Supplementary Online Content

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eTable 1. Difference Between Clinically Documented Diagnoses and Survey-Based Prevalence of Alcohol Use Disorders (AUD), Drug Use Disorders (DUD), and Substance Use Disorders (SUD) in a Survey-Respondent VA Outpatient Population From 30 Geographically Diverse Facilities

eTable 2. Clinically Documented Diagnosis Rates and Survey-Based Prevalence of Moderate/Severe Alcohol Use Disorders (AUD), Drug Use Disorders (DUD), and Substance Use Disorders (SUD) in a Survey-Respondent VA Outpatient Population From 30 Geographically Diverse Facilities

This supplementary material has been provided by the authors to give readers additional information about their work.
### eTable 1. Difference Between Clinically Documented Diagnoses and Survey-Based Prevalence of Alcohol Use Disorders (AUD), Drug Use Disorders (DUD), and Substance Use Disorders (SUD) in a Survey-Respondent VA Outpatient Population From 30 Geographically Diverse Facilities

|                      | AUD Clinically-Documented Diagnoses (Dx) | AUD Survey-Based Prevalence (Referent Standard) (Pr) | Difference Dx-Pr | Difference in Difference between subgroups | p-value |
|----------------------|------------------------------------------|-----------------------------------------------------|------------------|-------------------------------------------|---------|
| **Overall**          |                                          |                                                     |                  |                                           |         |
| N                    | 360                                      | 10.1 (9.2-11.1)                                     | -4.2 (-4.9, -3.3) | --                                        |         |
| **Gender**           |                                          |                                                     |                  |                                           |         |
| Male                 | 346                                      | 10.4 (9.5-11.4)                                     | -4.1 (-4.9, -3.3) | Ref                                       |         |
| Female               | 14                                       | 7.0 (5.3-9.1)                                       | -4.4 (-6.6, -2.4) | -0.3                                      | 0.76    |
| **Age**              |                                          |                                                     |                  |                                           |         |
| 18-34                | 27                                       | 22.4 (17.3-28.5)                                    | -15.4 (-19.4, -11.6) | Ref                                       |         |
| 35-49                | 86                                       | 18.1 (15.6-20.9)                                    | -8.0 (-10.7, -5.2) | 7.5                                       | <0.01   |
| 50-64                | 123                                      | 11.2 (9.6-13.1)                                     | -3.1 (-4.8, -1.4) | 12.2                                      | <0.01   |
| 65-74                | 104                                      | 7.9 (6.6-9.5)                                       | -2.8 (-3.9, -1.6) | 12.6                                      | <0.01   |
| 75+                  | 20                                       | 3.0 (2.2-4.1)                                       | -1.3 (-2.5, -0.2) | 14.1                                      | <0.01   |
| **Race/ethnicity**   |                                          |                                                     |                  |                                           |         |
| Black (NH)           | 95                                       | 13.0 (10.9-15.6)                                    | -4.1 (-6.4, -1.8) | -0.5                                      | 0.68    |
| Hispanic/Latinx      | 31                                       | 17.7 (14.0-22.1)                                    | -10.0 (-13.9, -6.3) | -6.5                                      | <0.01   |
