**Mortality trends in the era of ART: evidence from the Network for Analysing Longitudinal Population based HIV/AIDS data on Africa (ALPHA)**

**Online appendix**

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**Figure A.1: All-cause death rates and 95% confidence intervals for everyone and for individuals with an unknown HIV status, by study site, sex and calendar year (ages 15-64)**



**Table A1: Adult mortality rates and 95% confidence intervals by study site, sex, HIV status and calendar year (ages 15-64)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |  |  | **Men** |  |  |  |  |  | **Women** |  |  |
|   | **2000** | **2003** | **2005** | **2008** | **2011** |  | **2000** | **2003** | **2005** | **2008** | **2011** |
| **Karonga** |  |  |  |  |  |  |  |  |  |  |  |
| All | n.d. | 12.8 | 8.6 | 7.4 | 5.8 |  | n.d. | 12.7 | 8.9 | 5.7 | 3.8 |
|  |  | (9.6-17.1) | (6.7-11.1) | (5.7-9.6) | (4.4-7.8) |  |  | (9.6-16.7) | (7.1-11.3) | (4.3-7.6) | (2.7-5.3) |
| HIV+ | n.d. | n.d. | n.d. | 42.7 | 36.4 |  | n.d. | n.d. | n.d. | 18.7 | 11.7 |
|  |  |  |  | (24.8-73.5) | (22.6-58.5) |  |  |  |  | (10.1-34.8) | (6.1-22.5) |
| HIV- | n.d. | n.d. | n.d. | 2.7 | 3.9 |  | n.d. | n.d. | n.d. | 2.4 | 3.0 |
|  |  |  |  | (1.3-5.3) | (2.5-5.9) |  |  |  |  | (1.3-4.7) | (1.9-4.6) |
| HIV - unknown | n.d. | n.d. | n.d. | 8.2 | 4.1 |  | n.d. | n.d. | n.d. | 7.0 | 3.3 |
|   |   |   |   | (5.9-11.5) | (2.0-8.6) |   |   |   |   | (4.9-10.1) | (1.4-8.0) |
| **Kisesa** |  |  |  |  |  |  |  |  |  |  |  |
| All | 11.0 | 10.5 | 9.0 | 10.0 | 5.4 |  | 11.5 | 8.2 | 8.1 | 6.3 | 2.9 |
|  | (8.6-14) | (8.2-13.4) | (6.9-11.7) | (8-12.7) | (3.9-7.4) |  | (9.1-14.5) | (6.2-10.7) | (6.2-10.6) | (4.7-8.3) | (1.9-4.5) |
| HIV+ | 93.3 | 124.2 | 66.8 | 76.2 | 51.7 |  | 97.6 | 52.1 | 57.8 | 39.6 | 19.8 |
|  | (56.3-154.8) | (73.5-209.7) | (37.0-120.6) | (43.3-134.2) | (25.8-103.3) |  | (64.3-148.2) | (26.0-104.1) | (32.8-101.7) | (21.9-71.5) | (8.9-44.1) |
