

To: [redacted] 5.1.2e [redacted] 5.1.2e [redacted] @rivm.nl; [redacted] 5.1.2e [redacted] 5.1.2e [redacted] @rivm.nl; [redacted] 5.1.2e
[redacted] 5.1.2e [redacted] 5.1.2e [redacted] @rivm.nl]; [redacted] 5.1.2e [redacted] 5.1.2e [redacted] @rivm.nl]
From: [redacted] 5.1.2e
Sent: Thur 1/21/2021 10:40:42 AM
Subject: RE: allocating vaccines
Received: Thur 1/21/2021 10:40:43 AM

Hi [redacted] 5.1.2e

That's nice but there is no room today to change the model itself. Only in how the campaigns are defined. Basically I'm going to use what I sent, only shifting the use of AZ to only <70.

As an alternative I will only consider options where the current vaccination rate (# per week) is way too optimistic, so that I change the end times. So if you could focus on that for now, that would be great.

[redacted] 5.1.2e

From: [redacted] 5.1.2e <[redacted] 5.1.2e [redacted] @rivm.nl>

Sent: Thursday 21 January 2021 11:36

To: [redacted] 5.1.2e <[redacted] 5.1.2e [redacted] @rivm.nl>; [redacted] 5.1.2e <[redacted] 5.1.2e [redacted] @rivm.nl>; [redacted] 5.1.2e <[redacted] 5.1.2e [redacted] @rivm.nl>; [redacted] 5.1.2e <[redacted] 5.1.2e [redacted] @rivm.nl>

Subject: RE: allocating vaccines

Hi [redacted] 5.1.2e

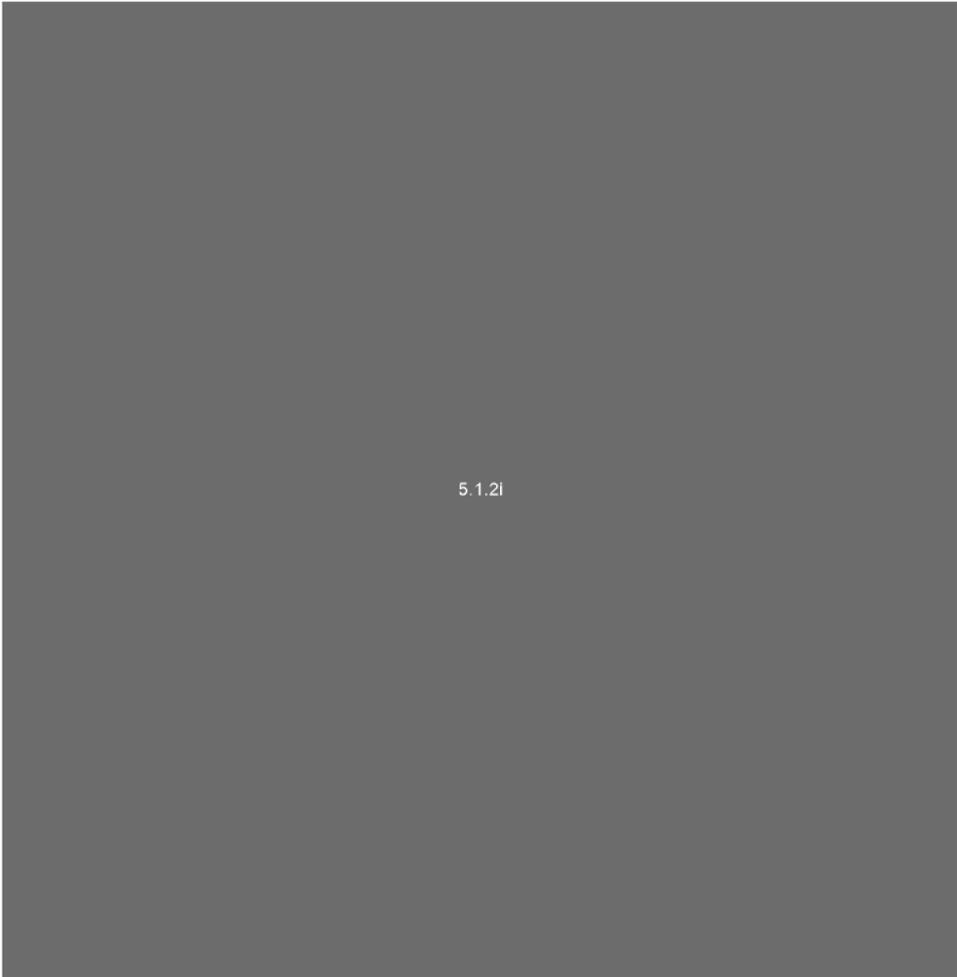
I am playing around a little with a scenario where you invite consecutive age groups, 90+, 80-90 and 70-80 and you use a fixed capacity, where you have to use this capacity to give a 1st or a 2nd dose. What you get is a less smooth pattern compared to what you shared yesterday. (below the plot assuming a 80% uptake an a capacity of 400.000 a week, and 4 weeks between dose 1 and 2).