| White (NH)           | 206                                      | 8.6 (7.4-9.8)                                       | -3.6 (-4.5, -2.7) | Ref                                       |         |
| Multirace            | 21                                       | 9.6 (6.6-13.8)                                      | -0.8 (-4.6, 3.4)  | 2.8                                       | 0.17    |
| Other                | 7                                        | 11.9 (8.7-16.2)                                     | -7.9 (-13.4, -2.5) | -4.3                                      | 0.13    |
| **DUD Clinically-Documented Diagnoses (Dx)** |                                          |                                                     |                  |                                           |         |
| **Overall**          |                                          |                                                     |                  |                                           |         |
| N                    | 275                                      | 4.8 (3.9-5.6)                                       | -0.1 (-0.8, 0.4)  | --                                        |         |
| **Gender**           |                                          |                                                     |                  |                                           |         |
| Male                 | 259                                      | 4.8 (4.0-5.8)                                       | -0.1 (-0.8, 0.5)  | Ref                                       |         |
| Female               | 16                                       | 3.3 (2.1-5.1)                                       | -0.4 (-2.0, 1.2)  | -0.3                                      | 0.75    |
| **Age**              |                                          |                                                     |                  |                                           |         |
| 18-34                | 21                                       | 10.1 (7.2-14.0)                                     | -4.7 (-8.1, -1.4) | Ref                                       |         |
| 35-49                | 53                                       | 7.6 (5.8-9.8)                                       | -1.4 (-3.2, 0.5)  | 3.3                                       | 0.08    |
| 50-64                | 109                                      | 6.7 (5.2-8.7)                                       | 0.5 (1.0, 1.9)    | 5.2                                       | 0.01    |
| 65-74                | 81                                       | 3.6 (2.7-4.6)                                       | 0.4 (0.6, 1.4)    | 5.1                                       | <0.01   |
| 75+                  | 11                                       | 0.3 (0.1-1.1)                                       | 0.6 (0.0, 1.1)    | 5.3                                       | <0.01   |
| **Race/ethnicity**   |                                          |                                                     |                  |                                           |         |
| Black (NH)           | 99                                       | 7.4 (5.6-9.8)                                       | 0.0 (-1.8, 1.9)   | 0.0                                       | 0.99    |
| Hispanic/Latinx      | 33                                       | 8.1 (6.0-10.8)                                      | -1.3 (-4.2, 1.7)  | -1.4                                      | 0.36    |
| White (NH)           | 136                                      | 3.3 (2.7-4.1)                                       | 0.0 (-0.6, 0.7)   | Ref                                       |         |
| Multirace            | 21                                       | 8.7 (5.7-13.1)                                      | -1.1 (-4.8, 2.6)  | -1.2                                      | 0.52    |
| Other                | 13                                       | 6.9 (3.9-11.7)                                      | -0.9 (-4.6, 2.7)  | -0.9                                      | 0.63    |

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|                | N   | % (95% CI) | N   | % (95% CI) | Difference (95% CI) | p-value |
|----------------|-----|------------|-----|------------|----------------------|---------|
