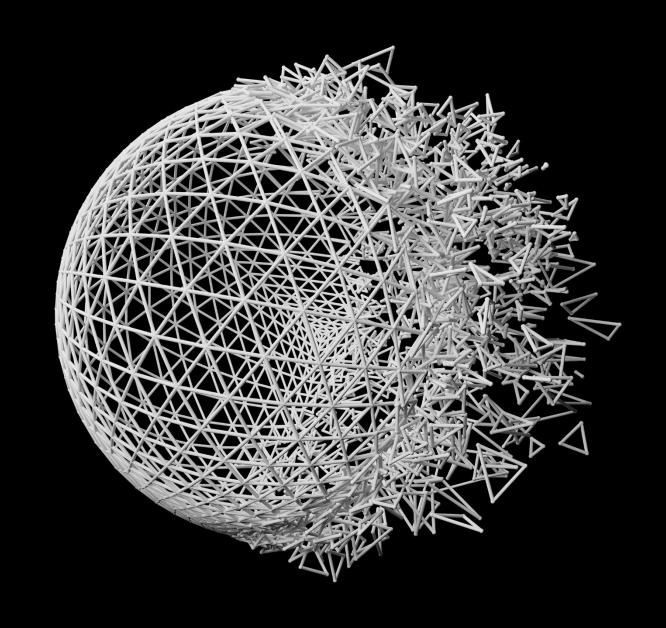
Deloitte.

Deloitte COVID-19

Ashleigh Theophanides



Disclaimer

Results are data and behaviour dependant

Model results have been based on model calibration against available data up to 19 May 2020. We have not performed detailed assurance on the various data sources used in the projections.

Future projections are then based on assuming the successful implementation of nation wide testing, tracking and tracing initiatives which will continue from early April 2020 onwards.

The projections are very sensitive to the impact of policy decisions, behaviour of the general population of South Africa and external environment factors such the non-availability of vaccines and the seasonal impacts of weather on virus transmission.

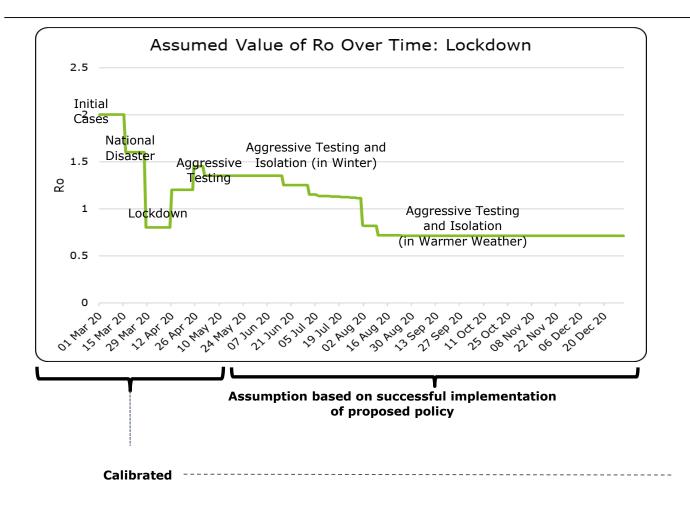
Therefore projections must be updated on a developing basis as new information arises in order to be as accurate as possible. This is particularly true of forecasts which are more than one month in advance.

These results have been produced to support B4SA in the support they are providing to the various government departments.

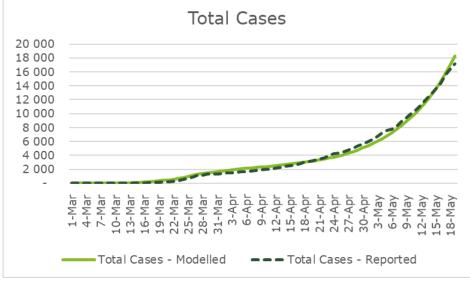


Model Assumptions

Model Calibration of Ro and Projected Ro



Year to Date Calibration of Ro (Based on Cumulated Cases)



Model Assumptions

Year to date transition of COVID 19 severity assumptions





These are highly heterogeneous assumptions based on available private hospital data and will be updated as more data emerges.



