## Additional file 2: GeneXpert testing outcome

|  | Clinic 1 |  | Clinic 2 |  | Clinic 3 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | HIV | TB | HIV | TB | HIV | TB | HIV | TB |
| SCREENING - \# screened for TB at the Clinic, total ( n ) | 971 |  | 581 |  | 303 |  | 1855 |  |
| By provider ( n , percentage of number screened for TB with known provider) | $\begin{gathered} 154 \\ (19.8 \%) \end{gathered}$ | $\begin{gathered} 623 \\ (80.2 \%) \end{gathered}$ | $\begin{gathered} 177 \\ (36.2 \%) \end{gathered}$ | $\begin{gathered} 312 \\ (73.8 \%) \end{gathered}$ | $\begin{gathered} 106 \\ (41.1 \%) \end{gathered}$ | $\begin{gathered} 152 \\ (58.9 \%) \end{gathered}$ | $\begin{gathered} 437 \\ (28.7 \%) \end{gathered}$ | $\begin{gathered} 1087 \\ (71.3 \%) \end{gathered}$ |
|  | $\begin{aligned} X^{2} & =149.6373 \\ p & <0.00001 \end{aligned}$ |  |  |  |  |  |  |  |
| Unspecified provider ( n , percentage of total number screened for TB) | $\begin{gathered} 194 \\ (20.0 \%) \end{gathered}$ |  | $\begin{gathered} 92 \\ (15.8 \%) \\ \hline \end{gathered}$ |  | $\begin{gathered} 45 \\ (14.9 \%) \end{gathered}$ |  | $\begin{gathered} 331 \\ (17.8 \%) \\ \hline \end{gathered}$ |  |
| TOTAL \# cases with GeneXpert test(s) (n, percentage of total number screened for TB) <br> By provider | $\begin{gathered} 659 \\ (67.7 \%) \end{gathered}$ |  | $\begin{gathered} 402 \\ (69.2 \%) \\ X^{2}=12.0196 \\ \boldsymbol{p}=\mathbf{0 . 0 0 2 5} \end{gathered}$ |  | $\begin{gathered} 237 \\ (78.2 \%) \end{gathered}$ |  | $\begin{gathered} 1298 \\ (69.9 \%) \end{gathered}$ |  |
|  |  |  |  |  |  |  |  |  |
|  | $\begin{gathered} 122 \\ (79.2 \%) \end{gathered}$ | $\begin{gathered} 448 \\ (71.9 \%) \end{gathered}$ | $\begin{gathered} 124 \\ (70.1 \%)) \end{gathered}$ | $\begin{gathered} 215 \\ (68.9 \%) \end{gathered}$ | $\begin{gathered} 82 \\ (77.4 \%) \end{gathered}$ | $\begin{gathered} 122 \\ (80.3 \%) \end{gathered}$ | $\begin{gathered} 328 \\ (75.1 \%) \end{gathered}$ | $\begin{gathered} 785 \\ (72.2 \%) \end{gathered}$ |
|  |  |  |  |  |  |  |  | $\begin{aligned} & 2765 \\ & 2585 \end{aligned}$ |
| Unspecified provider | $\begin{gathered} 89 \\ (45.9 \%) \end{gathered}$ |  | $\begin{gathered} 63 \\ (68.5 \%) \\ \hline \end{gathered}$ |  | $\begin{gathered} 33 \\ (73.3 \%) \\ \hline \end{gathered}$ |  | $\begin{gathered} 185 \\ (55.9 \%) \end{gathered}$ |  |
| POSITIVE | $\begin{gathered} 66 \\ (10.0) \end{gathered}$ |  | $\begin{gathered} 38 \\ (9.5) \end{gathered}$ |  | $\begin{gathered} 11 \\ (4.6) \end{gathered}$ |  | $\begin{aligned} & 115 \\ & (8.9) \end{aligned}$ |  |
