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**From:** McLean, Angela SCS (CSA-Personal) [Angela.Mclean113@mod.gov.uk]  
**Sent:** 12/04/2020 8:44:36 PM  
**To:** Vallance, Patrick (GO-Science) [P.Vallance1@go-science.gov.uk]; Whitty, Chris [Chris.Whitty@dhsc.gov.uk]  
**CC:** Wainwright, Stuart (Go Science) [Stuart.Wainwright@Go-Science.gov.uk]; Graham Medley  
**Irrelevant & Sensitive**; Neil Ferguson **Irrelevant & Sensitive**; John Edmunds  
**Irrelevant & Sensitive**; Government Chief Scientific Adviser (GO-Science) [GCSA@go-science.gov.uk];  
Government Chief Scientific Adviser (GO-Science) [GCSA@go-science.gov.uk]  
**Subject:** RE: Post lockdown scenarios - discussion document  
**Attachments:** Post lockdown Scenarios V4 + ALL commented.docx  
  
**Flag:** Follow Up

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Dear Patrick,

I am sending you a highly commented document, because I think the comments are more interesting than a simple edit would be.

We can't pluck out numbers to put in straight off. As always there is great uncertainty generated by the unknown fraction of completely hidden cases. For me the next biggest uncertainty is how well we could shield the known vulnerable.

I'm not sure what we want to do with this document?

JNG do you think we could produce a table of the numbers at least in orders of magnitude.

However I think the dichotomy for politicians is simpler than that

Do you want to keep COVID deaths as low as possible until pharmaceuticals produce a solution

Or

Are you prepared to define a tolerable level of COVID deaths that would allow us to start moving towards an immune population whilst we wait.

The devil is then how small can "tolerable" be and still move us towards an immune population at some meaningful rate.

Perhaps we could do that - if you want to be at population immunity within a year, we cannot imagine getting there with any fewer than N deaths...

Angela

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**From:** Vallance, Patrick (GO-Science) <P.Vallance1@go-science.gov.uk>

**Sent:** 12 April 2020 15:34

[See recipients listed above]

**Subject:** RE: Post lockdown scenarios - discussion document

Dear Angela et al

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