means

| Measure | NO\_V | CU\_V | IE\_V | IB\_V | U\_V |
| --- | --- | --- | --- | --- | --- |
| Total cases | 54559543 (46226406, 63055405) | 37357679 (29998835, 45126133) | 21562873 (14515714, 29491912) | 24458456 (17574075, 32290230) | 16195838 (9075130, 23549526) |
| Total URT infections | 31516774 (7635124, 53264947) | 21586049 (5237289, 36740533) | 12467021 (2830164, 22506937) | 14136634 (3296155, 25234125) | 9376333 (1845928, 17968262) |
| Total out-patient visits by patients with URT infection | 7006116 (2414727, 12922945) | 4362037 (1493703, 8026856) | 2213908 (765907, 4166990) | 2578990 (884340, 4795650) | 1584802 (541707, 3169350) |
| Total LRT infections | 13842865 (955249, 31251740) | 9477655 (683315, 21749650) | 5465753 (379522, 12978766) | 6200720 (433617, 14659256) | 4108145 (275791, 10457334) |
| Total LRT infections that are not hospitalised | 13710233 (812354, 31083969) | 9393020 (586352, 21671291) | 5420759 (346575, 12934906) | 6148780 (395370, 14597519) | 4075226 (243821, 10405374) |
| Total patients with severe illness that are hospitalised | 132632 (58120, 221861) | 84635 (36816, 142943) | 44993 (18338, 81190) | 51940 (21632, 92639) | 32919 (12460, 60613) |
| Total deaths | 14703 (819, 43049) | 9359 (525, 27339) | 4961 (260, 14806) | 5731 (298, 16922) | 3636 (184, 11182) |
| Total lost wages (in USD) due to influenza related illness (non-hospitalised) | 99382679 (4120050, 296908258) | 61816891 (2603687, 185575521) | 31255779 (1189483, 95898178) | 36436361 (1437858, 113834271) | 22268139 (859553, 69474367) |
| Total lost wages (in USD) due to influenza related hospitalisation | 6366513 (349935, 17660170) | 4064551 (213219, 11298562) | 2154072 (103700, 6003547) | 2487089 (123969, 6844912) | 1574832 (71935, 4509646) |
| Total YLD | 13788 (2048, 38972) | 9433 (1451, 26302) | 5449 (822, 15290) | 6181 (951, 17148) | 4091 (618, 12010) |
| Total YLL (undiscounted) | 1362872 (334760, 2849322) | 902564 (212911, 1817665) | 509805 (112964, 970163) | 582463 (130349, 1114459) | 378030 (81230, 737084) |
| Total DALYs (undiscounted) | 1376660 (347640, 2856048) | 911997 (222907, 1824261) | 515254 (116466, 976485) | 588643 (136238, 1124134) | 382122 (82260, 744902) |
| Total YLL (time-discounted) | 685392 (164718, 1383986) | 462480 (110573, 900438) | 268799 (58768, 538264) | 305701 (68449, 602924) | 202234 (43407, 435995) |
| Total DALYs (time-discounted) | 699178 (179798, 1402727) | 471911 (118845, 901868) | 274246 (61351, 553196) | 311881 (72023, 611317) | 206324 (46289, 439258) |

total.costs.dalys.by.year (in millions USD/millions of DALYs)

