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**From:** Beattie, Carol [/O=NIGOV/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=E7915090279E4917B3041A3A2971899D-CAROL BEATTIE 2342]  
**Sent:** 12/02/2020 6:10:22 PM  
**To:** DoH Health Gold Chief of Staff [healthgold.chiefstaff@health-ni.gov.uk]; Armstrong, Gillian (DoH) [gillian.armstrong@health-ni.gov.uk]; Chada, Naresh [naresh.chada@health-ni.gov.uk]  
**CC:** McBride, Michael [michael.mcbride@health-ni.gov.uk]  
**Subject:** NI estimates FW: HPRM: FW: FOR INFORMATION: SAGE 6 minute and Covid-19 planning assumptions table  
**Attachments:** Covid-19 SAGE #6 minute 120220.pdf; Pan Flu Assumptions vs WN-CoV to circulate 120220.pdf  
**Flag:** Follow up

## Colleagues

The SAGE estimates for the requirement for health assessment and hospital cases and critical care in the 2<sup>nd</sup> attachment warrants work to calculate NI estimates. I have added some rough NI figures below in red but we would need policy colleagues and others to look at this (and check the maths).

<b>2nd Order Assumptions</b>	<b>Pan Flu reasonable worst case, based on a 2016 population, including confidence intervals where possible</b>	<b>Covid-19 current estimates, based on a 2016 population, including confidence intervals where possible</b> <b>Draft NI estimates in red</b>
<b>Numbers requiring assessment at health services</b>	9,840,000 would require assessment by health services. This is 30% of all those that are symptomatic.	Unknown, use pan flu planning assumptions. <b>Approx. 330,000 people in NI would require assessment by health services ( ? over a period of 6 months)</b>
<b>Hospital cases</b>	1,312,000 would require hospital care, i.e.	Unknown, but possibly in the region of 4% (1,312,000), as per pan flu planning assumptions.

average six-day length of stay. This is 4% of all those that are symptomatic.

Approx. 44,000 people in NI would require hospital care. Assuming all of these are inpatient cases with average LoS of 6 days this equates to a requirement for 264,000 bed days (? over a period of 6 months). In 2018/19 there were around 224,000 inpatient admissions to acute hospital beds (all ages) with an average LoS of 5.2 days giving around 1,165,000 occupied bed days in NI over 12 months. So the requirement would potentially be for around 40% of all acute hospital inpatient bed days ( but peak would be higher) .

<https://www.health-ni.gov.uk/sites/default/files/publications/health/hs-episode-based-activity-stats-volume-1-18-19.pdf>

### Hospital critical care

328,000 require the highest level of critical care (require intensive care for 10 days). This is 1% of all those that are symptomatic.

Unknown, but possibly about 1%), as per pan flu planning assumptions.

Approx. 11,000 people in NI would require the highest level of critical care (intensive care for 10 days) which is around 110,000 bed days. (? over a period of 6 months). This is well in excess of the total critical care capacity. (Note: these 110,000 critical care bed days are probably included in the 264,000 acute hospital inpatient bed days referred to above.)

Regards, Carol

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T **Irrelevant & Sensitive**

**From:** DoH Health Gold Ops Cell

**Sent:** 12 February 2020 16:10

**To:** **Name Redacted** @health-ni.gov.uk; Armstrong, Gillian (DoH) <Gillian.Armstrong@health-ni.gov.uk>; Beattie, Carol <Carol.Beattie@health-ni.gov.uk>; **Name Redacted** @health-ni.gov.uk; **Name Redacted** @health-ni.gov.uk; Chada, Naresh <Naresh.Chada@health-ni.gov.uk>; **Name Redacted** @health-ni.gov.uk; Collins, Gerard <Gerard.Collins@health-ni.gov.uk>; **Name Redacted** NR @health-ni.gov.uk; DoH Health Gold Chief of Staff <healthgold.chiefstaff@health-ni.gov.uk>; **Name Redacted** **Name Redacted** NR @health-ni.gov.uk; Gordon, David <David.Gordon@health-ni.gov.uk>; **Name Redacted** **Name Redacted** @health-ni.gov.uk; McBride, Michael

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Colleagues

Please see attached for your information

Regards

Ops Cell