|  |  |  | $\begin{aligned} X^{2} & =6.4875 \\ \boldsymbol{p} & =\mathbf{0 . 0 3 9 0} \end{aligned}$ |  |  |  |  |  |
| By provider | $\begin{gathered} 25 \\ (20.5) \end{gathered}$ | $\begin{gathered} 40 \\ (8.9) \end{gathered}$ | $\begin{gathered} 12 \\ (9.7) \end{gathered}$ | $\begin{gathered} 25 \\ (11.6) \end{gathered}$ | $\begin{gathered} 7 \\ (8.5) \end{gathered}$ | $\begin{gathered} 4 \\ (3.3) \end{gathered}$ | $\begin{gathered} 44 \\ (13.4) \end{gathered}$ | $\begin{gathered} 69 \\ (8.7) \end{gathered}$ |
|  | $\begin{gathered} \mathrm{X}^{2}=12.6901 \\ p=0.0004(p= \\ 0.0006)^{*} \end{gathered}$ |  | $\begin{gathered} \mathrm{X}^{2}=0.3077 \\ \mathrm{p}=0.5791(\mathrm{p}= \\ 0.5954)^{*} \end{gathered}$ |  | $\begin{gathered} X^{2}=2.6575 \\ p=0.1031(p= \\ 0.1218)^{*} \end{gathered}$ |  | $\begin{aligned} X^{2} & =5.4244 \\ p & =0.0199 \end{aligned}$ |  |
| Unspecified provider | $\begin{gathered} 1 \\ (1.5 \%) \end{gathered}$ |  | $\begin{gathered} 1 \\ (2.6 \%) \end{gathered}$ |  | $\begin{gathered} 0 \\ (0.0 \%) \\ \hline \end{gathered}$ |  | $\begin{gathered} 2 \\ (1.7 \%) \end{gathered}$ |  |


|  | Clinic 1 |  | Clinic 2 |  | Clinic 3 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | HIV | TB | HIV | TB | HIV | TB | HIV | TB |
| NEGATIVE | $\begin{gathered} 576 \\ (87.4 \%) \end{gathered}$ |  | $\begin{gathered} 353 \\ (87.8 \%) \end{gathered}$ |  | $\begin{gathered} 221 \\ (93.2 \%) \end{gathered}$ |  | $\begin{gathered} 1150 \\ (88.6 \%) \end{gathered}$ |  |
|  |  |  | $\begin{aligned} X^{2} & =6.2495 \\ \boldsymbol{p} & =0.0439 \end{aligned}$ |  |  |  |  |  |
| By provider | $\begin{gathered} 93 \\ (76.2 \%) \end{gathered}$ | $\begin{gathered} 399 \\ (89.1 \%) \end{gathered}$ | $\begin{gathered} 107 \\ (86.3 \%) \end{gathered}$ | $\begin{gathered} 184 \\ (85.6 \%) \end{gathered}$ | $\begin{gathered} 75 \\ (91.5 \%) \end{gathered}$ | $\begin{gathered} 114 \\ (93.4 \%) \end{gathered}$ | $\begin{gathered} 275 \\ (83.8 \%) \end{gathered}$ | $\begin{gathered} 697 \\ (88.8 \%) \end{gathered}$ |
|  | $\begin{aligned} X^{2} & =13.3693 \\ p & =0.0003 \end{aligned}$ |  | $\begin{gathered} X^{2}=0.0325 \\ p=0.8568 \end{gathered}$ |  | $\begin{aligned} & X^{2}=0.282 \\ & p=0.5954 \end{aligned}$ |  | $\begin{aligned} \mathrm{X}^{2} & =5.1200 \\ \boldsymbol{p} & =0.0236 \end{aligned}$ |  |
| Unspecified provider | $\begin{gathered} 84 \\ (94.4 \%) \end{gathered}$ |  | $\begin{gathered} 62 \\ (98.4 \%) \\ \hline \end{gathered}$ |  | $\begin{gathered} 32 \\ (97.0 \%) \\ \hline \end{gathered}$ |  | $\begin{gathered} 178 \\ (96.2 \%) \end{gathered}$ |  |