| Scenario2 | Year | Total Costs | Total DALYs (discounted) | Total DALYs averted (discounted) |
| --- | --- | --- | --- | --- |
| NO\_V | 2,010 | 9,601.09 | 44.14 | 0.00 |
| 2,011 | 26,160.77 | 107.00 | 0.00 |
| 2,012 | 31,598.50 | 133.02 | 0.00 |
| 2,013 | 9,504.54 | 31.08 | 0.00 |
| 2,014 | 18,028.08 | 79.85 | 0.00 |
| 2,015 | 1,894.73 | 9.23 | 0.00 |
| 2,016 | 48,513.08 | 204.68 | 0.00 |
| 2,017 | 2,392.63 | 9.89 | 0.00 |
| 2,018 | 25,573.36 | 77.40 | 0.00 |
| 2,019 | 866.31 | 2.89 | 0.00 |
| CU\_V | 2,010 | 25,052.24 | 14.48 | 29.65 |
| 2,011 | 38,314.46 | 68.81 | 38.19 |
| 2,012 | 49,432.01 | 113.67 | 19.34 |
| 2,013 | 25,833.11 | 8.09 | 22.99 |
| 2,014 | 39,210.55 | 67.54 | 12.30 |
| 2,015 | 26,920.49 | 8.70 | 0.53 |
| 2,016 | 61,613.40 | 157.47 | 47.21 |
| 2,017 | 27,974.92 | 6.79 | 3.11 |
| 2,018 | 34,736.59 | 24.20 | 53.21 |
| 2,019 | 633.13 | 2.16 | 0.73 |
| IE\_V | 2,010 | 24,398.15 | 11.58 | 32.56 |
| 2,011 | 18,155.04 | 37.97 | 69.03 |
| 2,012 | 26,017.88 | 67.51 | 65.51 |
| 2,013 | 13,387.63 | 6.51 | 24.57 |
| 2,014 | 17,094.38 | 27.79 | 52.06 |
| 2,015 | 14,048.03 | 7.49 | 1.74 |
| 2,016 | 33,795.92 | 100.73 | 103.95 |
| 2,017 | 14,451.16 | 5.78 | 4.11 |
| 2,018 | 15,541.67 | 7.94 | 69.47 |
| 2,019 | 192.69 | 0.95 | 1.94 |
| IB\_V | 2,010 | 24,944.96 | 14.20 | 29.94 |
| 2,011 | 20,136.06 | 46.38 | 60.62 |
| 2,012 | 29,873.14 | 83.02 | 50.00 |
| 2,013 | 13,617.86 | 7.21 | 23.87 |
| 2,014 | 18,220.69 | 32.98 | 46.87 |
| 2,015 | 14,084.39 | 7.62 | 1.61 |
| 2,016 | 34,946.22 | 105.34 | 99.33 |
| 2,017 | 14,502.92 | 5.96 | 3.94 |
| 2,018 | 15,634.28 | 8.21 | 69.19 |
| 2,019 | 197.49 | 0.97 | 1.92 |
| U\_V | 2,010 | 24,357.59 | 11.46 | 32.68 |
| 2,011 | 13,471.28 | 33.96 | 73.04 |
| 2,012 | 18,263.54 | 51.14 | 81.88 |
| 2,013 | 9,277.38 | 6.10 | 24.98 |
| 2,014 | 10,723.28 | 15.59 | 64.26 |
| 2,015 | 9,692.54 | 6.82 | 2.41 |
| 2,016 | 22,011.89 | 68.98 | 135.70 |
| 2,017 | 9,915.17 | 5.38 | 4.52 |
| 2,018 | 10,376.64 | 6.02 | 71.38 |
| 2,019 | 168.14 | 0.88 | 2.01 |

all.costs.summ

| Costs | NO\_V | CU\_V | IE\_V | IB\_V | U\_V |
| --- | --- | --- | --- | --- | --- |
| Direct medical costs | 41.83 (11.42, 87.27) | 228.71 (177.43, 289.8) | 125.02 (96.98, 159.75) | 127.2 (98.7, 162.71) | 90.94 (69.87, 116.69) |
| Direct medical costs (excl. vaccine costs) | 41.83 (11.42, 87.27) | 99.93 (48.66, 161.02) | 54.08 (26.04, 88.81) | 56.26 (27.76, 91.77) | 39.27 (18.21, 65.03) |
| Healthcare related costs | 25.91 (3.69, 70.4) | 34.73 (6.36, 83.53) | 18.45 (3.47, 44.18) | 19.8 (3.69, 46.57) | 13.33 (2.54, 31.42) |
| Indirect costs | 106.4 (9.06, 298.64) | 66.28 (5.7, 192.73) | 33.62 (2.83, 99.19) | 39.16 (3.32, 115.68) | 23.99 (2.02, 72.61) |
| Total costs | 174.13 (42.33, 408.19) | 329.72 (221.83, 494.95) | 177.08 (120.37, 263.15) | 186.16 (123.67, 283.71) | 128.26 (88.16, 195.5) |
| Discounted total costs | 154.56 (37.75, 362.87) | 292.8 (196.78, 439.04) | 158.58 (107.87, 236.1) | 167.01 (110.95, 255.46) | 115.85 (79.75, 175.22) |