| **Overall**    | 515 | 8.5 (7.5-9.6) | 768 | 12.8 (11.7-13.9) | -4.2 (-5.1, -3.3) | --      |
| **Gender**     |     |            |     |            |                      |         |
| Male           | 490 | 8.9 (7.9-10.1) | 716 | 13.1 (12.0-14.3) | -4.2 (-5.1, -3.2) | Ref     |
| Female         | 25  | 4.5 (3.0-6.6)  | 52  | 9.2 (7.2-11.8)   | -4.7 (-7.3, -2.3) | 0.5     | 0.66    |
| **Age**        |     |            |     |            |                      |         |
| 18-34          | 41  | 10.5 (8.1-13.4) | 109 | 27.7 (22.6-33.3) | -17.2 (-21.7, -12.8) | Ref     |
| 35-49          | 110 | 12.9 (11.2-14.8) | 187 | 22.1 (19.6-24.8) | -9.2 (-12.0, -6.3) | 8.0     | <0.01   |
| 50-64          | 180 | 11.8 (9.7-14.3) | 230 | 15.2 (13.5-17.1) | -3.3 (-5.2, -1.4)  | 13.9    | <0.01   |
| 65-74          | 155 | 7.6 (6.2-9.3)  | 203 | 10.0 (8.5-11.7)  | -2.4 (-3.8, -1.0)  | 14.8    | <0.01   |
| 75+            | 29  | 2.4 (1.7-3.4)  | 39  | 3.2 (2.3-4.5)    | -0.8 (-2.0, 0.3)   | 16.4    | <0.01   |
| **Race/ethnicity** |   |            |     |            |                      |         |
| Black (NH)     | 137 | 13.0 (11.2-15.0) | 182 | 17.1 (14.8-19.6) | -4.1 (-6.6, -1.7)  | -0.5    | 0.69    |
| Hispanic/Latinx| 48  | 11.7 (7.9-16.9) | 88  | 21.6 (18.0-25.8) | -10.0 (-14.4, -5.8) | -6.4    | <0.01   |
| White (NH)     | 288 | 6.9 (6.1-7.9)  | 434 | 10.5 (9.4-11.8)  | -3.6 (-4.6, -2.6)  | Ref     |
| Mutirace       | 29  | 12.2 (9.0-16.4) | 36  | 15.0 (11.3-19.7) | -2.7 (-7.5, 1.6)   | 0.8     | 0.72    |
| Other          | 13  | 7.3 (4.5-11.4)  | 28  | 15.6 (11.5-20.9) | -8.4 (-14.3, -2.7) | -4.7    | 0.10    |

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**eTable 2. Clinically Documented Diagnosis Rates and Survey-Based Prevalence of Moderate/Severe Alcohol Use Disorders (AUD), Drug Use Disorders (DUD), and Substance Use Disorders (SUD) in a Survey-Respondent VA Outpatient Population From 30 Geographically Diverse Facilities**

|                         | AUD Clinically-Documented Diagnoses (Dx) | Moderate to Severe AUD Survey-Based Prevalence (Referent Standard) (Pr) | Sensitivity | Absolute difference Sensitivity | Specificity | Absolute difference Specificity |
|-------------------------|------------------------------------------|------------------------------------------------------------------------|-------------|---------------------------------|-------------|---------------------------------|
| **Race/ethnicity**      |                                          |                                                                        |             |                                 |             |                                 |
| Black (NH)              | N 360 % (95% CI) 6.0 (5.3-6.7)            | N 311 % (95% CI) 5.1 (4.5-5.8)                                        | 42.5        | (37.9-47.3)                     | 96.0        | (95.5-96.5)                     |
| Hispanic/Latinx         | N 346 % (95% CI) 6.3 (5.5-7.2)            | N 544 % (95% CI) 5.3 (4.6-6.0)                                        | 43.3        | (38.3-48.5)                     | 95.8        | (95.2-96.8)                     |
| White (NH)              | N 104 % (95% CI) 5.1 (4.1-6.4)            | N 70 % (95% CI) 3.5 (2.6-4.6)                                        | 50.9        | (39.3-62.4)                     | 96.5        | (95.7-97.2)                     |
| Multirace               | N 70 % (95% CI) 1.7 (1.1-2.6)             | N 13 % (95% CI) 1.1 (0.6-2.0)                                        | 30.7        | (12.0-58.9)                     | 98.6        | (97.8-99.1)                     |
| **Gender**              |                                          |                                                                        |             |                                 |             |                                 |
| Male                    | N 346 % (95% CI) 6.3 (5.5-7.2)            | N 544 % (95% CI) 5.3 (4.6-6.0)                                        | 43.3        | (38.3-48.5)                     | 95.8        | (95.2-96.8)                     |