Projected Ventilators Required Assumptions

We now also considered PUI (patients under investigation) admissions, based on the experience in the private hospitals. Needs further analysis.

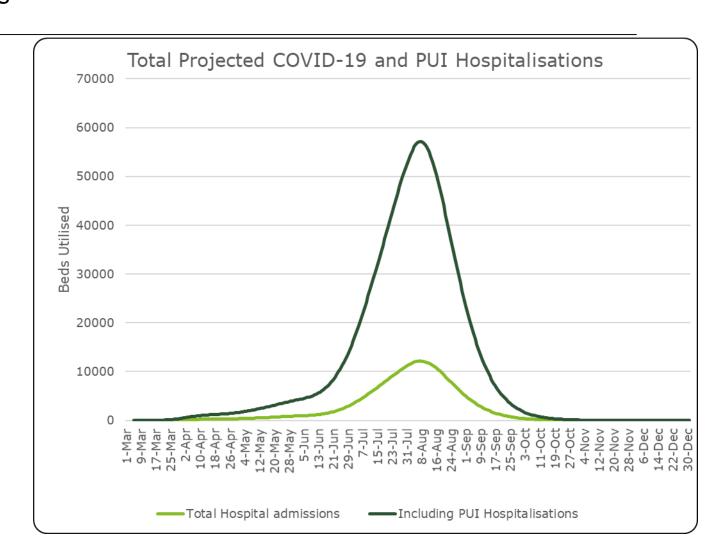
PUI Adjustment:

GW 6.20968 HC 3.496 ICU 2.812676

This gives a more accurate indication of the number of beds occupied.

Ventilator requirements is assumed at 15% of ICU and HC bed days allowing for both COVID-19 and PUI admissions. This is based on actual experience in the private hospitals.

Oxygen requirements is assumed at 23% of Admissions, this is based on actual experience.



Projected Ventilators & Oxygen Required Assumptions

Apr 2020

Including PUI beds (Crude estimate)

| Expected Max ICU Beds Needed | 263 |
|---|--------|
| Expected Max High Care Beds Needed | 268 |
| Expected MaxVentilators Needed | 80 |
| Expected Total Hospital Bed Days Needed | 32 209 |
| Expected Max Hospitalisations Needed | 1 402 |
| Expected Deaths at end April | 131 |
| Expected Max Oxygen Needed | 322 |

May 2020

Including PUI beds (Crude estimate)

| Expected Max ICU Beds Needed | 493 |
|---|--------|
| Expected Max High Care Beds Needed | 477 |
| Expected MaxVentilators Needed | 146 |
| Expected Total Hospital Bed Days Needed | 60 492 |
| Expected Max Hospitalisations Needed | 2 638 |
| Expected Deaths at end May | 419 |
| Expected Max Oxygen Needed | 607 |

Projected Ventilators & Oxygen Required Assumptions

| Jun-20 | Including PUI beds (Crude estimate) |
|--|---|
| Expected Max ICU Beds Needed | 1 585 |
| Expected Max High Care Beds Needed | 1 240 |
| Expected MaxVentilators Needed | 424 |
| Expected Total Hospital Bed Days Needed | 139 622 |
| Expected Max Hospitalisations Needed | 9 152 |
| Expected Deaths at end June | 978 |
| Expected Max Oxygen Needed | 2 105 |
| Jul-20 | |
| | Including PUI |

Including PUI beds (Crude estimate)

