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Verzonden: vrijdag 12 maart 2021 13:57

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Onderwerp: Re: Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes | Science

Hi 5.1.2e

That all makes sense! Thanks for the clarification.

best

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Verzonden: vrijdag 12 maart 2021 13:53

Aan: 5.1.2e, 5.1.2e, (5.1.2e) <5.1.2e@amsterdamumc.nl>; 5.1.2e, 5.1.2e, (5.1.2e) <5.1.2e@amsterdamumc.nl>; 5.1.2e, 5.1.2e, 5.1.2e, (5.1.2e) <5.1.2e@amsterdamumc.nl>

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Onderwerp: Re: Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes | Science

The answer depends on whether we're asking about the creation of new variants or the proliferation of already emerged variants. Given the short-lived nature of typical SARS-CoV-2 infections, vaccination (regardless of effectiveness) should primarily serve to slow down the creation of new variants by reducing the number of infections and the size of the within-host virus populations (thus making it less likely for the virus to approach mutation-selection balance). For the proliferation of new variants, because selection is more likely to act at the population level than within-host level, weak vaccine immunity will exert weak selection pressure, intermediate immunity intermediate pressure, strong immunity strong pressure. But in this context, the same is likely to be true for infection acquired immunity – weak immunity, weak pressure; strong immunity, strong pressure.

I think the main risks associated with delayed second dose or no second dose at all are the health consequences for individuals. Without further evidence as to the consequences of modified schedules, I think we should be sticking with vaccination schedules that have been explicitly investigated in clinical trials.

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Date: Friday, 12 March 2021 at 12:52

To: "5.1.2e, 5.1.2e" <5.1.2e@amsterdamumc.nl>, "5.1.2e, 5.1.2e, (5.1.2e)" <5.1.2e@amsterdamumc.nl>, "5.1.2e, 5.1.2e, 5.1.2e, (5.1.2e)" <5.1.2e@amsterdamumc.nl>

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Subject: Re: Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes | Science

Hi 5.1.2e

Thanks for sharing your views on this. How do you think this applies to situations (which might become more frequent), where you have a combination of a moderately efficacious vaccine (Janssen or AstraZeneca), a delayed second dose or no second dose at all, and emerging variants that are less sensitive to vaccine immunity (B.1.351 and P.1 but also B.1.1.7 sublineages acquiring E484K).

best

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Verzonden: donderdag 11 maart 2021 22:22

Aan: 5.1.2e, 5.1.2e, (5.1.2e) <5.1.2e@amsterdamumc.nl>; 5.1.2e, 5.1.2e, (5.1.2e) <5.1.2e@amsterdamumc.nl>; 5.1.2e, 5.1.2e, (5.1.2e) <5.1.2e@amsterdamumc.nl>

Onderwerp: Re: Epidemiological and evolutionary considerations of SARS-CoV-2 vaccine dosing regimes | Science

Bill Hanage and I just submitted a letter to the editor about this paper

5.1.2e

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On 11/03/2021, 08:12, "5.1.2e, 5.1.2e, (5.1.2e)" <5.1.2e@amsterdamumc.nl> wrote:

<https://eur04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fscience.sciencemag.org%2Fcontent%2Fearly%2F2021%2F03%2F08%2Fscience.abg8663.full&data=04%7C01%7%40amsterdamumc.nl%7Cd4cf89428f0949f0988608d8e4d3d431%7C68dfab1a11bb4cc6beb528d756984fb6%7C0%7G%7C637510946486162201%7CUknown%7CTWFpbGZsb3d8eyJWljoic4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6Ik1haWwiLCJXVCi6Mn0%3D%7C1000&data=D%2BizmX31%2FejVpW04g0sAkU16rz16xonAAqIQJ8IkC8%3D&reserved=0>

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