**Appendix 2: Calculating the call ratios:**

A) Call-to-hospitalization ratio model:

To estimate the weekly number of phone calls to a national NTL, we used the following basic formula:

Number of calls week n for a given population = (Number of influenza cases week n x severity-specific hospitalization rate x Call-to-Hospitalization Ratio)

Where:

i) The number of influenza cases, for a given population, is determined by the chosen pandemic scenario (e.g., 20% or 30% attack rate, and a starting number of cases of either 10 or 100; See Appendix 4).

ii) Severity-specific hospitalization rate: The hospitalization rate is determined by chosen severity level of 1, 2, 3 or 4. (Table 1 in main text provides values).

iii) Call-to-Hospitalization Ratio: See Appendix 5 for the calculated call-to-hospitalization ratios (CHR). We used the 25th and 75th percentiles of the CHR calculated from the Minnesota data (see main text for further details).

**Appendix 3**: Tables of weekly number of telephone calls to a national Nurse Triage Line, by clinical attack rate (20% or 30%), and pandemic severity (1968-like or 1957-like)

**Table A1:** Weekly number of calls to a national Nurse Triage Line (20% attack rate; 1957-like pandemic)†

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pandemic Week | Total calls | |  | Information-only calls | |  | Symptomatic calls | |  | Calls ended after recorded message or ended prematurely | |
|  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate |
| 1 | 119 | 289 |  | 48 | 116 |  | 45 | 108 |  | 27 | 65 |
| 2 | 194 | 470 |  | 78 | 189 |  | 73 | 176 |  | 43 | 105 |
| 3 | 343 | 831 |  | 138 | 334 |  | 128 | 311 |  | 77 | 186 |
| 4 | 731 | 1,771 |  | 294 | 712 |  | 274 | 662 |  | 164 | 397 |
| 5 | 1,298 | 3,145 |  | 522 | 1,264 |  | 486 | 1,176 |  | 291 | 704 |
| 6 | 2,537 | 6,146 |  | 1,020 | 2,470 |  | 949 | 2,298 |  | 568 | 1,377 |
| 7 | 4,866 | 11,785 |  | 1,956 | 4,738 |  | 1,820 | 4,408 |  | 1,090 | 2,640 |
| 8 | 9,283 | 22,485 |  | 3,732 | 9,039 |  | 3,472 | 8,410 |  | 2,079 | 5,037 |
| 9 | 17,701 | 42,874 |  | 7,116 | 17,235 |  | 6,620 | 16,035 |  | 3,965 | 9,604 |
| 10 | 33,805 | 81,880 |  | 13,590 | 32,916 |  | 12,643 | 30,623 |  | 7,572 | 18,341 |
| 11 | 64,192 | 155,481 |  | 25,805 | 62,503 |  | 24,008 | 58,150 |  | 14,379 | 34,828 |
| 12 | 121,579 | 294,478 |  | 48,875 | 118,380 |  | 45,471 | 110,135 |  | 27,234 | 65,963 |
| 13 | 227,845 | 551,866 |  | 91,594 | 221,850 |  | 85,214 | 206,398 |  | 51,037 | 123,618 |
| 14 | 419,407 | 1,015,851 |  | 168,602 | 408,372 |  | 156,858 | 379,928 |  | 93,947 | 227,551 |
| 15 | 747,310 | 1,810,067 |  | 300,418 | 727,647 |  | 279,494 | 676,965 |  | 167,397 | 405,455 |
