Table A 1 Basic characteristics and sample size (% of total 33,086 individuals) for each of the 39 included mines

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Primary commodity** | **Opening year** | **Country** | **N (%)** |
| Bouroum | Gold | 2008 | Burkina Faso | 373 (1.1%) |
| Youga | Gold | 2008 | Burkina Faso | 1378 (4.2%) |
| Taparko | Gold | 2007 | Burkina Faso | 366 (1.1%) |
| Inata | Gold | 2009 | Burkina Faso | 323 (1.0%) |
| Essakane | Gold | 2010 | Burkina Faso | 431 (1.3%) |
| Kalsaka/Sega | Gold | 2008 | Burkina Faso | 1031 (3.1%) |
| Gakara | Lanthanides | 2017 | Burundi | 4520 (13.7%) |
| Twangiza | Gold | 2011 | DRC | 1641 (5.0%) |
| Miniere Musoshi Kinsenda | Copper | 2018 | DRC | 1042 (3.2%) |
| Kibali | Gold | 2012 | DRC | 62 (0.2%) |
| Pampe | Gold | 2007 | Ghana | 472 (1.4%) |
| Hwini-Butre | Gold | 2008 | Ghana | 754 (2.3%) |
| Akyem | Gold | 2013 | Ghana | 860 (2.6%) |
| Nzema | Gold | 2011 | Ghana | 491 (1.5%) |
| Hahotoe-Kpogame-Kpeme | Phosphate | 2013 | Ghana | 893 (2.7%) |
| Kouroussa | Gold | 2015 | Guinea | 183 (0.6%) |
| Forecariah | Iron Ore | 2012 | Guinea | 1924 (5.8%) |
| Baoule | Diamonds | 2014 | Guinea | 180 (0.5%) |
| Dian Dian | Bauxite | 2018 | Guinea | 1160 (3.5%) |
| Bel Air | Bauxite | 2018 | Guinea | 962 (2.9%) |
| Kilimapesa | Gold | 2012 | Kenya | 648 (2.0%) |
| Liberia Mines | Iron Ore | 2011 | Liberia | 1649 (5.0%) |
| Kodieran | Gold | 2012 | Mali | 139 (0.4%) |
| Yanfolila | Gold | 2017 | Mali | 283 (0.9%) |
| Bagoe River | Gold | 2012 | Mali | 298 (0.9%) |
| Tienfala | Iron Ore | 2011 | Mali | 487 (1.5%) |
| Buzwagi | Gold | 2009 | Tanzania | 603 (1.8%) |
| Tancoal | Coal | 2011 | Tanzania | 423 (1.3%) |
| Lubambe | Copper | 2012 | Zambia | 523 (1.6%) |
| Trident - Sentinel | Copper | 2015 | Zambia | 149 (0.5%) |
| Maamba Collieries Ltd | Coal | 2014 | Zambia | 700 (2.1%) |
| Kasempa | Copper | 2013 | Zambia | 96 (0.3%) |
| Maybach | Manganese | 2015 | Zambia | 134 (0.4%) |
| Unki | Platinum | 2010 | Zimbabwe | 527 (1.6%) |
| Old Nic | Gold | 2010 | Zimbabwe | 1632 (4.9%) |
| Anjin Zimbabwe | Diamonds | 2011 | Zimbabwe | 455 (1.4%) |
| Mazowe | Gold | 2014 | Zimbabwe | 1672 (5.1%) |
| Arcturus | Gold | 2014 | Zimbabwe | 2487 (7.5%) |
| Redwing | Gold | 2014 | Zimbabwe | 1135 (3.4%) |

DRC: Democratic Republic of the Congo

Table A 2 Characteristics of industrial mines included in this study with their respective sample sizes and HIV prevalence during the pre-mining phase (4+ years before mine opening) and the operational phase (after mine opening). The national prevalence is given for the respective DHS survey years taken from the United Nations Programme on HIV/AIDS [30].

