Supplemental Digital Content 1. Observed versus predicted estimates of unemployment, subsistence needs, and mental health among adults with diagnosed HIV—United States, June-November, 2020

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|  |  | **Unemployeda** | **Homelessnessb** | **Gap in health insurance or coverage** | **Went without food due to lack of money** | **Unable to pay medical billsc** | **Unmet need for subsistence servicesd** | **Major or other  depression symptomse** | **Moderate to severe  GAD symptomsf** |
| Overall | **Observed valueg** | **17.2** | 8.2 | 7.5 | 17 | 16.8 | 19.3 | 15.8 | 13.5 |
|  | **Predicted valueh** | 12.2 | 8.3 | 8.5 | 18.7 | 17.5 | 22.9 | 14.5 | 14.3 |
|  | **Prediction intervali** | (8.3–16.0) | (6.0 –10.6) | (3.3–13.7) | (15.6–21.7) | (12.8–22.1) | (16.5–29.3) | (9.6–19.3) | (11.9–16.7) |
| Men | **Observed valueg** | **17.5** | 8.1 | 8.2 | 16.4 | 16.8 | 17.7 | 14.4 | 12.7 |
|  | **Predicted valueh** | 12.5 | 8.0 | 8.5 | 17.2 | 17.2 | 20.5 | 12.8 | 13.2 |
|  | **Prediction intervali** | (10.0–15.0) | (4.8 –11.2) | (3.6–13.4) | (14.9–19.5) | (12.1–22.2) | (14.3–26.7) | (9.4–16.2) | (11.0–15.4) |
| Women | **Observed valueg** | 14.6 | **7.0** | 5.4 | 17.9 | 16.7 | 23.9 | 19 | 15.1 |
|  | **Predicted valueh** | 10.7 | 8.4 | 7.7 | 21.3 | 17.3 | 28.3 | 18.1 | 16.1 |
|  | **Prediction intervali** | (3.1–18.3) | (7.9 –8.9) | (0.9–14.5) | (13.3–29.3) | (12.0–22.5) | (15.6–41.0) | (6.8–29.5) | (11.5–20.6) |
| Age 18-29 | **Observed valueg** | **30.3** | 17.8 | 23.2 | 29.3 | 21.7 | 28 | 14.8 | 16 |
|  | **Predicted valueh** | 16.1 | 15.1 | 21.3 | 29.7 | 22.7 | 34.4 | 15.6 | 17.4 |
|  | **Prediction intervali** | (7.1–25.0) | (8.2 –22.1) | (1.6–41.1) | (10.6–48.8) | (8.7–36.7) | (13.9–54.9) | (2.5–28.8) | (5.0–29.7) |
| Age 30-49 | **Observed valueg** | **21.8** | 11.5 | 11.1 | **20.3** | 18.3 | **22.7** | 17.8 | 15.3 |
|  | **Predicted valueh** | 15.9 | 9.8 | 11.5 | 23 | 21.1 | 28.6 | 16.2 | 18.6 |
|  | **Prediction intervali** | (11.2–20.7) | (6.1 –13.4) | (4.2–18.8) | (21.0–24.9) | (15.5–26.7) | (23.9–33.3) | (5.7–26.8) | (10.7–26.5) |
| Age 50+ | **Observed valueg** | 13.3 | 5.3 | 3.9 | 14 | 15.5 | 16.6 | 14.9 | 12.2 |
|  | **Predicted valueh** | 9.7 | 6.8 | 5.6 | 15.2 | 15 | 18.3 | 13.4 | 11.7 |
|  | **Prediction intervali** | (5.3–14.2) | (5.1 –8.5) | (2.3–8.9) | (9.4–21.1) | (8.3–21.7) | (11.7–24.9) | (8.8–18.1) | (9.5–13.9) |
| Black/African American | **Observed valueg** | 18.3 | 10.2 | 9.4 | 18.2 | 19.7 | 25.4 | 13.3 | 10 |
|  | **Predicted valueh** | 12.7 | 10.4 | 9.8 | 21 | 18.4 | 28.4 | 11.7 | 10.1 |
|  | **Prediction intervali** | (5.4–19.9) | (6.1 –14.7) | (3.6–16.0) | (14.2–27.8) | (12.9–24.0) | (17.5–39.3) | (5.4–18.1) | (5.4–14.7) |
| Hispanic/Latino | **Observed valueg** | 18.8 | 7.6 | 7.5 | 20.9 | 13.9 | 17.1 | 15.8 | 14.3 |
|  | **Predicted valueh** | 14.4 | 5.5 | 9.2 | 18.5 | 15.7 | 19 | 14.1 | 13.5 |
|  | **Prediction intervali** | (8.6–20.3) | (-0.2–11.2) | (2.6–15.8) | (14.3–22.7) | (8.0–23.3) | (10.9–27.0) | (4.4–23.8) | (8.4–18.5) |
| White | **Observed valueg** | **14.5** | 4.6 | 5.3 | 11.9 | 14.9 | 11.1 | 19.7 | 16.3 |
|  | **Predicted valueh** | 9.5 | 5.9 | 5.8 | 13.6 | 15.6 | 15.7 | 17.5 | 19.7 |
|  | **Prediction intervali** | (5.8–13.2) | (2.7 –9.0) | (-0.4–12.0) | (6.4–20.8) | (11.8–19.4) | (9.7–21.8) | (11.0–24.1) | (14.2–25.1) |