| 16 | 1,257,998 | 3,047,011 |  | 505,715 | 1,224,899 |  | 470,491 | 1,139,582 |  | 281,792 | 682,531 |
| 17 | 1,929,997 | 4,674,665 |  | 775,859 | 1,879,215 |  | 721,819 | 1,748,325 |  | 432,319 | 1,047,125 |
| 18 | 2,584,100 | 6,258,975 |  | 1,038,808 | 2,516,108 |  | 966,453 | 2,340,857 |  | 578,838 | 1,402,010 |
| 19 | 2,909,778 | 7,047,804 |  | 1,169,731 | 2,833,217 |  | 1,088,257 | 2,635,879 |  | 651,790 | 1,578,708 |
| 20 | 2,720,469 | 6,589,277 |  | 1,093,629 | 2,648,890 |  | 1,017,456 | 2,464,390 |  | 609,385 | 1,475,998 |
| 21 | 2,151,767 | 5,211,818 |  | 865,010 | 2,095,151 |  | 804,761 | 1,949,220 |  | 481,996 | 1,167,447 |
| 22 | 1,496,679 | 3,625,122 |  | 601,665 | 1,457,299 |  | 559,758 | 1,355,796 |  | 335,256 | 812,027 |
| 23 | 953,513 | 2,309,515 |  | 383,312 | 928,425 |  | 356,614 | 863,759 |  | 213,587 | 517,331 |
| 24 | 575,090 | 1,392,932 |  | 231,186 | 559,959 |  | 215,084 | 520,956 |  | 128,820 | 312,017 |
| 25 | 335,589 | 812,833 |  | 134,907 | 326,759 |  | 125,510 | 303,999 |  | 75,172 | 182,075 |
| 26 | 192,174 | 465,467 |  | 77,254 | 187,118 |  | 71,873 | 174,085 |  | 43,047 | 104,265 |
| 27 | 108,863 | 263,678 |  | 43,763 | 105,999 |  | 40,715 | 98,616 |  | 24,385 | 59,064 |
| 28 | 61,252 | 148,360 |  | 24,623 | 59,641 |  | 22,908 | 55,486 |  | 13,720 | 33,233 |
| 29 | 34,387 | 83,290 |  | 13,824 | 33,482 |  | 12,861 | 31,150 |  | 7,703 | 18,657 |
| 30 | 19,268 | 46,670 |  | 7,746 | 18,761 |  | 7,206 | 17,454 |  | 4,316 | 10,454 |
| 31 | 10,761 | 26,064 |  | 4,326 | 10,478 |  | 4,025 | 9,748 |  | 2,410 | 5,838 |
| 32 | 6,000 | 14,532 |  | 2,412 | 5,842 |  | 2,244 | 5,435 |  | 1,344 | 3,255 |
| 33 | 3,373 | 8,170 |  | 1,356 | 3,284 |  | 1,262 | 3,056 |  | 756 | 1,830 |
| 34 | 1,881 | 4,555 |  | 756 | 1,831 |  | 703 | 1,704 |  | 421 | 1,020 |
| 35 | 1,030 | 2,494 |  | 414 | 1,003 |  | 385 | 933 |  | 231 | 559 |
| 36 | 597 | 1,446 |  | 240 | 581 |  | 223 | 541 |  | 134 | 324 |
| 37 | 328 | 795 |  | 132 | 320 |  | 123 | 297 |  | 74 | 178 |
| 38 | 194 | 470 |  | 78 | 189 |  | 73 | 176 |  | 43 | 105 |
| 39 | 104 | 253 |  | 42 | 102 |  | 39 | 95 |  | 23 | 57 |
| 40 | 90 | 217 |  | 36 | 87 |  | 33 | 81 |  | 20 | 49 |
| 41 | 15 | 36 |  | 6 | 15 |  | 6 | 14 |  | 3 | 8 |

† Modeling methods: Using a seed starting of 10 cases, duration of pandemic lasts up t0 45 weeks for a 20% attack rate (Appendix 4). Estimates based on US population size of approximately 323 million (Table 1).

††1957-like pandemic (Table 1).

\* Low and High estimates for call-to-hospitalization ratio model (CHR) derived from lower and upper estimates of hospitalization rates, which depends upon influenza severity rate, or pandemic type (Table 1).