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name** | **Opening year** | **Country** | **Pre-mining phase** |  | **Operational phase** | **N total (%)** |
|  |  |  | **N** | **HIV prev.** | **DHS years (national HIV prev.)** |  | **N** | **HIV prev.** | **DHS years (national HIV prev.)** |  |
| Bouroum | 2008 | Burkina Faso | 166 | 1.4% | 2003 (1.6%) |  | 207 | 0.5% | 2010 (1.1%) | 373 (1.1%) |
| Youga | 2008 | Burkina Faso | 613 | 0.6% | 2003 (1.6%) |  | 765 | 0.8% | 2010,2014 (0.9-1.1%) | 1,378 (4.2%) |
| Taparko | 2007 | Burkina Faso | 147 | 2.9% | 2003 (1.6%) |  | 219 | 0.5% | 2010 (1.1%) | 366 (1.1%) |
| Inata | 2009 | Burkina Faso | 127 | 0% | 2003 (1.6%) |  | 196 | 1.0% | 2010 (1.1%) | 323 (1.0%) |
| Essakane | 2010 | Burkina Faso | 137 | 0.8% | 2003 (1.6%) |  | 294 | 0% | 2010 (1.1%) | 431 (1.3%) |
| Kalsaka/Sega | 2008 | Burkina Faso | 446 | 0.8% | 2003 (1.6%) |  | 585 | 0.7% | 2010 (1.1%) | 1,031 (3.1%) |
| Gakara | 2017 | Burundi | 2,689 | 2.4% | 2007,2010,2011,2013 (1.4-1.9%) |  | 1831 | 1.0% | 2017 (1.2%) | 4,520 (13.7%) |
| Twangiza | 2011 | DRC | 572 | 2.8% | 2005,2007 (1.3-1.4%) |  | 1,069 | 1.4% | 2013-2017 (0.8-1.0%) | 1,641 (5.0%) |
| Miniere Musoshi Kinsenda | 2018 | DRC | 624 | 18.1% | 2007,2013,2014 (0.9-1.3%) |  | 418 | 14% | 2018 (0.8%) | 1,042 (3.2%) |
| Kibali | 2012 | DRC | 19 | 5.3% | 2007 (1.3%) |  | 43 | 0% | 2013 (1.0%) | 62 (0.2%) |
| Pampe | 2007 | Ghana | 306 | 1.9% | 2003 (2.4%) |  | 166 | 3.0% | 2014 (1.9%) | 472 (1.4%) |
| Hwini-Butre | 2008 | Ghana | 422 | 2.3% | 2003 (2.4%) |  | 332 | 4.5% | 2014 (1.9%) | 754 (2.3%) |
| Akyem | 2013 | Ghana | 537 | 2.2% | 2003 (2.4%) |  | 323 | 1.2% | 2014 (1.9%) | 860 (2.6%) |
| Nzema | 2011 | Ghana | 303 | 2.3% | 2003 (2.4%) |  | 188 | 3.2% | 2014 (1.9%) | 491 (1.5%) |
| Hahotoe-Kpo-game-Kpeme | 2013 | Ghana | 117 | 1.2% | 2003 (2.4%) |  | 776 | 3.0% | 2013,2014 (1.9%) | 893 (2.7%) |
| Kouroussa | 2015 | Guinea | 106 | 0.9% | 2005 (1.6%) |  | 77 | 0% | 2018 (1.5%) | 183 (0.6%) |
| Forecariah | 2012 | Guinea | 452 | 1.1% | 2005,2008 (1.6%) |  | 1,472 | 1.2% | 2012,2013,2018,2019 (1.4-1.6%) | 1,924 (5.8%) |
| Baoule | 2014 | Guinea | 97 | 2.1% | 2005 (1.6%) |  | 83 | 0% | 2018 (1.5%) | 180 (0.5%) |
| Dian Dian | 2018 | Guinea | 718 | 2.0% | 2005,2012 (1.6%) |  | 442 | 3.4% | 2018 (1.5%) | 1,160 (3.5%) |
