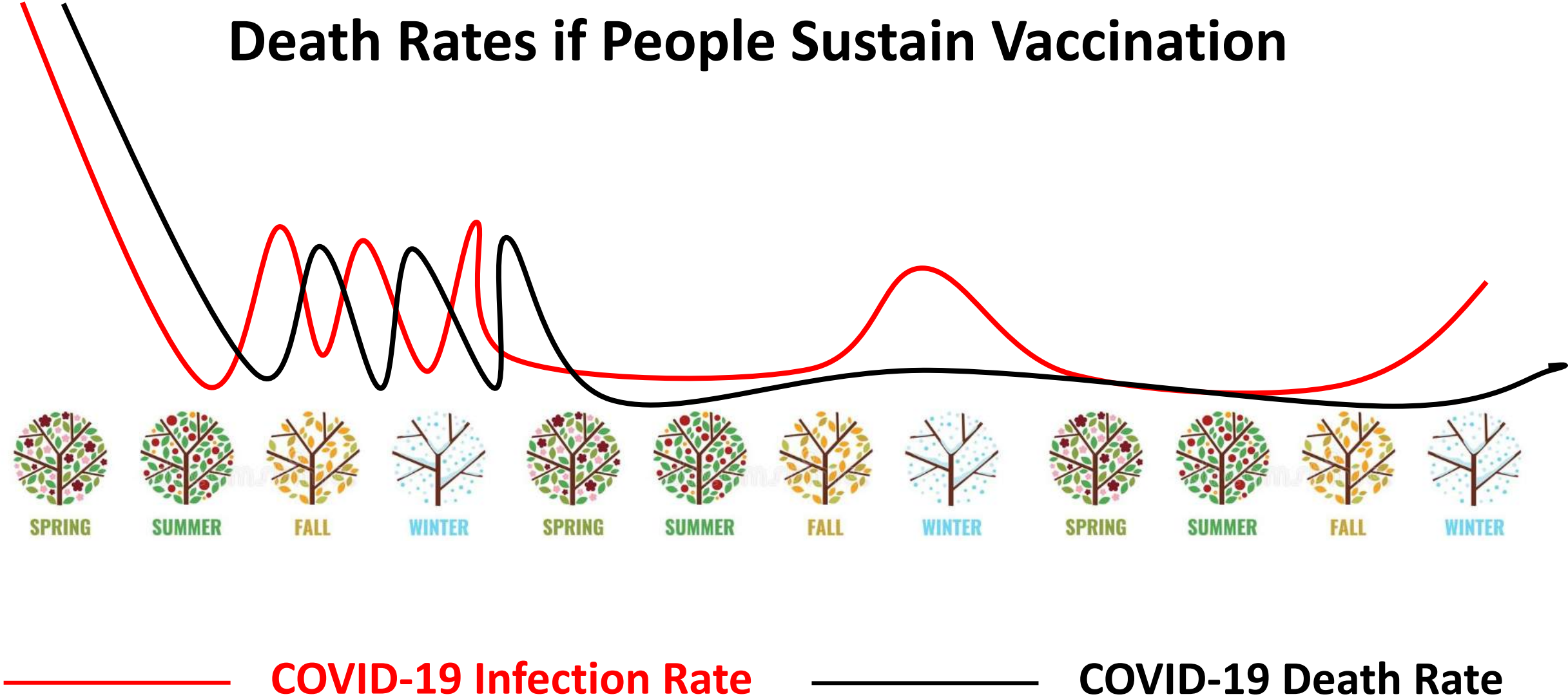
SARS-CoV-2 Pandemic > Endemic

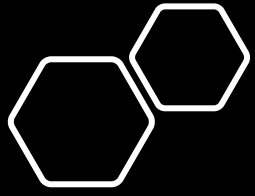
Death Rates if People Give Up on Vaccination



SARS-CoV-2 Pandemic > Endemic

Death Rates if People Sustain Vaccination





New COVID-19 Drugs: Molnupiravir (Merck) and Paxlovid (Pfizer)



So

Do I still need to be vaccinated?

WORLD COUNTRIES

YES!

UNITED STATES

All Time

Past Day

Past Week

Past Month

New Cases

2,273,813

↑ Record high:

6,476,621 December, 2020

New Deaths

41,605

↑ Record high:

96,652 January, 2021

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CORONAVIRUS
RESOURCE CENTER