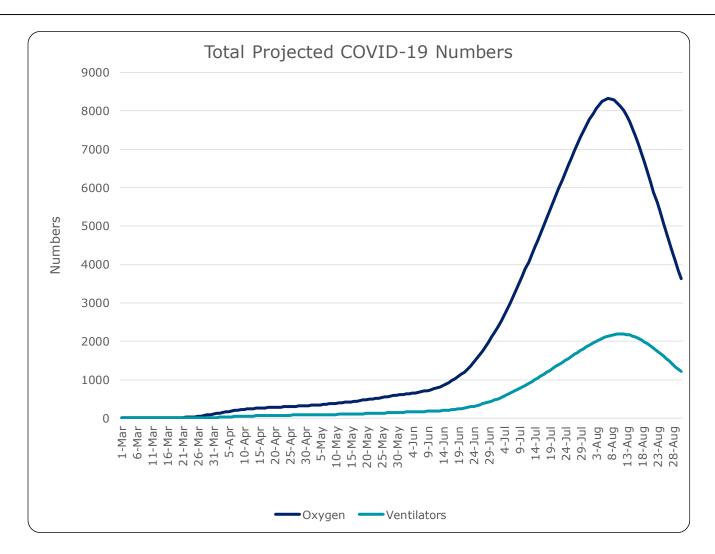
| Expected Max ICU Beds Needed | 6 232 |
|--|---------|
| Expected Max High Care Beds Needed | 5 751 |
| Expected MaxVentilators Needed | 1 797 |
| Expected Total Hospital Bed Days Needed | 656 372 |
| Expected Max Hospitalisations Needed | 33 185 |
| Expected Deaths at end July | 3 563 |
| Expected Max Oxygen Needed | 7 632 |

Aug-20

Including PUI beds (Crude estimate)

| Expected Max ICU Beds Needed | 7 049 |
|---|---------|
| Expected Max High Care Beds Needed | 7 499 |
| Expected MaxVentilators Needed | 2 182 |
| Expected Total Hospital Bed Days Needed | 907 124 |
| Expected Max Hospitalisations Needed | 36 170 |
| Expected Deaths at end Aug | 9 115 |
| Expected Max Oxygen Needed | 8 319 |

Projected Ventilators & Oxygen Required Assumptions



Projected PPE Required Assumptions

Assumed demand for PPE based on admissions for PUI and COVID-19 admissions.

These are the estimated requirements per bed per day.

| | Rounded number |
|------------------|------------------|
| | per occupied bed |
| | per day |
| N-95 masks | 25 |
| Surgical masks | 120 |
| Eye/face Shields | 35 |
| Gowns | 55 |
| Gloves | 10 |
| Testing swabs | 2 |

Source: Deloitte estimate

| Apr 2020 | |
|---|-----------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 805 217 |
| Surgical masks | 3 865 044 |
| Eye/face Shields | 1 127 304 |
| Gowns | 1 771 478 |
| Gloves | 322 087 |
| Testing swabs | 64 417 |

May 2020

Jun 2020

| May 2020 | |
|---|-----------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 1 512 303 |
| Surgical masks | 7 259 054 |
| Eye/face Shields | 2 117 224 |
| Gowns | 3 327 067 |
| Gloves | 604 921 |
| Testing swabs | 120 984 |

| Juli 2020 | |
|---|------------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 3 490 542 |
| Surgical masks | 16 754 602 |
| Eye/face Shields | 4 886 759 |
| Gowns | 7 679 193 |
| Gloves | 1 396 217 |
| Testing swabs | 279 243 |

Projected PPE Required Assumptions

| Apr 2020 | |
|---|-----------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 805 217 |
| Surgical masks | 3 865 044 |
| Eye/face Shields | 1 127 304 |
| Gowns | 1 771 478 |
| Gloves | 322 087 |
| Testing swabs | 64 417 |

| Jun 2020 | |
|---|------------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 3 490 542 |
| Surgical masks | 16 754 602 |
| Eye/face Shields | 4 886 759 |
| Gowns | 7 679 193 |
| Gloves | 1 396 217 |
| Testing swabs | 279 243 |

| May 2020 | |
|---|-----------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 1 512 303 |
| Surgical masks | 7 259 054 |
| Eye/face Shields | 2 117 224 |
| Gowns | 3 327 067 |
| Gloves | 604 921 |
| Testing swabs | 120 984 |
| | |

