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| **Supplemental Table 2. Characteristics of New York City (NYC) residents with HIV who died 2007-2013 with an HIV-related underlying cause of death1, who were retained in care during the intervenable period** |
|  | **Retained patients2** |
|  | Total | Suppressed in intervenable period3 | Not suppressed in intervenable period3 |
|  | **N** | **%** | **N** | **%** | **N** | **%** |
| **Total** | **4,382** | **100.0** | **1,776** | **100.0** | **2,606** | **100.0** |
| **Sex** |  |  |  |  |  |  |
| Male | 2,877 | 65.7 | 1,231 | 69.3 | 1,646 | 63.2 |
| Female | 1,505 | 34.3 | 545 | 30.7 | 960 | 36.8 |
| **Race/Ethnicity** |  |  |  |  |  |  |
| Black | 2,356 | 53.8 | 924 | 52.0 | 1,432 | 55.0 |
| Hispanic | 1,596 | 36.4 | 631 | 35.5 | 965 | 37.0 |
| White | 387 | 8.8 | 203 | 11.4 | 184 | 7.1 |
| Asian/Pacific Islander | 25 | 0.6 | 11 | 0.6 | 14 | 0.5 |
| Native American | 14 | 0.3 | 6 | 0.3 | 8 | 0.3 |
| Other/unknown | 4 | 0.1 | 1 | 0.1 | 3 | 0.1 |
| **Age group (years) at death** |  |  |  |  |  |  |
| 0-12 | 2 | 0.0 | 0 | 0.0 | 2 | 0.1 |
| 13-19 | 9 | 0.2 | 3 | 0.2 | 6 | 0.2 |
| 20-29 | 113 | 2.6 | 18 | 1.0 | 95 | 3.6 |
| 30-39 | 383 | 8.7 | 75 | 4.2 | 308 | 11.8 |
| 40-49 | 1,425 | 32.5 | 385 | 21.7 | 1,040 | 39.9 |
| 50-59 | 1,571 | 35.9 | 734 | 41.3 | 837 | 32.1 |
| 60+ | 879 | 20.1 | 561 | 31.6 | 318 | 12.2 |
| **Year of HIV diagnosis** |  |  |  |  |  |  |
| ≤ 1996 | 2,057 | 46.9 | 882 | 49.7 | 1,175 | 45.1 |
| 1997-2000 | 1,094 | 25.0 | 431 | 24.3 | 663 | 25.4 |
| 2001-2005 | 899 | 20.5 | 326 | 18.4 | 573 | 22.0 |
| 2006-2010 | 311 | 7.1 | 127 | 7.2 | 184 | 7.1 |
| 2011-2013 | 21 | 0.5 | 10 | 0.6 | 11 | 0.4 |
| **Area-based poverty level - residence at death4** |  |  |  |  |  |  |
| Low poverty (<10% below FPL) | 240 | 5.5 | 130 | 7.3 | 110 | 4.2 |
| Medium poverty (10 to <20% below FPL) | 831 | 19.0 | 371 | 20.9 | 460 | 17.7 |
| High poverty (20 to <30% below FPL) | 1,360 | 31.0 | 545 | 30.7 | 815 | 31.3 |
| Very high poverty (≥30% below FPL) | 1,937 | 44.2 | 729 | 41.0 | 1,208 | 46.4 |
| Area-based poverty level not available | 14 | 0.3 | 1 | 0.1 | 13 | 0.5 |
| **Transmission risk** |  |  |  |  |  |  |
| Men who have sex with men | 697 | 15.9 | 304 | 17.1 | 393 | 15.1 |
| Injection drug use history (IDU) | 1,623 | 37.0 | 707 | 39.8 | 916 | 35.1 |
| MSM + IDU | 185 | 4.2 | 57 | 3.2 | 128 | 4.9 |
| Heterosexual5 | 829 | 18.9 | 282 | 15.9 | 547 | 21.0 |
| Perinatal | 48 | 1.1 | 10 | 0.6 | 38 | 1.5 |
| Other | 17 | 0.4 | 6 | 0.3 | 11 | 0.4 |
| Unknown | 983 | 22.4 | 410 | 23.1 | 573 | 22.0 |
| **Median time from last care6 to death, days (range)** | 26 (0 - 358) | 28 (0 - 297) | 26 (0 - 358) |
| **Time from last care6 to death** |  |  |  |  |  |  |
| 0 - 1 month | 2,460 | 56.1 | 961 | 54.1 | 1,499 | 57.5 |
| >1 month - 3 months | 1,396 | 31.9 | 587 | 33.1 | 809 | 31.0 |
| >3 - 6 months | 446 | 10.2 | 196 | 11.0 | 250 | 9.6 |
| >6 months | 80 | 1.8 | 32 | 1.8 | 48 | 1.8 |
| Not in care in NYC prior to death | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
|  |  |  |  |  |  |  |
| **Median CD4 count: earliest in 15 months prior to death, (cells/μL, range)** | 153 (0 - 4,475) | 306 (0 - 3,363) | 75 (0 - 4,475) |