**Table A2:** Weekly number of calls to a national Nurse Triage Line (30% attack rate; 1957-like pandemic)†

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pandemic Week | Total calls | |  | Information-only calls | |  | Symptomatic calls | |  | Calls ended after recorded message or ended prematurely | |
|  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate | |
| 1 | 358 | 868 |  | 144 | 349 |  | 134 | 324 |  | 80 | 194 | |
| 2 | 1,015 | 2,458 |  | 408 | 988 |  | 380 | 919 |  | 227 | 551 | |
| 3 | 3,224 | 7,808 |  | 1,296 | 3,139 |  | 1,206 | 2,920 |  | 722 | 1,749 | |
| 4 | 10,194 | 24,690 |  | 4,098 | 9,926 |  | 3,812 | 9,234 |  | 2,283 | 5,531 | |
| 5 | 31,820 | 77,072 |  | 12,792 | 30,983 |  | 11,901 | 28,825 |  | 7,128 | 17,264 | |
| 6 | 99,012 | 239,819 |  | 39,803 | 96,407 |  | 37,031 | 89,692 |  | 22,179 | 53,719 | |
| 7 | 304,888 | 738,472 |  | 122,565 | 296,866 |  | 114,028 | 276,189 |  | 68,295 | 165,418 | |
| 8 | 908,156 | 2,199,655 |  | 365,079 | 884,261 |  | 339,650 | 822,671 |  | 203,427 | 492,723 | |
| 9 | 2,459,924 | 5,958,207 |  | 988,889 | 2,395,199 |  | 920,011 | 2,228,369 |  | 551,023 | 1,334,638 | |
| 10 | 5,270,152 | 12,764,890 |  | 2,118,601 | 5,131,486 |  | 1,971,037 | 4,774,069 |  | 1,180,514 | 2,859,335 | |
| 11 | 7,321,892 | 17,734,431 |  | 2,943,400 | 7,129,241 |  | 2,738,387 | 6,632,677 |  | 1,640,104 | 3,972,513 | |
| 12 | 6,002,492 | 14,538,699 |  | 2,413,002 | 5,844,557 |  | 2,244,932 | 5,437,473 |  | 1,344,558 | 3,256,668 | |
| 13 | 3,267,754 | 7,914,862 |  | 1,313,637 | 3,181,774 |  | 1,222,140 | 2,960,158 |  | 731,977 | 1,772,929 | |
| 14 | 1,434,576 | 3,474,702 |  | 576,700 | 1,396,830 |  | 536,531 | 1,299,538 |  | 321,345 | 778,333 | |
| 15 | 575,762 | 1,394,559 |  | 231,456 | 560,613 |  | 215,335 | 521,565 |  | 128,971 | 312,381 | |
| 16 | 223,203 | 540,623 |  | 89,728 | 217,331 |  | 83,478 | 202,193 |  | 49,998 | 121,100 | |
| 17 | 85,401 | 206,850 |  | 34,331 | 83,154 |  | 31,940 | 77,362 |  | 19,130 | 46,334 | |
| 18 | 32,507 | 78,735 |  | 13,068 | 31,651 |  | 12,157 | 29,447 |  | 7,281 | 17,637 | |
| 19 | 12,343 | 29,896 |  | 4,962 | 12,018 |  | 4,616 | 11,181 |  | 2,765 | 6,697 | |
| 20 | 4,701 | 11,387 |  | 1,890 | 4,578 |  | 1,758 | 4,259 |  | 1,053 | 2,551 | |
| 21 | 1,791 | 4,338 |  | 720 | 1,744 |  | 670 | 1,622 |  | 401 | 972 | |
| 22 | 687 | 1,663 |  | 276 | 668 |  | 257 | 622 |  | 154 | 372 | |
| 23 | 254 | 615 |  | 102 | 247 |  | 95 | 230 |  | 57 | 138 | |
| 24 | 90 | 217 |  | 36 | 87 |  | 33 | 81 |  | 20 | 49 | |
| 25 | 15 | 36 |  | 6 | 15 |  | 6 | 14 |  | 3 | 8 | |
| 26 | 15 | 36 |  | 6 | 15 |  | 6 | 14 |  | 3 | 8 | |

† Modeling methods: Using a seed starting of 10 cases, duration of pandemic lasts up t0 32 weeks for a 30% attack rate (Appendix 4). Estimates based on US population size of approximately 323 million (Table 1).

††1957-like pandemic (Table 1).