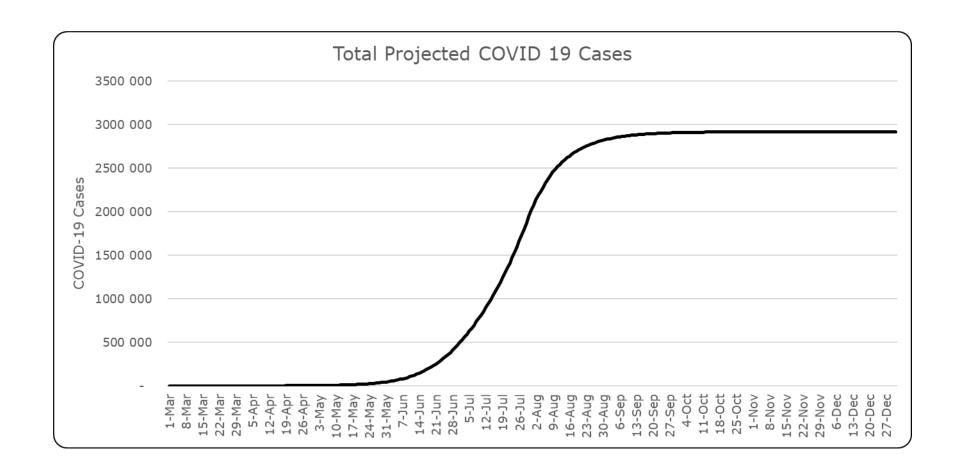
| | Jul 2020 | |
|---|---|------------|
| _ | Expected number based on Hospital Days | Modelled |
| | N-95 masks | 16 409 300 |
| | Surgical masks | 78 764 639 |
| | Eye/face Shields | 22 973 020 |
| | Gowns | 36 100 460 |
| | Gloves | 6 563 720 |
| | Testing swabs | 1 312 744 |

Tul 2020



Model Results

Infections Projected



Projected Ventilators Required Assumptions

We now also considered PUI (patients under investigation) admissions, based on the experience in the private hospitals.

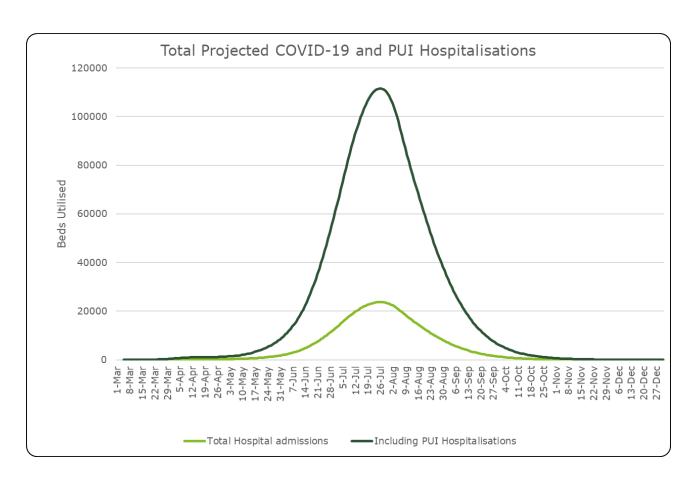
PUI Adjustment:

GW 6.20968 HC 3.496 ICU 2.812676

This gives a more accurate indication of the number of beds occupied.

Ventilator requirements is assumed at 15% of ICU and HC bed days allowing for both COVID-19 and PUI admissions. This is based on actual experience in the private hospitals.

Oxygen requirements is assumed at 23% of Admissions, this is based on actual experience.