| HIV- | 7.9 | 5.0 | 7.4 | 8.2 | 3.7 |  | 7.9 | 6.4 | 5.5 | 2.9 | 1.2 |
|  | (5.2-11.9) | (2.8-8.8) | (4.9-11.2) | (5.6-12.0) | (2.0-6.9) |  | (5.4-11.6) | (4.0-10.2) | (3.5-8.5) | (1.6-5.3) | (0.5-3.2) |
| HIV - unknown | 9.4 | 10.6 | 7.5 | 8.9 | 4.8 |  | 8.4 | 7.6 | 7.8 | 7.2 | 3.1 |
|   | (6.4-13.8) | (7.8-14.5) | (5.0-11.2) | (6.3-12.4) | (3.1-7.4) |   | (5.6-12.8) | (5.2-11.1) | (5.1-12) | (4.9-10.7) | (1.8-5.5) |
| **Kisumu** |  |  |  |  |  |  |  |  |  |  |  |
| All | n.d. | 22.8 | 20.4 | 15.6 | 10.1 |  | n.d. | 20.5 | 18.3 | 12.7 | 6.9 |
|  |  | (21.1-24.6) | (18.9-22.1) | (14.6-16.7) | (9.2-11.0) |  |  | (19.1-22.0) | (17.0-19.8) | (11.8-13.6) | (6.3-7.6) |
| HIV+ | n.d. | n.d. | n.d. | 183.3 | 42.4 |  | n.d. | n.d. | n.d. | 69.4 | 17.3 |
|  |  |  |  | (158.2-212.4) | (35.8-50.2) |  |  |  |  | (59.6-80.8) | (14.4-20.7) |
| HIV- | n.d. | n.d. | n.d. | 5.0 | 5.2 |  | n.d. | n.d. | n.d. | 0.8 | 3.5 |
|  |  |  |  | (2.1-12) | (4.3-6.3) |  |  |  |  | (0.1-5.6) | (2.8-4.2) |
| HIV - unknown | n.d. | n.d. | n.d. | 12.5 | 9.8 |  | n.d. | n.d. | n.d. | 10.6 | 7.7 |
|   |   |   |   | (11.5-13.5) | (8.7-11.1) |   |   |   |   | (9.8-11.5) | (6.7-8.7) |
| **Manicaland** |  |  |  |  |  |  |  |  |  |  |  |
| All | 13.9 | 15.9 | 13.6 | 7.7 | n.d. |  | 13.1 | 17.8 | 13.9 | 9.1 | n.d. |
|  | (11.7-16.5) | (13.3-19.0) | (11.7-15.8) | (6.5-9.1) |  |  | (11-15.5) | (15.2-20.7) | (12.2-15.8) | (7.9-10.4) |  |
| HIV+ | 41.2 | 76.1 | 68.6 | 30.5 | n.d. |  | 37.3 | 78.6 | 52.4 | 30.4 | n.d. |
|  | (29.0-58.7) | (57.3-100.9) | (54.4-86.5) | (22.3-41.7) |  |  | (28.1-49.5) | (64.2-96.2) | (43.6-63.1) | (24.4-37.9) |  |
| HIV- | 5.0 | 3.9 | 5.8 | 7.4 | n.d. |  | 4.6 | 4.3 | 8.6 | 6.8 | n.d. |
|  | (3.1-8.2) | (2.2-7.1) | (4.1-8.2) | (5.2-10.5) |  |  | (2.9-7.4) | (2.7-6.9) | (6.7-10.9) | (5.1-9.1) |  |
| HIV - unknown | 15.4 | 14.9 | 11.2 | 5.4 | n.d. |  | 13.1 | 13.1 | 6.9 | 6.0 | n.d. |
|   | (12.3-19.2) | (11.6-19.1) | (8.7-14.3) | (4.3-6.9) |   |   | (10.3-16.6) | (10.0-17.0) | (5.1-9.3) | (4.8-7.5) |   |

