**S4 Table:** Uncertainty analysis of the impact on financial risk protection (2011 US$) across income quintiles for each of the two policies in Ethiopia (pneumonia treatment and pneumococcal vaccines), key variables are modified as a one-way sensitivity analysis (Q1 is poorest and Q5 is richest; colours identify value variance, where black cells are the 10% highest values and grey cells are the 10% lowest values).

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Pneumococcal vaccine** |  | **Pneumonia treatment** |
|   | **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Total** |  | **Q1** | **Q2** | **Q3** | **Q4** | **Q5** | **Total** |
| Pneumonia treatment at 0% coverage |   |   |   |   |   |   |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| PCV 10% incremental coverage | **4 665**  | **1 408**  | **1 113**  | **857**  | **247**  | **8 290**  |   |  |  |  |  |  |  |
| **Pneumonia treatment 10% incremental coverage** |   |   |   |   |   |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| **PCV coverage at DPT3 level** | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   |   |   |   |   |   |   |
| PCV 80% incremental coverage | 37 317  | 11 268  | 8 903  | 6 860  | 1 974  | 66 321  |   |   |   |   |   |   |   |
| PCV 90% incremental coverage | 41 981  | 12 676  | 10 016  | 7 717  | 2 221  | 74 612  |   |   |   |   |   |   |   |
| Pneumonia treatment 80% incremental coverage |   |   |   |   |   |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| Pneumonia treatment 90% incremental coverage |   |   |   |   |   |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| PCV vial 0.2 US$ | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| PCV vial 1 US$ | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| Amoxicillin effect reduced to 0.6 | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| Amoxicillin effect increased to 0.8 | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| PCV effect reduced by 20% | 13 621  | 4 113  | 3 250  | 2 504  | 721  | 24 208  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| PCV effect increased by 20% | 20 431  | 6 169  | 4 875  | 3 756  | 1 081  | 36 311  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| 10% of those <5 years with pneumonia | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 144 211  | 50 660  | 41 180  | 32 310  | 9 437  | 277 799  |
| 5% of those <5 years with pneumonia | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 73 531  | 25 734  | 20 997  | 16 551  | 4 814  | 141 629  |
| GDP 300 US$ | 21 190  | 6 449  | 5 001  | 3 807  | 1 086  | 37 534  |   | 124 482  | 43 841  | 35 407  | 27 681  | 8 023  | 239 435  |
| GDP 400 US$ | 14 683  | 4 462  | 3 559  | 2 760  | 798  | 26 261  |   | 89 478  | 31 451  | 25 746  | 20 329  | 5 940  | 172 944  |
| GINI 0.2 | 8 554  | 4 095  | 3 774  | 3 265  | 1 070  | 20 759  |   | 56 009  | 29 078  | 27 226  | 23 905  | 7 915  | 144 133  |
| GINI 0.4 | 25 950  | 7 359  | 4 618  | 3 082  | 771  | 41 780  |   | 151 498  | 48 952  | 32 860  | 22 606  | 5 736  | 261 652  |
| Copayment out-of-pocket 20% | 6 966  | 2 262  | 1 828  | 1 461  | 438  | 12 955  |   | 31 976  | 11 821  | 9 798  | 7 811  | 2 301  | 63 706  |
| Copayment out-of-pocket 50% | 34 407  | 10 826  | 8 181  | 6 062  | 1 681  | 61 157  |   | 245 455  | 84 361  | 67 168  | 51 980  | 14 942  | 463 907  |
| Number of deaths due to ALRI -30% | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| Number of deaths due to ALRI +30% | 17 026  | 5 141  | 4 062  | 3 130  | 901  | 30 259  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| Number of births and under 5 pop +20% | 19 603  | 5 973  | 4 723  | 3 661  | 1 063  | 35 024  |   | 122 569  | 42 962  | 35 002  | 27 540  | 8 024  | 236 095  |
| Number of births and under 5 pop -20% | 14 447  | 4 308  | 3 401  | 2 598  | 739  | 25 493  |   | 81 713  | 28 641  | 23 334  | 18 360  | 5 349  | 157 397  |
| Number of deaths due to SP -30% | 15 784  | 4 847  | 3 835  | 2 988  | 874  | 28 328  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |
| Number of deaths due to SP +30% | 18 265  | 5 434  | 4 289  | 3 271  | 928  | 32 187  |   | 102 141  | 35 801  | 29 168  | 22 950  | 6 686  | 196 746  |

PCV=pneumococcal vaccine; DPT=Diphtheria-tetanus-pertussis-HepatitisB-Haemophilus influenzae type b; ALRI= Acute lower respiratory infection;

SP=Streptococcus pneumoniae