**Table 6a.** Descriptive Statistics of the Test and Validation Samples, Overall for Six Facility Groups in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics**  | **Test Sample** | **Validation Sample** | **P-Value** |
| ***Abnormal screening mammograms — no. (%)***  | 38,290 (100) | 38,308 (100) |   |
| ***Timely diagnostic resolution — no.***  | 35,185 | 35,119 |   |
| ***eCQM rate of timely diagnostic resolution — %***  | 91.9% | 91.7% | 0.28 |
| ***Number of facility groups — no.***  | 6 | 6 |   |
| ***Number of measurement years — no. (range of years)***  | 6 (2018-2023) | 6 (2018-2023) |   |
| ***Age at index abnormal screening mammogram*** |  |  |   |
|      Mean (SD) — yr  | 55.2 (10.1) | 55.1 (10.1) | 0.11 |
|      Distribution — no. (%)  |  |  | 0.28 |
|           45 to 49 yr  | 6,426 (20.5) | 6,537 (20.9) |   |
|           50 to 64 yr  | 16,311 (52) | 16,303 (52.1) |   |
|           65 to 75 yr  | 8,633 (27.5) | 8,462 (27.0) |   |
| ***Race — no. (%)***  |  |  | 0.57 |
|      Asian  | 1,983 (5.2) | 2,032 (5.3) |   |
|      Black  | 2,346 (6.1) | 2310 (6.0) |   |
|      White  | 30,578 (79.9) | 30,676 (80.1) |   |
|      Other\* | 102 (0.27) | 109 (0.28) |   |
|      Unknown  | 3,271 (8.5) | 3,167 (8.3) |   |
| ***Ethnic group — no. (%)***  |  |  | **0.046** |
|     Hispanic  | 3,294 (9.3) | 3,276 (9.2) |   |
|     Non-Hispanic  | 31,866 (89.9) | 31,789 (89.7) |  |
|     Unknown  | 307 (0.87) | 3.71 (1.1) |   |
| ***Primary insurance at index mammogram— no. (%)***  |  |  | 0.41 |
|      Private  | 28,243 (73.8) | 28,264 (73.8) |   |
|      Medicare  | 7,576 (19.8) | 7,550 (19.7) |   |
|      Medicaid  | 813 (2.1) | 791 (2.1) |   |
|      Other  | 236 (0.62) | 208 (0.54) |   |
|      Unknown  | 1,422 (3.7) | 1,495 (3.9) |   |
| ***Primary language — no. (%)***  |  |  | 0.89 |
|      English  | 35,477 (92.7) | 35,528 (92.7) |   |
|      Spanish  | 1,694 (4.4) | 1,655 (4.3) |   |
|      Other  | 863 (2.3) | 861 (2.3) |   |
|      Unknown  | 256 (0.67) | 264 (0.69) |   |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 6b**. Descriptive Statistics of the Test and Validation Samples for Facility Group 1 in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **Test Sample** | **Validation Sample** | **P-Value** |
| ***eCQM rate of timely diagnostic resolution — %*** | 87.2% | 86.1% | 0.33 |
| ***Number of measurement years — no. (range of years)*** | 6 (2018-2023) | 6 (2018-2023) |  |
| ***Age at index abnormal screening mammogram*** |  |  | 0.68 |
|  Mean (SD) — yr | 56.2 (10.3) | 56.0 (10.1) |  |
|  Distribution — % |  |  | 0.98 |
|  45 to 49 yr | 18.2 | 18.5 |  |
|  50 to 64 yr | 50.9 | 50.8 |  |
|  65 to 75 yr | 30.9 | 30.7 |  |
| ***Race — %*** |  |  | 0.12 |
|  Asian | 2.3 | 2.9 |  |
|  Black | 1.8 | 2.0 |  |
|  White | 86.2 | 87.1 |  |
|  Other\* | 0.4 | 0.1 |  |
|  Unknown | 9.2 | 7.8 |  |
| ***Ethnic group — %*** |  |  | 0.11 |
|  Hispanic | 4.5 | 3.2 |  |
|  Non-Hispanic | 94.2 | 95.5 |  |
|  Unknown | 1.3 | 1.3 |  |
| ***Primary insurance at index abnormal screening mammogram— %*** |  |  | 0.78 |
|  Private | 74.9 | 73.4 |  |
|  Medicare | 22.3 | 23.5 |  |
|  Medicaid | 1.1 | 1.1 |  |
|  Other | 0.2 | 0.4 |  |
|  Unknown | 1.5 | 1.6 |  |
| ***Primary language — %*** |  |  | 0.34 |
|  English | 95.5 | 95.6 |  |
