Table S1: Distribution of district data points across reporting quarters used for PEPFAR data

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| --- | --- | --- | --- | --- | --- | --- |
| Country | Total number of districts | Total number of districts in PEPFAR data | District data points used (district, age disaggregations, sex, support type)1 | District data points missing  (age disaggregations) | Data points | Number (%) of district data points available |
| Lesotho | 10 | 10 | 114 | 0% | July-September 2016 | 54 (47.4%) |
| July-September 2015 | 30 (26.3%) |
| January-March 2015 | 30 (26.3%) |
| Malawi | 28 | 28 | 228 | 0% | July-September 2016 | 204 (89.5%) |
| January-March 2015 | 24 (10.5%) |
| Swaziland | 4 | 4 | 48 | 0% | July-September 2016 | 48 (100%) |
| Tanzania | 196 | 186 | 1322 | 7% of <1; 1% for 1-4 | July-September 2016 | 1236 (93.5%) |
| January-March 2016 | 86 (6.5%) |
| Uganda | 112 | 109 | 1068 | 10% for <1; 1% for 5-14 | July-September 2016 | 1068 (100%) |
| Zambia | 110 | 104 | 907 | 1% for <1 | July-September 2016 | 821 (90.5%) |
| January-March 2016 | 22 (2.4%) |
| July-September 2015 | 55 (6.1%) |
| January-March 2015 | 9 (1%) |
| Zimbabwe | 59 | 59 | 384 | 0% | July-September 2016 | 384 (100%) |

1. The number is the total number of district data points used to generate the total number CLHIV for each country. The number is a function of the number of districts, number of age disaggregations, which were 3 (<1, 1-4, 5-14) in all countries, and the number of sex categories, which were 2 (male/female), and number of support categories, which were 2 (direct site delivery (DSD), technical assistance (TA)). For example in Swaziland, we totaled 4 district data for 3 age groups for 2 sex categories from 2 support type from one time period (4\*3\*2\*2\*1=48 data points). In many countries not all districts had both DSD and TA designated sites within them. In Zimbabwe, for example, we totaled 59 district data for 3 age groups for 2 sex categories (59\*3\*2=354). But since only 5 out of the 59 had DSD and TA designated sites, the total district data points were354+(5\*3\*2)=384.

Table S2: Distribution of ART sites and pediatric patients supported by PEPFAR

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| --- | --- | --- | --- |
| Country | Total number of sites providing pediatric treatment | Sites providing pediatric treatment-PEPFAR supported | Estimated patient coverage by PEPFAR |
| Lesotho | 182 | 113 (62%) | 76% |
| Malawi | 694 | 458 (66%) | 94% |
| Swaziland | 162 | 127 (78%) | Not provided |
| Tanzania | 2755 | 2613 (95%) | 95% |
| Uganda | 1754 | 1539 (88%) | 94% |
| Zambia | 1800 | 826 (46%) | 85% |
| Zimbabwe | 1532 | 662 (43%) | 76% |