Projected Ventilators & Oxygen Required Assumptions

| Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 10 19 19 19 19 19 19 19 19 19 19 19 19 19 | lun | -20 |
|--|---|-------------|
| beds (Crude estimate) Expected Max ICU Beds Needed 10 19 Expected Max High Care Beds Needed 2 86 Expected MaxVentilators Needed 837 80 Expected Max Hospital Bed Days Needed 837 80 Expected Max Hospitalisations Needed 58 19 Expected Deaths at end June 3 59 Expected Max Oxygen Needed 13 3 3 Jul-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 2 50 07 Expected Max High Care Beds Needed 5 99 Expected Max Hospital Bed Days Needed 111 59 Expected Max Hospital Bed Days Needed 111 59 Expected Max Hospitalisations Needed 2 50 66 Aug-20 Including PUI beds (Crude estimate) 1 8 20 Expected Max Hospitalisations Needed 2 9 57 90 Expected Max Oxygen Needed 2 5 66 Expected Max Oxygen Needed 2 5 66 Expected Max ICU Beds Needed 2 9 57 90 Expected Max Oxygen Needed 2 5 66 Expected Max Oxygen Needed 2 5 66 Expected Max ICU Beds Needed 2 9 48 Expected Max ICU Beds Needed 2 9 48 Expected Max High Care Beds Needed 2 9 5 20 Expected Max High Care Beds Needed 2 9 5 20 Expected Max Ventilators Needed 6 8 9 20 48 Expected Max High Care Beds Needed 2 9 5 20 Expected Max High Care Beds Needed 2 9 5 20 Expected MaxVentilators Needed 6 8 9 20 48 Expected MaxVentilators Needed 6 9 20 48 Expected MaxVentilators Needed 6 9 20 48 Expected MaxVentilators Ne | Juli | |
| Expected Max ICU Beds Needed 10 15 Expected Max High Care Beds Needed 8 95 Expected MaxVentilators Needed 2 86 Expected Total Hospital Bed Days Needed 837 86 Expected Deaths at end June 3 55 Expected Max Oxygen Needed 13 3 37 Jul-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 2 5 0 7 Expected Max High Care Beds Needed 2 9 57 96 Expected Max Hospital Bed Days Needed 2 11 56 Expected Max Hospital Bed Days Needed 11 1 56 Expected Max Oxygen Needed 2 5 66 Aug-20 Including PUI beds (Crude estimate) Expected Max Hospital Bed Days Needed 2 9 57 96 Expected Deaths at end July 18 20 Expected Max Oxygen Needed 2 5 66 Aug-20 Expected Max ICU Beds Needed 2 9 48 Expected Max High Care Beds Needed 2 9 48 Expected Max High Care Beds Needed 2 9 48 Expected Max High Care Beds Needed 2 9 52 Expected Max High Care Beds Needed 2 9 52 Expected Max High Care Beds Needed 2 9 52 Expected Max High Care Beds Needed 2 9 52 Expected Max High Care Beds Needed 2 9 52 Expected Max High Care Beds Needed 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | | _ |
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| Expected Max Oxygen Needed Jul-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed Expected Max High Care Beds Needed Expected MaxVentilators Needed Expected Max Hospital Bed Days Needed Expected Deaths at end July Expected Max Oxygen Needed Aug-20 Including PUI beds (Crude estimate) Expected Max Hospitalisations Needed Expected Deaths at end July Including PUI beds (Crude estimate) Expected Max ICU Beds Needed Expected Max ICU Beds Needed Expected Max ICU Beds Needed Expected Max High Care Beds Needed Expected Max High Care Beds Needed Expected MaxVentilators Needed Expected MaxVentilators Needed Expected Total Hospital Bed Days Needed Expected Total Hospital Bed Days Needed | | 58 15 |
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| Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 21 04 25 07 25 07 25 25 20 25 | Expected Max Oxygen Needed | 13 37 |
| Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 21 04 25 07 25 07 25 25 20 25 | | |
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| Expected Max ICU Beds Needed 25 07 Expected Max High Care Beds Needed 25 07 Expected MaxVentilators Needed 2 957 90 Expected Total Hospital Bed Days Needed 2 957 90 Expected Max Hospitalisations Needed 111 59 Expected Deaths at end July 18 20 Expected Max Oxygen Needed 25 66 Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected Max High Care Beds Needed 25 20 Expected MaxVentilators Needed 6 88 Expected Total Hospital Bed Days Needed 2 175 29 | | beds (Crude |
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| Expected Total Hospital Bed Days Needed 2 957 90 Expected Max Hospitalisations Needed 111 50 Expected Deaths at end July 18 20 Expected Max Oxygen Needed 25 66 Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected Max High Care Beds Needed 25 20 Expected MaxVentilators Needed 6 85 Expected Total Hospital Bed Days Needed 2 175 29 | Expected Max High Care Beds Needed | 25 07 |
| Expected Max Hospitalisations Needed 111 59 Expected Deaths at end July 18 20 Expected Max Oxygen Needed 25 66 Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected Max High Care Beds Needed 25 20 Expected MaxVentilators Needed 6 89 Expected Total Hospital Bed Days Needed 2 175 29 | Expected MaxVentilators Needed | 6 918 |
| Expected Deaths at end July Expected Max Oxygen Needed Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed Expected Max High Care Beds Needed Expected MaxVentilators Needed Expected Total Hospital Bed Days Needed 2 175 29 | Expected Total Hospital Bed Days Needed | 2 957 90 |
| Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed Expected Max High Care Beds Needed Expected MaxVentilators Needed Expected Total Hospital Bed Days Needed 25 66 Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected MaxVentilators Needed 21 75 29 | Expected Max Hospitalisations Needed | 111 59 |
| Aug-20 Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected Max High Care Beds Needed 25 20 Expected MaxVentilators Needed 6 88 Expected Total Hospital Bed Days Needed 2 175 29 | Expected Deaths at end July | 18 207 |
| Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected Max High Care Beds Needed 25 20 Expected MaxVentilators Needed 6 88 Expected Total Hospital Bed Days Needed 2 175 29 | Expected Max Oxygen Needed | 25 66 |
| Including PUI beds (Crude estimate) Expected Max ICU Beds Needed 20 48 Expected Max High Care Beds Needed 25 20 Expected MaxVentilators Needed 6 88 Expected Total Hospital Bed Days Needed 2 175 29 | | 20 |
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| Expected Max High Care Beds Needed25 20Expected MaxVentilators Needed6 85Expected Total Hospital Bed Days Needed2 175 29 | Expected Max ICU Beds Needed | |
| Expected MaxVentilators Needed 6 85 Expected Total Hospital Bed Days Needed 2 175 29 | | 25 20 |
| Expected Total Hospital Bed Days Needed 2 175 29 | • | 6 85 |
| | | 2 175 29 |
| | Expected Max Hospitalisations Needed | 107 118 |