| UNSUCCESSFUL | $\begin{gathered} 13 \\ (2.0 \%) \end{gathered}$ |  | $\begin{gathered} 9 \\ (2.2 \%) \end{gathered}$ |  | $\begin{gathered} 4 \\ (1.7 \%) \end{gathered}$ |  | $\begin{gathered} 26 \\ (2.0 \%) \end{gathered}$ |  |
|  |  |  | $\begin{gathered} X^{2}=0.2369 \\ p=0.8882 \end{gathered}$ |  |  |  |  |  |
| By provider | $\begin{gathered} 3 \\ (2.5 \%) \end{gathered}$ | $\begin{gathered} 7 \\ (1.6 \%) \end{gathered}$ | $\begin{gathered} 4 \\ (3.2 \%) \end{gathered}$ | $\begin{gathered} 5 \\ (2.3 \%) \end{gathered}$ | $\begin{gathered} 0 \\ (0.0 \%) \end{gathered}$ | $\begin{gathered} 3 \\ (2.5 \%) \end{gathered}$ | $\begin{gathered} 7 \\ (2.1 \%) \end{gathered}$ | $\begin{gathered} 15 \\ (1.9 \%) \end{gathered}$ |
|  | $\begin{gathered} X^{2}=0.4471 \\ p=0.5037 \end{gathered}$ |  | $\begin{gathered} X^{2}=0.2466 \\ p=0.6194 \end{gathered}$ |  | $\mathrm{p}=0.2753^{*}$ |  | $\begin{gathered} X^{2}=0.0595 \\ p=0.8072 \end{gathered}$ |  |
| Unspecified provider | $\begin{gathered} 3 \\ (3.4 \%) \end{gathered}$ |  | $\begin{gathered} 0 \\ (0.0 \%) \end{gathered}$ |  | $\begin{gathered} 1 \\ (3.0 \%) \end{gathered}$ |  | $\begin{gathered} 4 \\ (2.2 \%) \\ \hline \end{gathered}$ |  |
| UNKNOWN RESULT | $\begin{gathered} 4 \\ (0.6 \%) \end{gathered}$ |  | $\begin{gathered} 2 \\ (0.5 \%) \end{gathered}$ |  | $\begin{gathered} 1 \\ (0.4 \%) \end{gathered}$ |  | $\begin{gathered} 7 \\ (0.5 \%) \end{gathered}$ |  |
|  |  |  | $\begin{gathered} X^{2}=0.1302 \\ p=0.9370 \\ \hline \end{gathered}$ |  |  |  |  |  |
| By provider | $\begin{gathered} 1 \\ (0.8 \%) \end{gathered}$ | $\begin{gathered} 2 \\ (0.4 \%) \end{gathered}$ | $\begin{gathered} 1 \\ (0.8 \%) \end{gathered}$ | $\begin{gathered} 1 \\ (0.5 \%) \end{gathered}$ | $\begin{gathered} 0 \\ (0.0 \%) \end{gathered}$ | $\begin{gathered} 1 \\ (0.8 \%) \end{gathered}$ | $\begin{gathered} 2 \\ (0.6 \%) \end{gathered}$ | $\begin{gathered} 4 \\ (0.5) \end{gathered}$ |
|  | $\begin{gathered} X^{2}=0.2551 \\ p=0.6135(p=1)^{*} \end{gathered}$ |  | $\begin{gathered} X^{2}=0.1562 \\ p=0.6927(p=1)^{*} \end{gathered}$ |  | $p=1 *$ |  | $\begin{gathered} X^{2}=0.0433 \\ p=0.8351 \end{gathered}$ |  |
| Unspecified provider | $\begin{gathered} 1 \\ (1.1 \%) \end{gathered}$ |  | $\begin{gathered} 0 \\ (0.0 \%) \end{gathered}$ |  | $\begin{gathered} 0 \\ (0.0 \%) \end{gathered}$ |  | $\begin{gathered} 1 \\ (0.5 \%) \end{gathered}$ |  |

* Fisher's Exact Test (two tailed)