\* Low and High estimates for call-to-hospitalization ratio model (CHR) derived from lower and upper estimates of hospitalization rates, which depends upon influenza severity rate, or pandemic type (Table 1).

**Table A3:** Weekly number of calls to a national Nurse Triage Line (20% attack rate; 1968-like pandemic)†

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pandemic Week | Total calls | |  | Information-only calls | |  | Symptomatic calls | |  | Calls ended after recorded message or ended prematurely | |
|  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate |
| 1 | 64 | 145 |  | 26 | 58 |  | 24 | 54 |  | 14 | 32 |
| 2 | 103 | 235 |  | 42 | 94 |  | 39 | 88 |  | 23 | 53 |
| 3 | 183 | 416 |  | 74 | 167 |  | 68 | 155 |  | 41 | 93 |
| 4 | 390 | 886 |  | 157 | 356 |  | 146 | 331 |  | 87 | 198 |
| 5 | 693 | 1,573 |  | 278 | 632 |  | 259 | 588 |  | 155 | 352 |
| 6 | 1,353 | 3,073 |  | 544 | 1,235 |  | 506 | 1,149 |  | 303 | 688 |
| 7 | 2,595 | 5,892 |  | 1,043 | 2,369 |  | 971 | 2,204 |  | 581 | 1,320 |
| 8 | 4,951 | 11,243 |  | 1,990 | 4,520 |  | 1,852 | 4,205 |  | 1,109 | 2,518 |
| 9 | 9,441 | 21,437 |  | 3,795 | 8,618 |  | 3,531 | 8,017 |  | 2,115 | 4,802 |
| 10 | 18,029 | 40,940 |  | 7,248 | 16,458 |  | 6,743 | 15,312 |  | 4,039 | 9,171 |
| 11 | 34,236 | 77,741 |  | 13,763 | 31,252 |  | 12,804 | 29,075 |  | 7,669 | 17,414 |
| 12 | 64,842 | 147,239 |  | 26,067 | 59,190 |  | 24,251 | 55,067 |  | 14,525 | 32,982 |
| 13 | 121,517 | 275,933 |  | 48,850 | 110,925 |  | 45,447 | 103,199 |  | 27,220 | 61,809 |
| 14 | 223,684 | 507,926 |  | 89,921 | 204,186 |  | 83,658 | 189,964 |  | 50,105 | 113,775 |
| 15 | 398,565 | 905,033 |  | 160,223 | 363,823 |  | 149,063 | 338,482 |  | 89,279 | 202,727 |
| 16 | 670,932 | 1,523,506 |  | 269,715 | 612,449 |  | 250,929 | 569,791 |  | 150,289 | 341,265 |
| 17 | 1,029,331 | 2,337,332 |  | 413,791 | 939,608 |  | 384,970 | 874,162 |  | 230,570 | 523,562 |