**Table A1: continued**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|   |  |  | **Men** |  |  |  |  |  | **Women** |  |  |
|   | **2000** | **2003** | **2005** | **2008** | **2011** |  | **2000** | **2003** | **2005** | **2008** | **2011** |
| **Masaka** |  |  |  |  |  |  |  |  |  |  |  |
| All | 11.1 | 11.8 | 6.5 | 7.3 | 4.6 |  | 13.2 | 9.7 | 8.0 | 6.5 | 4.1 |
|  | (8.0-15.3) | (8.7-15.8) | (4.4-9.7) | (5.0-10.6) | (2.9-7.2) |  | (9.9-17.6) | (7.1-13.2) | (5.7-11.2) | (4.5-9.4) | (2.6-6.4) |
| HIV+ | 89.0 | 74.7 | 36.0 | 43.0 | 13.3 |  | 104.7 | 56.8 | 43.3 | 29.5 | 16.7 |
|  | (56.8-139.5) | (47.1-118.6) | (18.8-69.3) | (23.8-77.7) | (5.0-35.3) |  | (71.3-153.8) | (35.3-91.3) | (26.1-71.8) | (16.7-51.9) | (8.4-33.4) |
| HIV- | 4.0 | 6.4 | 3.6 | 4.2 | 2.6 |  | 6.3 | 5.0 | 4.6 | 4.1 | 1.7 |
|  | (2.1-7.7) | (4.0-10.1) | (1.9-6.6) | (2.4-7.4) | (1.3-5.2) |  | (3.9-10.3) | (3.0-8.1) | (2.8-7.7) | (2.5-7.0) | (0.8-3.7) |
| HIV - unknown | 10.3 | 11.9 | 7.8 | 6.8 | 9.5 |  | 5.6 | 11.6 | 5.6 | 3.7 | 9.1 |
|   | (5.1-20.5) | (6.0-23.8) | (3.3-18.8) | (2.8-16.4) | (4.5-19.9) |   | (2.1-14.9) | (5.5-24.4) | (1.8-17.3) | (0.9-14.7) | (3.8-21.8) |
| **Rakai** |  |  |  |  |  |  |  |  |  |  |  |
| All | 12.9 | 11.9 | 13.3 | 6.0 | n.d. |  | 14.2 | 12.0 | 10.8 | 5.3 | n.d. |
|  | (10.9-15.3) | (10.1-14.0) | (11.3-15.5) | (4.8-7.5) |  |  | (12.2-16.5) | (10.2-14.0) | (9.2-12.8) | (4.2-6.6) |  |
| HIV+ | 90.4 | 94.4 | 96.9 | 37.5 | n.d. |  | 76.7 | 76.3 | 66.7 | 23.7 | n.d. |
|  | (68.1-119.9) | (73.3-121.6) | (75.3-124.9) | (25.7-54.7) |  |  | (61.6-95.5) | (61.6-94.5) | (53.2-83.5) | (16.7-33.5) |  |
| HIV- | 3.4 | 4.3 | 6.0 | 2.7 | n.d. |  | 2.6 | 3.9 | 3.9 | 2.5 | n.d. |
|  | (2.1-5.6) | (3.0-6.3) | (4.4-8.3) | (1.7-4.2) |  |  | (1.6-4.4) | (2.7-5.6) | (2.7-5.7) | (1.6-3.9) |  |
| HIV - unknown | 13.4 | 11.0 | 11.7 | 6.2 | n.d. |  | 14.3 | 9.5 | 7.8 | 4.7 | n.d. |
|   | (10.7-16.9) | (8.4-14.2) | (9.1-15.2) | (4.4-8.7) |   |   | (11.3-18) | (7.1-12.7) | (5.7-10.6) | (3.2-6.8) |   |
| **uMkhanyakude** |  |  |  |  |  |  |  |  |  |  |  |
| All | n.d. | 23.5 | 20.7 | 16.6 | 12.5 |  | n.d. | 19.7 | 19.1 | 12.5 | 9.9 |
|  |  | (21.1-26.1) | (18.5-23.2) | (14.7-18.7) | (10.9-14.4) |  |  | (17.8-21.7) | (17.2-21.1) | (11.1-14.1) | (8.7-11.3) |
| HIV+ | n.d. | n.d. | 91.3 | 74.0 | 50.2 |  | n.d. | n.d. | 53.2 | 36.8 | 22.7 |
|  |  |  | (71.5-116.6) | (60.2-90.8) | (40.8-61.8) |  |  |  | (44.0-64.4) | (31.3-43.3) | (19.1-27.1) |
| HIV- | n.d. | n.d. | 5.5 | 8.1 | 7.3 |  | n.d. | n.d. | 3.2 | 3.9 | 4.5 |
|  |  |  | (3.6-8.5) | (5.6-11.6) | (4.9-11.0) |  |  |  | (1.9-5.3) | (2.6-5.9) | (3.0-6.7) |
| HIV - unknown | n.d. | n.d. | 21.3 | 12.8 | 8.1 |  | n.d. | n.d. | 19.5 | 8.4 | 5.9 |
|   |   |   | (18.6-24.3) | (10.8-15.1) | (6.6-9.9) |   |   |   | (17.3-22.0) | (6.8-10.2) | (4.6-7.6) |

n.d.: no data