Table S2. Additional model input parameters, 18 years and older.

| Variable | **Base Case**  **Estimate** | **Range for**  **Sensitivity Analysis** | **Source** |
| --- | --- | --- | --- |
| Probability that adult with influenza makes an outpatient visit |  |  |  |
| 18-64 y, healthy | 0.31 | 0.27 -0.356 | [[1](#_ENREF_1),[2](#_ENREF_2),[3](#_ENREF_3)] |
| 18-64 y, high risk | 2X healthy | 1X-3X | Expert Panel |
| ≥65 years, all | 2X healthy 18-64y | 1X-3X | Expert Panel |
| Probability of vaccine-related adverse events |  |  |  |
| Local reaction, IIV (not medically-attended) | 0.44 | 0.030-0.585 | [[1](#_ENREF_1),[4](#_ENREF_4),[5](#_ENREF_5),[6](#_ENREF_6),[7](#_ENREF_7)], Expert panel |
| Systemic reaction, IIV | 0.011 | 0.00-0.044 | [[4](#_ENREF_4),[5](#_ENREF_5),[7](#_ENREF_7),[8](#_ENREF_8),[9](#_ENREF_9)], Expert panel |
| Anaphylaxis | 0.000001 | 0-0.000002 | [[10](#_ENREF_10)] |
| Guillain Barré syndrome1 (medically attended within 6 weeks of vaccination) | 0.000001 | 0 - 0.000115 | [[11](#_ENREF_11),[12](#_ENREF_12),[13](#_ENREF_13),[14](#_ENREF_14),[15](#_ENREF_15),[16](#_ENREF_16),[17](#_ENREF_17),[18](#_ENREF_18),[19](#_ENREF_19),[20](#_ENREF_20)] |
| Influenza-related medical costs |  |  |  |
| OTC medications | $4 |  | [[21](#_ENREF_21)] |
| Outpatient visit, medical costs |  |  |  |
| 18-49 y, healthy | $158 | $128-133 | [[21](#_ENREF_21)] |
| 18-49 y, high risk | $919 | $248-1853 | [[21](#_ENREF_21)] |
| 50-64 y, healthy | $191 | $150-163 | [[21](#_ENREF_21)] |
| 50-64 y, high risk | $928 | $448-1296 | [[21](#_ENREF_21)] |
| ≥65 y, all | $312 | $301-340 | [[21](#_ENREF_21)] |
| Influenza- related hospitalization, medical costs |  |  |  |
| 18-49 y, healthy | $24,080 | $21,300-27,374 | [[21](#_ENREF_21)] |
| 18-49 y, high risk | $60,442 | $43,784-84,985 | [[21](#_ENREF_21)] |
| 50-64 y, healthy | $28,249 | $25,336-31,741 | [[21](#_ENREF_21)] |
| 50-64 y, high risk | $52,319 | $45,891-60,727 | [[21](#_ENREF_21)] |
| ≥65 y, all | $18,103 | $17,310-19,042 | [[21](#_ENREF_21)] |

1 Guillain Barré syndrome is modeled over a one-year time horizon including a short-term hospitalization followed by gradual recovery.

| Variable | **Base Case**  **Estimate** | **Range for**  **Sensitivity Analysis** | **Source** |
| --- | --- | --- | --- |
| Vaccination-related adverse events |  |  |  |
| Physician visit for systemic reaction2 |  |  | Same as for ILI visit |
| Anaphylaxis3  18-49y  50-64y  ≥65 y | $524  $563  $557 | $477-579  $488-652  $411-754 | [[21](#_ENREF_21)], Marketscan database4 |
| Guillain-Barré syndrome5 | $76,327 | $51,313-102,967 | [[21](#_ENREF_21)], Marketscan database |
| Vaccine dose | $8.60 |  | HHS/BARDA |
| Administration |  |  |  |
| Mass vaccination | $11.30 |  | Assumption |
| Physician office setting, existing visit | $13.71 |  | [[22](#_ENREF_22)] |
| Physician office setting, additional visit | $20.92 |  | [[22](#_ENREF_22)] |
| Recipient time costs6 (hours), mass vaccination setting | 0.7 | - | [[23](#_ENREF_23)], assumption |
| Recipient time costs6 (hours), physician office setting | 1.0 | - | [[24](#_ENREF_24)] |
| Hourly wage rate | $20.62 |  | [[25](#_ENREF_25)] |

2 5- minute visit, CPT code 99211

3 ICD-9 codes: 999.4, 995.0, 995.6x

4 2001-2003 Marketscan database, The Medstat Group, Ann Arbor, MI.

5 ICD-9 code: 357.0

6 Includes travel, waiting, and vaccination time.

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