| 18 | 1,378,186 | 3,129,487 |  | 554,031 | 1,258,054 |  | 515,442 | 1,170,428 |  | 308,714 | 701,005 |
| 19 | 1,551,882 | 3,523,902 |  | 623,856 | 1,416,609 |  | 580,404 | 1,317,939 |  | 347,621 | 789,354 |
| 20 | 1,450,917 | 3,294,639 |  | 583,269 | 1,324,445 |  | 542,643 | 1,232,195 |  | 325,005 | 737,999 |
| 21 | 1,147,609 | 2,605,909 |  | 461,339 | 1,047,575 |  | 429,206 | 974,610 |  | 257,064 | 583,724 |
| 22 | 798,229 | 1,812,561 |  | 320,888 | 728,650 |  | 298,538 | 677,898 |  | 178,803 | 406,014 |
| 23 | 508,541 | 1,154,758 |  | 204,433 | 464,213 |  | 190,194 | 431,879 |  | 113,913 | 258,666 |
| 24 | 306,715 | 696,466 |  | 123,299 | 279,979 |  | 114,711 | 260,478 |  | 68,704 | 156,008 |
| 25 | 178,981 | 406,416 |  | 71,950 | 163,379 |  | 66,939 | 152,000 |  | 40,092 | 91,037 |
| 26 | 102,493 | 232,734 |  | 41,202 | 93,559 |  | 38,332 | 87,042 |  | 22,958 | 52,132 |
| 27 | 58,060 | 131,839 |  | 23,340 | 52,999 |  | 21,715 | 49,308 |  | 13,005 | 29,532 |
| 28 | 32,668 | 74,180 |  | 13,132 | 29,820 |  | 12,218 | 27,743 |  | 7,318 | 16,616 |
| 29 | 18,340 | 41,645 |  | 7,373 | 16,741 |  | 6,859 | 15,575 |  | 4,108 | 9,328 |
| 30 | 10,276 | 23,335 |  | 4,131 | 9,381 |  | 3,843 | 8,727 |  | 2,302 | 5,227 |
| 31 | 5,739 | 13,032 |  | 2,307 | 5,239 |  | 2,146 | 4,874 |  | 1,286 | 2,919 |
| 32 | 3,200 | 7,266 |  | 1,286 | 2,921 |  | 1,197 | 2,718 |  | 717 | 1,628 |
| 33 | 1,799 | 4,085 |  | 723 | 1,642 |  | 673 | 1,528 |  | 403 | 915 |
| 34 | 1,003 | 2,277 |  | 403 | 916 |  | 375 | 852 |  | 225 | 510 |
| 35 | 549 | 1,247 |  | 221 | 501 |  | 205 | 466 |  | 123 | 279 |
| 36 | 318 | 723 |  | 128 | 291 |  | 119 | 270 |  | 71 | 162 |
| 37 | 175 | 398 |  | 70 | 160 |  | 65 | 149 |  | 39 | 89 |
| 38 | 103 | 235 |  | 42 | 94 |  | 39 | 88 |  | 23 | 53 |
| 39 | 56 | 127 |  | 22 | 51 |  | 21 | 47 |  | 12 | 28 |
| 40 | 48 | 108 |  | 19 | 44 |  | 18 | 41 |  | 11 | 24 |
| 41 | 8 | 18 |  | 3 | 7 |  | 3 | 7 |  | 2 | 4 |