|  Spanish | 0.8 | 0.5 |  |
|  Other | 1.1 | 1.5 |  |
|  Unknown | 2.6 | 2.5 |  |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 6c**. Descriptive Statistics of the Test and Validation Samples for Facility Group 2 in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **Test Sample** | **Validation Sample** | **P-Value** |
| ***eCQM rate of timely diagnostic resolution — %*** | 87.5% | 86.9% | 0.20 |
| ***Number of measurement years — no. (range of years)*** | 6 (2018-2023) | 6 (2018-2023) |  |
| ***Age at index abnormal screening mammogram*** |  |  | 0.37 |
|  Mean (SD) — yr | 54.1 (9.9) | 54.0 (9.9) |  |
|  Distribution — % |  |  | 0.77 |
|  45 to 49 yr | 23.1 | 23.1 |  |
|  50 to 64 yr | 52.8 | 53.3 |  |
|  65 to 75 yr | 24.1 | 23.6 |  |
| ***Race — %*** |  |  | 0.68 |
|  Asian | 5.5 | 5.9 |  |
|  Black | 9.4 | 9.1 |  |
|  White | 73.9 | 74.1 |  |
|  Other | 0.3 | 0.4 |  |
|  Unknown | 10.8 | 10.5 |  |
| ***Ethnic group — %*** |  |  | 0.73 |
|  Hispanic | 11.1 | 11.5 |  |
|  Non-Hispanic | 87.8 | 87.4 |  |
|  Unknown | 1.1 | 1.2 |  |
| ***Primary insurance at index abnormal screening mammogram— %*** |  |  | 0.94 |
|  Private | 77.5 | 77.4 |  |
|  Medicare | 17.2 | 17.2 |  |
|  Medicaid | 1.6 | 1.5 |  |
|  Other\* | 0.5 | 0.6 |  |
|  Unknown | 3.2 | 3.3 |  |
| ***Primary language — %*** |  |  | 0.68 |
|  English | 93.0 | 92.6 |  |
|  Spanish | 4.7 | 5.0 |  |
|  Other | 1.7 | 1.8 |  |
|  Unknown | 0.6 | 0.6 |  |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 6d**. Descriptive Statistics of the Test and Validation Samples for Facility Group 3 in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **Test Sample** | **Validation Sample** | **P-Value** |
| ***eCQM rate of timely diagnostic resolution — %*** | 91.3% | 91.3% | 0.90 |
| ***Number of measurement years — no. (range of years)*** | 6 (2018-2023) | 6 (2018-2023) |  |
| ***Age at index abnormal screening mammogram*** |  |  | 0.67 |
|  Mean (SD) — yr | 58.7 (9.8) | 58.6 (9.9) |  |
|  Distribution — % |  |  | 0.93 |
|  45 to 49 yr | 13.7 | 13.9 |  |
|  50 to 64 yr | 49.2 | 48.8 |  |
|  65 to 75 yr | 37.1 | 37.3 |  |
| ***Race — %*** |  |  | 0.73 |
|  Asian | 2.0 | 2.4 |  |
|  Black | 10.7 | 10.4 |  |
|  White | 75.6 | 75.1 |  |
|  Other\* | 0.4 | 0.3 |  |
|  Unknown | 11.4 | 11.7 |  |
| ***Ethnic group — %*** |  |  | 0.49 |
|  Hispanic | 12.4 | 11.7 |  |
|  Non-Hispanic | 86.1 | 87.1 |  |
|  Unknown | 1.5 | 1.3 |  |
| ***Primary insurance at index abnormal screening mammogram— %*** |  |  | 0.98 |
|  Private | 65.6 | 66.1 |  |
|  Medicare | 29.7 | 29.3 |  |
|  Medicaid | 1.2 | 1.2 |  |
|  Other | 0.4 | 0.3 |  |
|  Unknown | 3.0 | 3.0 |  |
| ***Primary language — %*** |  |  | 0.81 |
|  English | 92.0 | 92.4 |  |
|  Spanish | 5.2 | 5.0 |  |
|  Other | 1.5 | 1.5 |  |
|  Unknown | 1.4 | 1.2 |  |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 6e**. Descriptive Statistics of the Test and Validation Samples for Facility Group 4 in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **Test Sample** | **Validation Sample** | **P-Value** |
| ***eCQM rate of timely diagnostic resolution — %*** | 93.5% | 93.5% | 0.93 |
| ***Number of measurement years — no. (range of years)*** | 6 (2018-2023) | 6 (2018-2023) |  |
| ***Age at index abnormal screening mammogram*** |  |  | 0.86 |