all.icers.summ

| Costs | NO\_V | CU\_V | IE\_V | IB\_V | U\_V |
| --- | --- | --- | --- | --- | --- |
| Incremental total costs | 0 (0, 0) | 155587816 (59401686, 241390820) | 2949463 (-165888232, 104770930) | 12024916 (-142999231, 108174892) | -45875635 (-235088257, 61866408) |
| Incremental total costs (discounted) | 0 (0, 0) | 138238274 (53087352, 214129669) | 4015696 (-144188065, 94432417) | 12444772 (-124828082, 97310059) | -38713848 (-202994785, 56480683) |
| DALYs averted | 0 (0, 0) | 464663 (108464, 1065367) | 861406 (219558, 1945242) | 788017 (199096, 1782387) | 994538 (256156, 2172530) |
| ICER per DALY averted | NaN (NA, NA) | 535 (83, 1716) | 23 (-284, 301) | 42 (-266, 335) | -53 (-390, 147) |
| ICER per DALY averted (discounted costs) | NaN (NA, NA) | 475 (74, 1519) | 23 (-250, 272) | 40 (-231, 302) | -44 (-344, 134) |
| DALYs averted (discounted) | 0 (0, 0) | 227267 (58577, 485259) | 424932 (116942, 903268) | 387298 (106102, 825758) | 492854 (132601, 1024477) |
| ICER per DALY averted (discounted DALYs) | NaN (NA, NA) | 1061 (178, 3358) | 48 (-562, 600) | 84 (-507, 672) | -102 (-743, 294) |
| ICER per DALY averted (discounted costs & DALYs) | NaN (NA, NA) | 943 (160, 2977) | 47 (-488, 541) | 81 (-439, 606) | -85 (-649, 271) |

