**Supplemental Digital Content 2.** Antituberculosis drug resistance patterns by age groups <5 years and 5 to <13 years for the current two 2-year surveillance periods (2013-2017) compared with 5 previous 2-year periods in children less than 13 years of age in the Western Cape, South Africa

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Characteristic** | **Period 1**  **2003-2005** | **Period 2**  **2005-2007** | **Period 3**  **2007-2009** | **Period 4**  **2009-2011** | **Period 5**  **2011-2013** | **Period 6 (Current)**  **2013-2015** | **Period 7 (current)**  **2015-2017** |
| **Children aged <5 years** | **230 (71.2)** | **187 (64.3)** | **212 (72.1)** | **239 (70.3)** | **225 (69.4)** | **182 (64.5)** | **199 (65.2)** |
| DST undertaken | 223 (97.0) | 184 (98.4) | 210 (99.1) | 239 (100) | 225 (100) | 182 (100) | 199 (100) |
| Any resistance: INH or RIF | 27 (12.1) | 25 (13.6) | 32 (15.2) | 27 (11.3) | 34 (15.1) | 24 (13.2, 9.2-18.9) | 33 (16.6, 12.1-22.4) |
| Any INH resistance | 27 (12.1) | 25 (13.6) | 29 (13.8) | 24 (10.0) | 28 (12.4) | 18 (9.9, 6.3-15.1) | 29 (14.6, 10.3-20.1) |
| INH mono-resistancea | 16 (7.2) | 14 (7.6) | 8 (3.8) | 8 (3.3) | 16 (7.1) | 6 (3.3, 1.5-7.0) | 8 (4.0, 2.1-7.7) |
| Any RIF resistance | 11 (4.9) | 11 (6.0) | 24 (11.4) | 19 (7.9) | 18 (8.0) | 18 (9.9, 6.3-15.1) | 25 (12.6, 8.7-17.9) |
| RIF mono-resistancea | 0 | 0 | 3 (1.4) | 3 (1.3) | 6 (2.7) | 6 (3.3, 1.5-7.0) | 4 (2.0, 0.8-5.1) |
| Multidrug resistance | 11 (4.9) | 11 (6.0) | 21 (10.0) | 16 (6.7) | 12 (5.3) | 12 (6.6, 3.8-11.2) | 21 (10.6, 7.0-15.6) |
| **Children 5-13 years** | **93 (28.8)** | **104 (35.7)** | **82 (27.9)** | **101 (29.7)** | **99 (30.6)** | **100 (35.4)** | **106 (34.8)** |
| DST undertaken | 90 (96.8) | 101 (97.1) | 82 (100) | 101 (100) | 99 (100) | 100 (100) | 106 (100) |
| Any resistance: INH or RIF | 13 (14.4) | 18 (17.8) | 13 (15.9) | 22 (21.8) | 7 (7.1) | 11 (11.0, 6.3-18.6) | 10 (9.4, 5.2-16.5) |
| Any INH resistance | 13 (14.4) | 16 (15.8) | 12 (14.6) | 14 (13.9) | 7 (7.1) | 9 (9.0, 4.8-16.2) | 9 (8.5, 4.5-15.4) |
| INH mono-resistance a | 7 (7.8) | 7 (6.9) | 7 (8.5) | 11 (10.9) | 4 (4.0) | 1 (1.0, 0.2-5.4) | 3 (2.8, 1.0-8.0) |
| Any RIF resistance | 6 (6.7) | 10 (9.9) | 6 (7.3) | 11 (10.9) | 3 (3.0) | 10 (10.0, 5.5-17.4) | 7 (6.6, 3.2-13.0) |
| RIF mono-resistance a | 0 | 2 (2.0) | 1 (1.2) | 3 (3.0) | 0 | 2 (2.0, 0.6-7.0) | 1 (0.9, 0.2-5.2) |
| Multidrug resistance | 6 (6.7) | 8 (7.9) | 5 (6.1) | 8 (7.9) | 3 (3.0) | 8 (8.0, 4.1-15) | 6 (5.7, 2.6-11.8) |

a Poly-resistance (resistance to either INH or RIF but not both plus resistance to other drug(s)) in a few cases