**S8 Table. Calculations of intersectional strata for each of three outcomes**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Outcome | Statistically significant variable in univariate analysis (No. of category) | Supplementary information table | Interaction among categories (combinations) | Initial number of intersectional strata | Number of strata with zero observation | Final no. of intersectional strata |
| 1 | 2 | 3 | 4 | 5=4 | 6 | 7=5-6 |
| Cough | * Child age (2) * Division (4) * Age of household head (3) * Garbage disposal (4) * Mothers’ employment (2) | S5 Table | 2\*4\*3\*4\*2 | 192 | 45 | 147 |
| Fever | * Child age (2) * Division (4) * Age of household head (3) * Garbage disposal (4) * Mothers’ age (2) * Mother’ employment (2) * Mother ever attended school (2) * Separate kitchen (2) | S6 Table | 2\*4\*3\*2\*4\*2\*2\*2 | 1536 | 1095 | 441 |
| ARI | * Child age (2) * Division (4) * Age of household head (3) * Wealth index (3) * Cooking fuel used (4) * Mothers’ employment (2) | S7 Table | 2\*4\*3\*3\*4\*2 | 576 | 329 | 247 |