Supplementary Online Content

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eTable 1. Age- and Sex-Standardized Rate Ratios for COVID-19 Diagnosis, Hospitalization, and In-Hospital Death, Comparing Persons Living With and Without Diagnosed HIV Infection, by Region—New York State, March 1-June 7, 2020

eTable 2. COVID-19 Diagnosis, Hospitalization, and In-Hospital Death per 1000, Among Persons Living With and Without Diagnosed HIV Infection—New York State (NYS), March 1-June 7, 2020

This supplementary material has been provided by the authors to give readers additional information about their work.
Table 1. Age- and Sex-Standardized Rate Ratios for COVID-19 Diagnosis, Hospitalization, and In-Hospital Death, Comparing Persons Living With and Without Diagnosed HIV Infection, by Region—New York State, March 1-June 7, 2020

| Rates per 1,000 population | Diagnosed with COVID-19 | Hospitalized with COVID-19 | In-hospital Death with COVID-19 |
|----------------------------|-------------------------|----------------------------|-------------------------------|
|                            | Standardized Rate Ratio (95% CI) | Standardized Rate Ratio (95% CI) | Standardized Rate Ratio (95% CI) |
| Long Island                | 1.33 (1.17-1.50)         | 1.64 (1.20-2.08)           | 1.80 (0.82-2.79)             |
| Mid-Hudson                 | 1.14 (1.00-1.30)         | 1.89 (1.34-2.43)           | 1.23 (0.15-2.31)             |
| New York City              | 0.88 (0.85-0.92)         | 1.32 (1.23-1.41)           | 1.20 (1.03-1.37)             |
| Rest of New York State (ROS) | 1.81 (1.43-2.19)       | 2.91 (1.77-4.06)           | 1.85 (0.00-3.95)             |
| Rates per previous stage   |                         |                           |                               |
| Long Island                | 1.34 (1.17-1.50)         | 1.27 (0.93-1.62)           | 1.09 (0.50-1.68)             |
| Mid-Hudson                 | 1.15 (1.00-1.30)         | 1.50 (1.07-1.94)           | 0.68 (0.08-1.28)             |
| New York City              | 0.90 (0.86-0.93)         | 1.47 (1.37-1.58)           | 0.96 (0.83-1.10)             |
| Rest of New York State (ROS) | 1.81 (1.44-2.19)       | 1.80 (1.09-2.50)           | 0.81 (0.00-1.72)             |

a. Persons diagnosed with COVID-19 through June 7, hospitalized through June 15

b. Denominator for “Diagnosed with COVID-19” is population, for “Hospitalized with COVID-19” is persons diagnosed with COVID-19, for “In-hospital Death with COVID-19” is persons hospitalized with COVID-19.
Table 2. COVID-19 Diagnosis, Hospitalization, and In-Hospital Death per 1000, Among Persons Living With and Without Diagnosed HIV Infection—New York State (NYS), March 1-June 7, 2020.a

| Age in Years | Population Size | Diagnosed with COVID-19 | Hospitalized with COVID-19 | In-hospital Death with COVID-19 |
|--------------|-----------------|-------------------------|---------------------------|-------------------------------|
|              | PLWDH | non-PLWDH | PLWDH | non-PLWDH | Rate Ratio (95% CI) | Rate Ratio (95% CI) | Rate Ratio (95% CI) |
| <40          | 27,154 | 9,902,345 | 492   | 18.12    | 121,871 | 12.31 | 1.47 (1.35-1.61) | 62   | 126.02 | 7,346 | 60.28 | 2.09 (1.63-2.68) | 4   | 64.52 | 254 | 34.58 | 1.87 (0.69-5.01) |
| 40-<60       | 53,632 | 4,925,972 | 1,400 | 26.10    | 133,095 | 27.02 | 0.97 (0.92-1.02) | 356  | 254.29 | 15,925 | 119.65 | 2.13 (1.91-2.36) | 67  | 188.20 | 1,952 | 122.57 | 1.54 (1.20-1.96) |
| 60+          | 27,274 | 4,517,182 | 1,096 | 40.18    | 119,291 | 26.41 | 1.52 (1.43-1.62) | 478  | 436.13 | 38,096 | 319.35 | 1.37 (1.25-1.50) | 136  | 284.52 | 12,316 | 323.29 | 0.88 (0.74-1.04) |
| **Total**    | 108,062 | 19,345,499 | 2,988 | 27.65    | 375,260 | 19.40 | 1.43 (1.38-1.48) | 896  | 299.87 | 61,371 | 163.54 | 1.83 (1.72-1.96) | 207  | 231.03 | 14,522 | 236.63 | 0.98 (0.85-1.12) |

a. Persons diagnosed with COVID-19 through June 7, hospitalized through June 15.

b. Persons living with diagnosed HIV infection (PLWDH) as of the end of December 2019, per data as of July 2020. 2 persons had unknown age and 11 were living in NYS as of the end of 2019 but living out of state at COVID-19 diagnosis, classifying them as out of state for “region of residence”.

c. Age was at diagnosis for those with diagnosed COVID-19. For individuals with diagnosed HIV but not diagnosed COVID-19, age as of 12/31/2019 was used. Individuals under age 18 are included in the “<40” group. Among non-PLWDH, 1,003 diagnosed and 4 hospitalized had unknown age.

d. Sex at birth was used for PLWDH, sex for non-PLWDH may include current gender identity. Among non-PLWDH, 18 diagnosed and 1 hospitalized had ‘other’ sex; 2,265 diagnosed, 123 hospitalized, and 21 with in-hospital death had unknown sex.

e. Region of residence was defined as follows: For persons with and without HIV diagnosed with COVID-19, region was defined based on the county of residence at COVID-19 diagnosis. For persons with an HIV diagnosis, but not diagnosed with COVID-19, region was based on the last known county of residence recorded in the HIV surveillance registry as of year-end 2019. Among non-PLWDH, 3,875 diagnosed, 36 hospitalized, and 7 with in-hospital death were out of state residents; 1,442 diagnosed, 81 hospitalized, and 23 with in-hospital death had ‘unknown’ region of residence.

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