all.combined

| Measure | NO\_V | CU\_V | IE\_V | IB\_V | U\_V |
| --- | --- | --- | --- | --- | --- |
| Total cases | 54559543 (46226406, 63055405) | 37357679 (29998835, 45126133) | 21562873 (14515714, 29491912) | 24458456 (17574075, 32290230) | 16195838 (9075130, 23549526) |
| Total URT infections | 31516774 (7635124, 53264947) | 21586049 (5237289, 36740533) | 12467021 (2830164, 22506937) | 14136634 (3296155, 25234125) | 9376333 (1845928, 17968262) |
| Total out-patient visits by patients with URT infection | 7006116 (2414727, 12922945) | 4362037 (1493703, 8026856) | 2213908 (765907, 4166990) | 2578990 (884340, 4795650) | 1584802 (541707, 3169350) |
| Total LRT infections | 13842865 (955249, 31251740) | 9477655 (683315, 21749650) | 5465753 (379522, 12978766) | 6200720 (433617, 14659256) | 4108145 (275791, 10457334) |
| Total LRT infections that are not hospitalised | 13710233 (812354, 31083969) | 9393020 (586352, 21671291) | 5420759 (346575, 12934906) | 6148780 (395370, 14597519) | 4075226 (243821, 10405374) |
| Total patients with severe illness that are hospitalised | 132632 (58120, 221861) | 84635 (36816, 142943) | 44993 (18338, 81190) | 51940 (21632, 92639) | 32919 (12460, 60613) |
| Total deaths | 14703 (819, 43049) | 9359 (525, 27339) | 4961 (260, 14806) | 5731 (298, 16922) | 3636 (184, 11182) |
| Total lost wages (in USD) due to influenza related illness (non-hospitalised) | 99382679 (4120050, 296908258) | 61816891 (2603687, 185575521) | 31255779 (1189483, 95898178) | 36436361 (1437858, 113834271) | 22268139 (859553, 69474367) |
| Total lost wages (in USD) due to influenza related hospitalisation | 6366513 (349935, 17660170) | 4064551 (213219, 11298562) | 2154072 (103700, 6003547) | 2487089 (123969, 6844912) | 1574832 (71935, 4509646) |
| Total YLD | 13788 (2048, 38972) | 9433 (1451, 26302) | 5449 (822, 15290) | 6181 (951, 17148) | 4091 (618, 12010) |
| Total YLL (undiscounted) | 1362872 (334760, 2849322) | 902564 (212911, 1817665) | 509805 (112964, 970163) | 582463 (130349, 1114459) | 378030 (81230, 737084) |
| Total DALYs (undiscounted) | 1376660 (347640, 2856048) | 911997 (222907, 1824261) | 515254 (116466, 976485) | 588643 (136238, 1124134) | 382122 (82260, 744902) |
| Total YLL (time-discounted) | 685392 (164718, 1383986) | 462480 (110573, 900438) | 268799 (58768, 538264) | 305701 (68449, 602924) | 202234 (43407, 435995) |
| Total DALYs (time-discounted) | 699178 (179798, 1402727) | 471911 (118845, 901868) | 274246 (61351, 553196) | 311881 (72023, 611317) | 206324 (46289, 439258) |
| Direct medical costs | 41.83 (11.42, 87.27) | 228.71 (177.43, 289.8) | 125.02 (96.98, 159.75) | 127.2 (98.7, 162.71) | 90.94 (69.87, 116.69) |
| Direct medical costs (excl. vaccine costs) | 41.83 (11.42, 87.27) | 99.93 (48.66, 161.02) | 54.08 (26.04, 88.81) | 56.26 (27.76, 91.77) | 39.27 (18.21, 65.03) |
| Healthcare related costs | 25.91 (3.69, 70.4) | 34.73 (6.36, 83.53) | 18.45 (3.47, 44.18) | 19.8 (3.69, 46.57) | 13.33 (2.54, 31.42) |
| Indirect costs | 106.4 (9.06, 298.64) | 66.28 (5.7, 192.73) | 33.62 (2.83, 99.19) | 39.16 (3.32, 115.68) | 23.99 (2.02, 72.61) |
| Total costs | 174.13 (42.33, 408.19) | 329.72 (221.83, 494.95) | 177.08 (120.37, 263.15) | 186.16 (123.67, 283.71) | 128.26 (88.16, 195.5) |
| Discounted total costs | 154.56 (37.75, 362.87) | 292.8 (196.78, 439.04) | 158.58 (107.87, 236.1) | 167.01 (110.95, 255.46) | 115.85 (79.75, 175.22) |
| Incremental total costs | 0 (0, 0) | 155587816 (59401686, 241390820) | 2949463 (-165888232, 104770930) | 12024916 (-142999231, 108174892) | -45875635 (-235088257, 61866408) |
| Incremental total costs (discounted) | 0 (0, 0) | 138238274 (53087352, 214129669) | 4015696 (-144188065, 94432417) | 12444772 (-124828082, 97310059) | -38713848 (-202994785, 56480683) |
| DALYs averted | 0 (0, 0) | 464663 (108464, 1065367) | 861406 (219558, 1945242) | 788017 (199096, 1782387) | 994538 (256156, 2172530) |
| ICER per DALY averted | NaN (NA, NA) | 535 (83, 1716) | 23 (-284, 301) | 42 (-266, 335) | -53 (-390, 147) |
| ICER per DALY averted (discounted costs) | NaN (NA, NA) | 475 (74, 1519) | 23 (-250, 272) | 40 (-231, 302) | -44 (-344, 134) |
| DALYs averted (discounted) | 0 (0, 0) | 227267 (58577, 485259) | 424932 (116942, 903268) | 387298 (106102, 825758) | 492854 (132601, 1024477) |
| ICER per DALY averted (discounted DALYs) | NaN (NA, NA) | 1061 (178, 3358) | 48 (-562, 600) | 84 (-507, 672) | -102 (-743, 294) |
| ICER per DALY averted (discounted costs & DALYs) | NaN (NA, NA) | 943 (160, 2977) | 47 (-488, 541) | 81 (-439, 606) | -85 (-649, 271) |