| <100% of FPLj | **Observed valueg** | 19.8 | 13.0 | 7 | 25.9 | 15.5 | 25 | 19.3 | 17 |
|  | **Predicted valueh** | 15.9 | 12.7 | 7.8 | 26.4 | 14.2 | 27.8 | 18.7 | 17.2 |
|  | **Prediction intervali** | (9.2–22.7) | (11.7–13.6) | (1.7–13.9) | (17.9–35.0) | (11.5–17.0) | (21.1–34.4) | (8.7–28.7) | (15.7–18.6) |
| 100%-<139% of FPLj | **Observed valueg** | 19.7 | 9.7 | 10.4 | 20.7 | 21.7 | **22.1** | 17.4 | 15.5 |
|  | **Predicted valueh** | 9.6 | 6.5 | 9.2 | 23 | 24.8 | 31.1 | 16.5 | 14 |
|  | **Prediction intervali** | (-2.1–21.4) | (-2.1–15.1) | (2.0–16.3) | (19.2–26.7) | (15.8–33.8) | (23.3–38.9) | (14.8–18.3) | (5.2–22.7) |
| 139%-<400% of FPLj | **Observed valueg** | **15.8** | 4.3 | 7.9 | 11.3 | 20.9 | 17.4 | 14.8 | 9.9 |
|  | **Predicted valueh** | 9.8 | 5.5 | 11 | 12.2 | 23.5 | 18.6 | 13.1 | 15.2 |
|  | **Prediction intervali** | (4.5–15.2) | (-0.2–11.3) | (5.1–16.9) | (2.1–22.3) | (12.1–34.9) | (9.0–28.2) | (7.9–18.2) | (7.3–23.0) |
| >=400% of FPLj | **Observed valueg** | **8.9** | 3.4 | 5.8 | 3.1 | 7.4 | 3.4 | **8.9** | **11** |
|  | **Predicted valueh** | 3.2 | 1.4 | 4.1 | 2.1 | 5.3 | 5.3 | 5.1 | 4.7 |
|  | **Prediction intervali** | (-0.1–6.5) | (-2.8–5.7) | (-2.2–10.4) | (-3.4–7.7) | (-0.5–11.1) | (-1.6–12.1) | (1.8–8.4) | (1.7–7.6) |
| Receiving RWHAP support | **Observed valueg** | 18.9 | 9.9 | 9.5 | 19.5 | 23.2 | 21.8 | 17.9 | 14.4 |
|  | **Predicted valueh** | 13.2 | 8.4 | 10.0 | 20.9 | 21.8 | 25.5 | 15.5 | 15.0 |
|  | **Prediction intervali** | (6.4–19.9) | (6.1 –10.8) | (-0.1–20.2) | (15.7–26.1) | (18.4–25.2) | (16.4–34.6) | (10.9–20.1) | (12.3–17.8) |
| Not receiving RWHAP support | **Observed valueg** | **15.1** | 5.9 | 5.1 | 14.3 | 10.0 | 16.3 | 13.8 | 12.8 |
|  | **Predicted valueh** | 10.8 | 7.7 | 6.6 | 16.1 | 13.1 | 20.2 | 13.1 | 13.3 |
|  | **Prediction intervali** | (8.2–13.5) | (4.2 –11.3) | (4.4–8.7 ) | (12.3–19.9) | (5.4–20.7) | (13.4–27.0) | (7.4–18.8) | (8.7–17.8) |

Notes: FPL, federal poverty level; RWHAP, Ryan White HIV/AIDS Program; all estimates based on self-report and measurec over the past 12 months except where otherwise specified.

a Current unemployment

b Living on the street, in a shelter, in a single-room–occupancy hotel, or in a car.

c Had problems paying or were unable to pay any medical bills for one’s own care.

d Subsistence services included: Supplemental Nutrition Assistance Program or Special Supplemental Nutrition Program for Women, Infants, and Children services, meal or food services, transportation assistance, or shelter or housing services.

e Responses to the items on the PHQ-8 were used to define “major depression” and “other depression,” according to criteria from the DSM-IV.

f Responses to the GAD-7 were used to define symptoms consistent with a diagnosis of generalized axiety disorder according to criteria from the DSM-IV.

g Observed unweighed estimate among adults with HIV interviewed June through November 2020.

h Predicted unweighted estimates for June through November 2020 based on linear regression modeling of annual observed estimates June through November during 2015 through 2019.

i 95% prediction interval for the predicted value.

j Based on total household income during the prior calendar year and household size; poverty guidelines as defined by US Health and Human Services; the 2019 guidelines were used for persons interviewed in 2020.