† Using a seed starting of 10 cases, duration of pandemic lasts up t0 45 weeks for a 20% attack rate (Appendix 4). Estimates based on US population size of approximately 323 million (Table 1).

††1968-like pandemic (Table 1).

\* Low and High estimates for call-to-hospitalization ratio model (CHR) derived from lower and upper estimates of hospitalization rates, which depends upon influenza severity rate, or pandemic type (Table 1).

**Table A4:** Weekly number of calls to a national Nurse Triage Line (30% attack rate; 1968-like pandemic)†

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pandemic Week | Total calls | |  | Information-only calls | |  | Symptomatic calls | |  | Calls ended after recorded message or ended prematurely | |
|  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate |  | Low estimate | High estimate | |
| 1 | 191 | 434 |  | 77 | 174 |  | 71 | 162 |  | 43 | 97 | |
| 2 | 541 | 1,229 |  | 218 | 494 |  | 202 | 460 |  | 121 | 275 | |
| 3 | 1,719 | 3,904 |  | 691 | 1,569 |  | 643 | 1,460 |  | 385 | 875 | |
| 4 | 5,437 | 12,345 |  | 2,186 | 4,963 |  | 2,033 | 4,617 |  | 1,218 | 2,765 | |
| 5 | 16,971 | 38,536 |  | 6,822 | 15,491 |  | 6,347 | 14,412 |  | 3,801 | 8,632 | |
| 6 | 52,807 | 119,910 |  | 21,228 | 48,204 |  | 19,750 | 44,846 |  | 11,829 | 26,860 | |
| 7 | 162,607 | 369,236 |  | 65,368 | 148,433 |  | 60,815 | 138,094 |  | 36,424 | 82,709 | |
| 8 | 484,350 | 1,099,828 |  | 194,709 | 442,131 |  | 181,147 | 411,336 |  | 108,494 | 246,361 | |
| 9 | 1,311,959 | 2,979,103 |  | 527,408 | 1,197,600 |  | 490,673 | 1,114,185 |  | 293,879 | 667,319 | |
| 10 | 2,810,748 | 6,382,445 |  | 1,129,921 | 2,565,743 |  | 1,051,220 | 2,387,034 |  | 629,607 | 1,429,668 | |
| 11 | 3,905,009 | 8,867,215 |  | 1,569,814 | 3,564,621 |  | 1,460,473 | 3,316,339 |  | 874,722 | 1,986,256 | |
| 12 | 3,201,329 | 7,269,349 |  | 1,286,934 | 2,922,278 |  | 1,197,297 | 2,718,737 |  | 717,098 | 1,628,334 | |
| 13 | 1,742,802 | 3,957,431 |  | 700,606 | 1,590,887 |  | 651,808 | 1,480,079 |  | 390,388 | 886,465 | |
| 14 | 765,107 | 1,737,351 |  | 307,573 | 698,415 |  | 286,150 | 649,769 |  | 171,384 | 389,167 | |
| 15 | 307,073 | 697,279 |  | 123,443 | 280,306 |  | 114,845 | 260,782 |  | 68,784 | 156,191 | |
| 16 | 119,042 | 270,312 |  | 47,855 | 108,665 |  | 44,522 | 101,097 |  | 26,665 | 60,550 | |
| 17 | 45,547 | 103,425 |  | 18,310 | 41,577 |  | 17,035 | 38,681 |  | 10,203 | 23,167 | |
| 18 | 17,337 | 39,367 |  | 6,969 | 15,826 |  | 6,484 | 14,723 |  | 3,883 | 8,818 | |
| 19 | 6,583 | 14,948 |  | 2,646 | 6,009 |  | 2,462 | 5,591 |  | 1,475 | 3,348 | |
| 20 | 2,507 | 5,694 |  | 1,008 | 2,289 |  | 938 | 2,129 |  | 562 | 1,275 | |
| 21 | 955 | 2,169 |  | 384 | 872 |  | 357 | 811 |  | 214 | 486 | |
| 22 | 366 | 831 |  | 147 | 334 |  | 137 | 311 |  | 82 | 186 | |
| 23 | 135 | 307 |  | 54 | 124 |  | 51 | 115 |  | 30 | 69 | |
| 24 | 48 | 108 |  | 19 | 44 |  | 18 | 41 |  | 11 | 24 | |
| 25 | 8 | 18 |  | 3 | 7 |  | 3 | 7 |  | 2 | 4 | |
| 26 | 8 | 18 |  | 3 | 7 |  | 3 | 7 |  | 2 | 4 | |

†Using a seed starting of 10 cases, duration of pandemic lasts up t0 32 weeks for a 30% attack rate (Appendix 4). Estimates based on US population size of approximately 323 million (Table 1).

††1968-like pandemic (Table 1).

\* Low and High estimates for call-to-hospitalization ratio model (CHR) derived from lower and upper estimates of hospitalization rates, which depends upon influenza severity rate, or pandemic type (Table 1).