| Female                  | N 14 % (95% CI) 2.5 (1.6-3.9)             | N 22 % (95% CI) 3.8 (2.7-5.5)                                        | 31.6        | (14.4-55.9)                     | 98.7        | (97.3-99.3)                     |
| **Age**                 |                                          |                                                                        |             |                                 |             |                                 |
| 18-34                   | N 27 % (95% CI) 6.9 (4.8-9.9)             | N 53 % (95% CI) 13.5 (10.2-17.7)                                     | 33.8        | (23.4-46.0)                     | 0.1757      | (97.3-98.6)                     |
| 35-49                   | N 86 % (95% CI) 10.1 (8.6-11.8)           | N 81 % (95% CI) 9.4 (7.5-11.8)                                       | 41.8        | (31.4-53.0)                     | 93.2        | (91.4-94.7)                     |
| 50-64                   | N 123 % (95% CI) 8.1 (6.4-10.2)           | N 94 % (95% CI) 6.2 (5.0-7.7)                                        | 43.5        | (31.1-56.8)                     | 94.2        | (92.4-95.7)                     |
| 65-74                   | N 104 % (95% CI) 5.1 (4.1-6.4)            | N 70 % (95% CI) 3.5 (2.6-4.6)                                        | 50.9        | (39.3-62.4)                     | 96.5        | (95.7-97.2)                     |
| 75+                     | N 20 % (95% CI) 1.7 (1.1-2.6)             | N 13 % (95% CI) 1.1 (0.6-2.0)                                        | 30.7        | (12.0-58.9)                     | 98.6        | (97.8-99.1)                     |
| **DUD Clinically-Documented Diagnoses (Dx)** |                                          |                                                                        |             |                                 |             |                                 |
| **Race/ethnicity**      |                                          |                                                                        |             |                                 |             |                                 |
| Black (NH)              | N 95 % (95% CI) 9.0 (7.7-10.4)            | N 73 % (95% CI) 6.9 (5.4-8.6)                                        | 50.9        | (42.3-59.4)                     | 0.0036      | (94.1-92.3-95.6) |
| Hispanic/Latinx         | N 31 % (95% CI) 7.6 (5.3-10.8)            | N 43 % (95% CI) 10.5 (7.0-15.5)                                      | 27.4        | (16.3-42.2)                     | 94.7        | (92.0-96.6)                     |
| White (NH)              | N 206 % (95% CI) 5.0 (4.1-5.9)            | N 177 % (95% CI) 4.3 (3.5-5.2)                                       | 43.5        | (38.6-48.5)                     | 96.8        | (96.2-97.3)                     |
| Multirace               | N 21 % (95% CI) 8.8 (5.7-13.4)            | N 10 % (95% CI) 4.1 (2.6-6.6)                                        | 58.5        | (26.8-84.4)                     | 93.3        | (89.2-95.9)                     |
| Other                   | N 7 % (95% CI) 4.0 (2.2-7.4)              | N 8 % (95% CI) 4.3 (2.6-7.2)                                        | 11.6        | (1.3-56.3)                      | 96.3        | (93.0-98.1)                     |
| **Gender**              |                                          |                                                                        |             |                                 |             |                                 |
| Male                    | N 259 % (95% CI) 4.7 (3.8-5.7)            | N 126 % (95% CI) 2.3 (1.8-2.8)                                       | 48.3        | (35.5-61.3)                     | 0.9157      | (96.3-95.6-97.0) |
| Female                  | N 16 % (95% CI) 2.9 (1.6-3.3)             | N 6 % (95% CI) 1.2 (1.8-2.7)                                        | 50.4        | (22.3-77.8)                     | 97.7        | (95.5-99.8)                     |
| **Age**                 |                                          |                                                                        |             |                                 |             |                                 |