| Bel Air | 2018 | Guinea | 617 | 1.9% | 2005,2012 (1.6%) |  | 345 | 4.9% | 2018 (1.5%) | 962 (2.9%) |
| Kilimapesa | 2012 | Kenya | 565 | 4.1% | 2003,2004,2007,2008 (6.0-7.6%) |  | 83 | 2.4% | 2012 (5.5%) | 648 (2.0%) |
| Liberia Mines | 2011 | Liberia | 843 | 0.1% | 2005-2007 (1.9-2.1%) |  | 806 | 2.5% | 2012,2013,2018 (1.2-1.6%) | 1,649 (5.0%) |
| Kodieran | 2012 | Mali | 57 | 1.8% | 2006 (1.5%) |  | 82 | 3.7% | 2012 (1.3%) | 139 (0.4%) |
| Yanfolila | 2017 | Mali | 197 | 2.6% | 2005,2006,2012 (1.3-1.6%) |  | 86 | 0% | 2018 (1.0%) | 283 (0.9%) |
| Bagoe River | 2012 | Mali | 150 | 0% | 2006 (1.5%) |  | 148 | 0% | 2012 (1.3%) | 298 (0.9%) |
| Tienfala | 2011 | Mali | 123 | 0% | 2006 (1.5%) |  | 364 | 0.6% | 2013 (1.2%) | 487 (1.5%) |
| Buzwagi | 2009 | Tanzania | 235 | 9.4% | 2003,2004 (5.7-5.8%) |  | 368 | 6.5% | 2012 (5.2%) | 603 (1.8%) |
| Tancoal | 2011 | Tanzania | 307 | 4.2% | 2004,2007 (5.3-5.7%) |  | 116 | 6.0% | 2012 (5.2%) | 423 (1.3%) |
| Lubambe | 2012 | Zambia | 157 | 8.9% | 2007 (12.3%) |  | 366 | 18.0% | 2013,2014 (11.9%) | 523 (1.6%) |
| Trident - Sentinel | 2015 | Zambia | 63 | 4.8% | 2007 (12.3%) |  | 86 | 9.4% | 2018 (11.4%) | 149 (0.5%) |
| Maamba Collieries Ltd | 2014 | Zambia | 157 | 7.1% | 2005-2007,2010 (12.1-12.7%) |  | 543 | 7.4% | 2014,2015,2018 (11.4-11.9%) | 700 (2.1%) |
| Kasempa | 2013 | Zambia | 13 | 23.1% | 2007 (12.3%) |  | 83 | 7.3% | 2014,2018 (11.4-11.9%) | 96 (0.3%) |
| Maybach | 2015 | Zambia | 34 | 17.7% | 2007 (12.3%) |  | 100 | 9.1% | 2018 (11.4%) | 134 (0.4%) |
| Unki | 2010 | Zimbabwe | 171 | 15.3% | 2005,2006 (17.1-18.0%) |  | 356 | 16.0% | 2010,2011,2015 (14.0-15.2%) | 527 (1.6%) |
| Old Nic | 2010 | Zimbabwe | 606 | 18.8% | 2005,2006 (17.1-18.0%) |  | 1,026 | 22.4% | 2010,2011 (15.0-15.2%) | 1,632 (4.9%) |
| Anjin Zimbabwe | 2011 | Zimbabwe | 194 | 19.1% | 2005 (18.0%) |  | 261 | 16.5% | 2011 (15.0%) | 455 (1.4%) |
| Mazowe | 2014 | Zimbabwe | 650 | 19.2% | 2005,2006,2010 (15.2-18.0%) |  | 1,022 | 16.0% | 2015 (14.0%) | 1,672 (5.1%) |
| Arcturus | 2014 | Zimbabwe | 1,269 | 18.7% | 2005,2006,2010 (15.2-18.0%) |  | 1,218 | 15.7% | 2015 (14.0%) | 2,487 (7.5%) |
| Redwing | 2014 | Zimbabwe | 677 | 19.8% | 2005,2006,2010 (15.2-18.0%) |  | 458 | 11.8% | 2015 (14.0%) | 1,135 (3.4%) |

DRC: Democratic Republic of the Congo; N: sample size; prev.: prevalence