**Appendix 4:** Modeled number of influenza cases by pandemic scenario

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Pandemic scenarios | | | |
|  | 20% Attack Rate | | 30% Attack Rate | |
| **Week** | Seed 10 cases | Seed 100 cases | Seed 10 cases | Seed 100 cases |
| 1 | 15 | 100 | 45 | 2,200 |
| 2 | 25 | 200 | 130 | 1,000 |
| 3 | 50 | 750 | 400 | 3,050 |
| 4 | 100 | 1,450 | 1,200 | 10,250 |
| 5 | 400 | 2,800 | 3,400 | 31,600 |
| 6 | 650 | 5,350 | 10,800 | 98,800 |
| 7 | 1,150 | 10,250 | 34,150 | 307,650 |
| 8 | 2,450 | 19,350 | 106,600 | 948,450 |
| 9 | 4,350 | 37,300 | 331,700 | 2,834,350 |
| 10 | 8,500 | 71,000 | 1,021,400 | 7,752,800 |
| 11 | 16,300 | 135,200 | 3,042,400 | 16,974,050 |
| 12 | 31,100 | 257,100 | 8,240,950 | 24,398,550 |
| 13 | 59,300 | 485,300 | 17,655,450 | 20,682,300 |
| 14 | 113,250 | 906,100 | 24,528,950 | 11,497,600 |
| 15 | 215,050 | 1,655,950 | 20,108,850 | 5,095,350 |
| 16 | 407,300 | 2,912,950 | 10,947,250 | 2,052,550 |
| 17 | 763,300 | 4,798,050 | 4,805,950 | 796,800 |
| 18 | 1,405,050 | 7,120,500 | 1,928,850 | 305,100 |
| 19 | 2,503,550 | 9,113,950 | 747,750 | 116,150 |
| 20 | 4,214,400 | 9,744,850 | 286,100 | 44,100 |
| 21 | 6,465,650 | 8,672,250 | 108,900 | 16,750 |
| 22 | 8,656,950 | 6,590,650 | 41,350 | 6,400 |
| 23 | 9,748,000 | 4,456,350 | 15,750 | 2,350 |
| 24 | 9,113,800 | 2,788,800 | 6,000 | 950 |
| 25 | 7,208,600 | 1,663,350 | 2,300 | 350 |
| 26 | 5,014,000 | 964,700 | 850 | 50 |
| 27 | 3,194,350 | 550,300 | 300 | 0 |
| 28 | 1,926,600 | 311,100 | 50 | 0 |
| 29 | 1,124,250 | 175,000 | 50 | 0 |
| 30 | 643,800 | 98,050 | 0 | 0 |
| 31 | 364,700 | 54,900 | 0 |  |
| 32 | 205,200 | 30,800 |  |  |
| 33 | 115,200 | 17,200 |  |  |
| 34 | 64,550 | 9,550 |  |  |
| 35 | 36,050 | 5,350 |  |  |
| 36 | 20,100 | 3,000 |  |  |
| 37 | 11,300 | 1,650 |  |  |
| 38 | 6,300 | 950 |  |  |
| 39 | 3,450 | 650 |  |  |
| 40 | 2,000 | 300 |  |  |
| 41 | 1,100 | 50 |  |  |
| 42 | 650 |  |  |  |
| 43 | 350 |  |  |  |
| 44 | 300 |  |  |  |
| 45 | 50 |  |  |  |

Source: Adapted from: Gambhir, M. (2013). "Response to an Influenza Pandemic Event " Health Economics and Modeling Unit (HEMU), Centers for Disease Control and Prevention ([8](#_ENREF_8)).

**Appendix 5**: Confirmed pandemic influenza hospitalizations and number of calls to the Minnesota Flu Line: Minnesota, 2009

|  |  |  |  |
| --- | --- | --- | --- |
| **Week** | **Confirmed pandemic influenza hospitalizations (per week)\*** | **Number of calls (per week)** | **Weekly call to hospitalization ratio** |
| 35 | 3 |  |  |
| 36 | 9 |  |  |
| 37 | 12 |  |  |
| 38 | 36 |  |  |
| 39 | 43 |  |  |
| 40 | 104 |  |  |
| 41 | 227 |  |  |
| 42 | 359 | 9,000 | 25.1 |
| 43 | 314 | 6,800 | 21.7 |
| 44 | 227 | 3,800 | 16.7 |
| 45 | 111 | 2,200 | 19.8 |
| 46 | 54 | 1,400 | 25.9 |
| 47 | 28 | 650 | 23.2 |
| 48 | 15 | 300 | 20.0 |
| 49 | 5 |  |  |
| 50 | 6 |  |  |
| 51 | 1 |  |  |
| 52 | 3 |  |  |

\* Confirmed using PCR testing.

Sources:

i) Spaulding AB, et al (4).

ii) Minnesota Department of Health, Influenza Activity - Previous Years available at <http://www.health.state.mn.us/divs/idepc/diseases/flu/stats/weeklyold.html#09> (accessed June 14 2017).