| 18-34                   | N 21 % (95% CI) 5.4 (3.7-7.8)             | N 13 % (95% CI) 3.4 (1.9-6.0)                                        | 31.2        | (11.4-61.5)                     | 0.5474      | (95.5-93.5-96.9) |
| 35-49                   | N 53 % (95% CI) 6.2 (5.0-7.7)             | N 43 % (95% CI) 5.1 (3.8-6.9)                                        | 50.5        | (35.5-65.5)                     | 96.2        | (95.1-97.1)                     |
| 50-64                   | N 109 % (95% CI) 7.2 (5.4-9.4)            | N 44 % (95% CI) 2.9 (2.0-4.2)                                        | 45.5        | (27.8-64.5)                     | 94.0        | (92.1-95.4)                     |
| 65-74                   | N 81 % (95% CI) 4.0 (2.9-5.5)             | N 30 % (95% CI) 1.5 (1.1-2.0)                                        | 57.0        | (42.0-70.9)                     | 96.8        | (95.4-97.8)                     |
| 75+                     | N 11 % (95% CI) 0.9 (0.5-1.7)             | N 2 % (95% CI) 0.2 (0.0-0.7)                                        | 50.0        | (5.0-95.0)                      | 99.2        | (98.4-99.6)                     |
| Race/ethnicity | DUD Clinically- Documented Diagnoses (Dx) | Moderate to Severe DUD Survey-Based Prevalence (Referent Standard) (Pr) | Sensitivity | Absolute difference Sensitivity | Specificity | Absolute difference Specificity |
|---------------|------------------------------------------|-------------------------------------------------|-------------|-------------------------------|-------------|--------------------------------|
|               | N | % (95% CI) | N | % (95% CI) | p-value | p-value |
| Black (NH)    | 79 | 7.5 (6.0-9.3) | 45 | 4.5 (3.2-5.7) | 50.9 (37.4-64.2) | 0.5408 | 94.5 (92.8-95.8) |
| Hispanic/Latinx | 28 | 6.8 (3.3-13.5) | 15 | 3.7 (2.5-5.4) | 59.6 (27.2-85.4) | 0.9657 | 95.3 (90.0-97.8) |
| White (NH)    | 139 | 3.3 (2.8-4.0) | 58 | 1.4 (1.0-1.9) | 39.5 (25.3-55.7) | 0.972 | 96.5 (97.0-97.7) |
| Multirace     | 18 | 7.5 (5.1-10.9) | 6 | 2.6 (1.2-5.6) | 67.6 (23.2-93.5) | 0.151 | 94.1 (91.0-96.2) |
| Other         | 11 | 6.0 (3.1-11.4) | 8 | 4.5 (2.1-9.4) | 61.3 (25.5-88.0) | 0.757 | 96.6 (91.2-98.7) |

| Race/ethnicity | SUD Clinically- Documented Diagnoses (Dx) | Moderate to Severe SUD Survey-Based Prevalence (Referent Standard) (Pr) | Sensitivity | Absolute difference Sensitivity | Specificity | Absolute difference Specificity |
|---------------|------------------------------------------|-------------------------------------------------|-------------|-------------------------------|-------------|--------------------------------|
|               | N | % (95% CI) | N | % (95% CI) | p-value | p-value |
| Overall       | 515 | 8.5 (7.5-9.6) | 390 | 6.5 (5.7-7.3) | 46.8 (41.7-52.0) | 0.0138 | 94.1 (93.3-94.9) |
| Gender        | | | | | | | |
| Male          | 490 | 8.9 (7.9-10.1) | 364 | 6.6 (5.8-7.5) | 47.9 (42.1-53.7) | 0.1338 | 93.9 (93.0-94.6) |
| Female        | 25 | 4.5 (3.0-6.6) | 26 | 4.7 (3.5-6.3) | 31.1 (15.7-52.3) | 0.0021 | 96.7 (94.6-98.2) |
| Age           | | | | | | | |
| 18-34         | 41 | 10.5 (8.1-13.4) | 61 | 15.6 (11.8-20.3) | 34.4 (24.4-46.1) | 0.0315 | 94.0 (91.2-95.9) |
| 35-49         | 110 | 12.9 (11.2-14.8) | 106 | 12.4 (10.2-15.1) | 45.0 (35.5-54.9) | 0.0021 | 91.2 (89.5-93.4) |
| 50-64         | 180 | 11.8 (9.7-14.3) | 118 | 7.8 (6.5-9.3) | 48.5 (35.9-61.2) | 0.0021 | 91.3 (88.9-93.1) |
| 65-74         | 155 | 7.6 (6.2-9.3) | 91 | 4.5 (3.5-5.7) | 56.7 (47.3-65.7) | 0.0001 | 94.7 (93.4-95.7) |
| 75+           | 29 | 2.4 (1.7-3.4) | 14 | 1.2 (0.6-2.1) | 35.6 (14.2-65.0) | 0.0001 | 98.0 (97.0-98.6) |
| Race/ethnicity | | | | | | | |
| Black (NH)    | 137 | 13.0 (11.2-15.0) | 100 | 9.4 (8.1-10.9) | 55.1 (46.7-63.4) | 0.0181 | 91.4 (89.2-93.2) |
| Hispanic/Latinx | 48 | 11.7 (7.9-16.9) | 49 | 12.0 (8.3-17.1) | 36.3 (23.6-51.2) | 0.0109 | 91.7 (87.2-94.7) |
| White (NH)    | 288 | 6.9 (6.1-7.9) | 213 | 5.1 (4.3-6.2) | 44.1 (39.8-49.5) | 0.0109 | 95.1 (94.3-95.7) |
| Multirace     | 29 | 12.2 (9.0-16.4) | 15 | 6.3 (4.2-9.4) | 67.1 (43.3-84.5) | 0.0109 | 91.5 (87.6-94.3) |
| Other         | 13 | 7.3 (4.5-11.4) | 13 | 7.2 (4.5-11.4) | 44.7 (24.5-66.8) | 0.0109 | 95.7 (91.3-97.9) |