**Table S3. Sensitivity analysis on secondary transmission. 90% test acceptance.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
|  | **HIV testing frequency** | | | | |
|  | **Current practice** | | **One-time** | **Every 5 years** | **Annually** |
| **National population** |  |  | |  |  |
| ***Prevalence 0.29%, Incidence 0.032/100PY, background testing 3.2% per year*** |  |  | |  |  |
| Number of secondary cases (per 100,000) | 6.93 | 6.76 | | 6.64 | 6.17 |
| Incremental HIV cases averteda (per 100,000) | ---- | 0.17 | | 0.12 | 0.47 |
| % incremental decrease | ---- | 2.5 | | 1.8 | 7.1 |
|  |  |  | |  |  |
| **High prevalence district** |  |  | |  |  |
| ***Prevalence 0.8%, Incidence 0.088/100PY, background testing 3.3% per year*** |  |  | |  |  |
| Number of secondary cases (per 100,000) | 6.97 | 6.81 | | 6.70 | 6.23 |
| Incremental HIV cases averteda (per 100,000) | ---- | 0.16 | | 0.11 | 0.47 |
| % incremental decrease | ---- | 2.3 | | 1.6 | 7.0 |
|  |  |  | |  |  |
| **High-risk group** |  |  | |  |  |
| ***Prevalence 5.0%, Incidence 0.552/100PY, background testing 50% per year*** |  |  | |  |  |
| Number of secondary cases (per 100,000) | 6.84 | 6.83 | | 6.80 | 6.67 |
| Incremental HIV cases averteda (per 100,000) | ---- | 0.01 | | 0.03 | 0.13 |
| % incremental decrease | ---- | 0.1 | | 0.4 | 1.9 |
| PY – person-years  Transmission coefficient ranges from 0.16/100 PY to 9.03/100 PY depending on HIV RNA level. [[45](#_ENREF_45)]  aIncremental HIV cases averted relative to those averted with the next less frequent HIV testing strategy. | | | | | |