| **CD4 count (cells/μL): earliest in 15 months prior to death** |  |  |  |  |  |  |
| ≤200 | 2,494 | 56.9 | 586 | 33.0 | 1,908 | 73.2 |
| 201 - 349 | 757 | 17.3 | 421 | 23.7 | 336 | 12.9 |
| 350 - 500 | 533 | 12.2 | 337 | 19.0 | 196 | 7.5 |
| ≥501 | 586 | 13.4 | 425 | 23.9 | 161 | 6.2 |
| Unknown - no CD4  | 12 | 0.3 | 7 | 0.4 | 5 | 0.2 |
|  |  |  |  |  |  |  |
| **Median CD4 count: most recent prior to death, (cells/μL, range)** | 89 (0 - 7,315) | 189.5 (1 - 7,315) | 41 (0 - 1,427) |
| **CD4 count (cells/μL) prior to death** |  |  |  |  |  |  |
| ≤200 | 2,572 | 58.7 | 767 | 43.2 | 1,805 | 69.3 |
| 201 - 349 | 537 | 12.3 | 320 | 18.0 | 217 | 8.3 |
| 350 - 500 | 270 | 6.2 | 178 | 10.0 | 92 | 3.5 |
| ≥501 | 303 | 6.9 | 217 | 12.2 | 86 | 3.3 |
| Unknown - no CD4 in 3 months prior to death | 700 | 16.0 | 294 | 16.6 | 406 | 15.6 |
|  |  |  |  |  |  |  |
| **Median HIV viral load quantity: earliest in 15 months prior to death (copies/mL)** | 5,586 (0 - 750,000) | 0 (0 - 750,000) | 52,537 (0 - 750,000) |
| **HIV viral load: earliest in 15 months prior to death** |  |  |  |  |  |  |
| ≤200 copies/mL | 1,568 | 35.8 | 1,248 | 70.3 | 320 | 12.3 |
| >200 copies/mL | 2,764 | 63.1 | 528 | 29.7 | 2,236 | 85.8 |
| Unknown - no VL in intervenable period | 50 | 1.1 | 0 | 0.0 | 50 | 1.9 |
|  |  |  |  |  |  |  |
| **Median HIV viral load quantity (copies/mL): most recent prior to death** | 661 (0 - 750,000) | 0 (0 - 750,000) | 22,272 (0 - 750,000) |
| **HIV viral load prior to death** |  |  |  |  |  |  |
| ≤200 copies/mL | 1,434 | 32.7 | 1,037 | 58.4 | 397 | 15.2 |
| >200 copies/mL | 1,829 | 41.7 | 287 | 16.2 | 1,542 | 59.2 |
| Unknown - no VL in 3 months prior to death | 1,119 | 25.5 | 452 | 25.5 | 667 | 25.6 |
| FPL= Federal poverty level |
| Data as reported to NYC Department of Health and Mental Hygiene by September 30, 2014 |
| 1 NYC residents with HIV who died during 2007-2013 (excluding persons diagnosed at death). HIV-related deaths includes those whose underlying cause of death was coded with one of four ICD codes that represent HIV disease: B20-B24 in ICD-10 nomenclature (see reference #10).  |
| 2 Retained in intervenable period: ≥2 CD4 or viral load tests ≥90 days apart. The intervenable period is defined as (the 12 months preceding the immediate pre-death period, defined as the 3 months leading up to death) |
| 3 Suppressed in intervenable period: defined as most recent viral load reported in the intervenable period was ≤200 copies/mL. |
| 4 Poverty level based on most recent NYC ZIP code of residence at death. Not available for persons missing ZIP code information or living outside NYC.  |
| 5 Includes persons who had heterosexual sex with a person they know to be HIV-infected, an injection drug user, or a person who has received blood products. For females only, also includes history of prostitution, multiple sex partners, sexually transmitted disease, crack/cocaine use, sex with a bisexual male, probable heterosexual transmission as noted in medical chart, or sex with a male and negative history of injection drug use. |
| 6 Last care defined as most recent CD4 or viral load prior to death.  |