Expected Deaths at end Aug

Expected Max Oxygen Needed

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34 804

24 637

16

Projected PPE Required Assumptions

Assumed demand for PPE based on admissions for PUI and COVID-19 admissions.

These are the estimated requirements per bed per day.

| | Rounded number | |
|------------------|------------------|--|
| | per occupied bed | |
| | per day | |
| N-95 masks | 25 | |
| Surgical masks | 120 | |
| Eye/face Shields | 35 | |
| Gowns | 55 | |
| Gloves | 10 | |
| Testing swabs | 2 | |

Source: Deloitte estimate

| Apr 2020 | |
|--|-----------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 745 623 |
| Surgical masks | 3 578 990 |
| Eye/face Shields | 1 043 872 |
| Gowns | 1 640 370 |
| Gloves | 298 249 |
| Testing swabs | 59 650 |

| May 2020 | |
|--|------------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 2 821 954 |
| Surgical masks | 13 545 381 |
| Eye/face Shields | 3 950 736 |
| Gowns | 6 208 300 |
| Gloves | 1 128 782 |
| Testing swabs | 225 756 |

| Jun 202 | 0 |
|--|-------------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 20 945 172 |
| Surgical masks | 100 536 823 |
| Eye/face Shields | 29 323 240 |
| Gowns | 46 079 377 |
| Gloves | 8 378 069 |
| Testing swabs | 1 675 614 |

Projected PPE Required Assumptions

| Jul 2020 | |
|---|-------------|
| Expected number based on Hospital Days | Modelled |
| N-95 masks | 73 947 665 |
| Surgical masks | 354 948 794 |
| Eye/face Shields | 103 526 731 |
| Gowns | 162 684 864 |
| Gloves | 29 579 066 |
| Testing swabs | 5 915 813 |

Model Results

Cumulative Projected Deaths