It is a bit of a fiddle but will try to expand with the other age groups. (Just to update you that I am doing something *).

BW,

[redacted] 5.1.2e

5.1.2i



5.1.2i

From: 5.1.2e <5.1.2e@rivm.nl>

Sent: 21 January 2021 09:38

To: 5.1.2e <5.1.2e@rivm.nl>; 5.1.2e <5.1.2e@rivm.nl>; 5.1.2e
<5.1.2e@rivm.nl>; 5.1.2e <5.1.2e@rivm.nl>

Subject: RE: allocating vaccines

Hi 5.1.2e

Wow, that's a lot to consider. I now simply used the numbers from the VWS diagram, the duration indicated by the coloured bands, and the vaccines indicated by the colours (there I simplified a bit). The info you provide here is to check every individual 'campaign' if that is all within the conditions.

I have coded vaccination into the model, but I haven't run it yet nor done any checks, so I'll need some time for that as well.

@ 5.1.2e would you have time to check the current 'campaigns' against the conditions below (or your own ideas about what is realistic). Then I'll do that as well and we can check against each other.

Best wishes

5.1.2e

From: 5.1.2e <5.1.2e@rivm.nl>

Sent: Thursday 21 January 2021 09:25

To: 5.1.2e <5.1.2e@rivm.nl>; 5.1.2e <5.1.2e@rivm.nl>; 5.1.2e
<5.1.2e@rivm.nl>

Subject: RE: allocating vaccines

Hi [5.1.2e]

Thanks for sharing this wonderful picture. Difficult to judge whether the planning and this picture are realistic.

A few things:

- The Health Council and government still need to decide if AstraZeneca will be used for the 60-70 year group, my guess is that they will advise it is ok.
- AstraZeneca will not be used for 70+
- Pfizer will be used for elderly who can drive to a GGD location to be vaccinated; Moderna vaccines are used for elderly who cannot drive themselves and have to be vaccinated by a GP
- the maximum capacity of GPs and GGD vaccinating at full speed is thought to be 800 000 a week.
- Not sure about capacity of GPs who are planned to deliver all AstraZeneca vaccines to people under 60 that are high risk, but most likely also those not high risk. Say it is 400 000 a week. This means about a 10-year age cohort a month. Is that about the speed in your calculations?
- you assume that all persons who get a first dose also get the second dose?
- second dose effectiveness in trials was measured 7 days after administering the second dose, so that might be 49 rather than 56 days?

Is it ok if I circulate this to others involved in the vaccination programme outside our unit?

Best

[5.1.2e]

From: [5.1.2e] <[5.1.2e]@rivm.nl>

Sent: woensdag 20 januari 2021 19:02

To: [5.1.2e] <[5.1.2e]@rivm.nl>; [5.1.2e] <[5.1.2e]@rivm.nl>; [5.1.2e] <[5.1.2e]@rivm.nl>

Subject: allocating vaccines

Hi [5.1.2e]

I have translated the attached vaccine flowchart from the website of VWS (ministry of health) to an increasing vaccine coverage per age group, assuming a maximum coverage of 80% (acceptance). It is the coverage of the first shot (figure attached).

Something like this will be the input for my simulation model, assuming a first-dose effectiveness after 14 days and a second-dose effectiveness after 56 days (six weeks later, as was announced today to be the between first and second dose). Effectiveness is vaccine specific ([5.1.2e] gave me the numbers).

Does it look reasonable? I can give more detail about what I assumed for every row in flowchart if you like.

Best wishes

[5.1.2e]