**Supplementary file 3.** Excess death calculations based on OWID database.

|  |  |  |  |
| --- | --- | --- | --- |
|  | Scenario 1 | Scenario 2 | Scenario 3 |
| Transfused | 42.59% | 50% | 0% |
| **Week** | **Expected Deaths** | **Difference** | **Expected Deaths** | **Difference** | **Expected Deaths** | **Difference** |
| 8/8/2020 | 6048.24 | 1372.76 | 5652.48 | 1768.52 | 8322.97 | -901.97 |
| 8/15/2020 | 6922.10 | 203.90 | 6469.15 | 656.85 | 9525.48 | -2399.48 |
| 8/22/2020 | 5999.39 | 711.61 | 5606.82 | 1104.18 | 8255.75 | -1544.75 |
| 8/29/2020 | 5706.66 | 602.34 | 5333.25 | 975.75 | 7852.92 | -1543.92 |
| 9/5/2020 | 5469.47 | 385.53 | 5111.58 | 743.42 | 7526.53 | -1671.53 |
| 9/12/2020 | 5388.78 | -263.78 | 5036.17 | 88.83 | 7415.49 | -2290.49 |
| 9/19/2020 | 4887.81 | 460.19 | 4567.97 | 780.03 | 6726.10 | -1378.10 |
| 9/26/2020 | 5130.24 | 308.76 | 4794.54 | 644.46 | 7059.71 | -1620.71 |
| 10/3/2020 | 4329.12 | 609.88 | 4045.84 | 893.16 | 5957.29 | -1018.29 |
| 10/10/2020 | 4499.73 | 673.27 | 4205.29 | 967.71 | 6192.06 | -1019.06 |
| 10/17/2020 | 4988.94 | 233.06 | 4662.49 | 559.51 | 6865.27 | -1643.27 |
| 10/24/2020 | 6089.31 | -276.31 | 5690.86 | 122.14 | 8379.49 | -2566.49 |
| 10/31/2020 | 6700.83 | -688.83 | 6262.36 | -250.36 | 9221.00 | -3209.00 |
| 11/7/2020 | 7408.06 | -105.06 | 6923.31 | 379.69 | 10194.21 | -2891.21 |
| 11/14/2020 | 8410.37 | -253.37 | 7860.04 | 296.96 | 11573.49 | -3416.49 |
| 11/21/2020 | 10293.77 | 825.23 | 9620.20 | 1498.80 | 14165.24 | -3046.24 |
| 11/28/2020 | 12850.57 | -2034.57 | 12009.69 | -1193.69 | 17683.64 | -6867.64 |
| 12/5/2020 | 14807.61 | 1229.39 | 13838.68 | 2198.32 | 20376.72 | -4339.72 |
| 12/12/2020 | 15717.11 | 2189.89 | 14688.66 | 3218.34 | 21628.28 | -3721.28 |
| 12/19/2020 | 17115.82 | 2131.18 | 15995.85 | 3251.15 | 23553.04 | -4306.04 |
| 12/26/2020 | 18391.33 | -2023.33 | 17187.89 | -819.89 | 25308.26 | -8940.26 |
| 1/9/2021 | 18996.70 | -90.70 | 17753.65 | 1152.35 | 26141.30 | -7235.30 |
| 1/16/2021 | 19240.22 | 3867.78 | 17981.23 | 5126.77 | 26476.41 | -3368.41 |
| 1/23/2021 | 20325.75 | 3440.25 | 18995.74 | 4770.26 | 27970.22 | -4204.22 |
| 1/30/2021 | 21057.77 | 848.23 | 19679.85 | 2226.15 | 28977.54 | -7071.54 |
| 2/6/2021 | 19676.24 | 2531.76 | 18388.72 | 3819.28 | 27076.42 | -4868.42 |
| 2/13/2021 | 17004.92 | 3732.08 | 15892.20 | 4844.80 | 23400.42 | -2663.42 |
| 2/20/2021 | 14583.63 | 2833.37 | 13629.35 | 3787.65 | 20068.50 | -2651.50 |
| 2/27/2021 | 12499.40 | 728.60 | 11681.50 | 1546.50 | 17200.39 | -3972.39 |
| 3/6/2021 | 10062.92 | 3717.08 | 9404.45 | 4375.55 | 13847.55 | -67.55 |
|  |  |  |  |  |  |  |
| **Excess Deaths1** |  | **37,363.18** |  | **60,294.31** |  | **94,436.69** |

1Excess deaths (difference column) was calculated by subtracting observed deaths in OWID database minus expected deaths according to the linear regression model. The reason the last column in the table includes many negative numbers is because in the absence of plasma increased deaths would have been expected resulting in 94,436 additional deaths.