|  Mean (SD) — yr | 53.8 (9.8) | 53.8 (9.8) |  |
|  Distribution — % |  |  | 0.29 |
|  45 to 49 yr | 24.3 | 23.8 |  |
|  50 to 64 yr | 52.5 | 53.9 |  |
|  65 to 75 yr | 23.1 | 22.3 |  |
| ***Race — %*** |  |  | 0.71 |
|  Asian | 6.6 | 6.8 |  |
|  Black | 1.9 | 1.9 |  |
|  White | 87.4 | 87.2 |  |
|  Other\* | 0.2 | 0.3 |  |
|  Unknown | 4.0 | 3.7 |  |
| ***Ethnic group — %*** |  |  | 0.10 |
|  Hispanic | 3.3 | 3.1 |  |
|  Non-Hispanic | 96.2 | 96.1 |  |
|  Unknown | 0.6 | 0.8 |  |
| ***Primary insurance at index abnormal screening mammogram— %*** |  |  | 0.32 |
|  Private | 77.6 | 77.5 |  |
|  Medicare | 15.8 | 15.7 |  |
|  Medicaid | 0.4 | 0.4 |  |
|  Other | 0.3 | 0.2 |  |
|  Unknown | 5.8 | 6.3 |  |
| ***Primary language — %*** |  |  | 0.52 |
|  English | 98.2 | 98.2 |  |
|  Spanish | 0.4 | 0.3 |  |
|  Other | 0.9 | 1.0 |  |
|  Unknown | 0.5 | 0.5 |  |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 6f**. Descriptive Statistics of the Test and Validation Samples for Facility Group 5 in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **Test Sample** | **Validation Sample** | **P-Value** |
| ***eCQM rate of timely diagnostic resolution — %*** | 94.4 | 94.2 | 0.68 |
| ***Number of measurement years — no. (range of years)*** | 6 (2018-2023) | 6 (2018-2023) |  |
| ***Age at index abnormal screening mammogram*** |  |  | 0.97 |
|  Mean (SD) — yr | 56.0 (10.0) | 55.9 (10.1) |  |
|  Distribution — % |  |  | 0.21 |
|  45 to 49 yr | 17.1 | 18.5 |  |
|  50 to 64 yr | 54.0 | 52.8 |  |
|  65 to 75 yr | 28.9 | 28.8 |  |
| ***Race — %*** |  |  | 0.61 |
|  Asian | 3.4 | 3.4 |  |
|  Black | 6.3 | 6.3 |  |
|  White | 81.4 | 82.2 |  |
|  Other\* | 0.2 | 0.2 |  |
|  Unknown | 8.8 | 8.0 |  |
| ***Ethnic group — %*** |  |  | 0.12 |
|  Hispanic | 17.2 | 15.7 |  |
|  Non-Hispanic | 82.2 | 83.6 |  |
|  Unknown | 0.6 | 0.7 |  |
| ***Primary insurance at index abnormal screening mammogram— %*** |  |  | 0.49 |
|  Private | 67.8 | 68.6 |  |
|  Medicare | 20.0 | 19.1 |  |
|  Medicaid | 7.1 | 7.2 |  |
|  Other | 1.2 | 0.9 |  |
|  Unknown | 4.0 | 4.2 |  |
| ***Primary language — %*** |  |  | 0.43 |
|  English | 82.4 | 83.5 |  |
|  Spanish | 11.9 | 10.9 |  |
|  Other | 5.3 | 5.2 |  |
|  Unknown | 0.5 | 0.5 |  |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 6g**. Descriptive Statistics of the Test and Validation Samples for Facility Group 6 in Health System 1

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristics** | **Test Sample** | **Validation Sample** | **P-Value** |
| ***eCQM rate of timely diagnostic resolution — %*** | 95.2% | 95.3% | 0.77 |
| ***Number of measurement years — no. (range of years)*** | 6 (2018-2023) | 6 (2018-2023) |  |
| ***Age at index abnormal screening mammogram*** | 55.5 | 55.5 | 0.08 |
|  Mean (SD) — yr | 10.2 | 10.2 |  |
|  Distribution — % |  |  | 0.18 |
|  45 to 49 yr | 20.3 | 21.5 |  |
|  50 to 64 yr | 51.0 | 50.6 |  |
|  65 to 75 yr | 28.7 | 27.9 |  |
| ***Race — %*** |  |  | 0.73 |
|  Asian | 6.7 | 6.3 |  |
|  Black | 5.3 | 5.2 |  |
|  White | 79.1 | 79.4 |  |
|  Other | 0.2 | 0.3 |  |
|  Unknown | 8.8 | 8.8 |  |
| ***Ethnic group — %*** |  |  | **0.04** |
|  Hispanic | 8.5 | 9.0 |  |
|  Non-Hispanic | 90.8 | 89.9 |  |
|  Unknown | 0.8 | 1.1 |  |
| ***Primary insurance at index abnormal screening mammogram— %*** |  |  | 0.65 |
|  Private | 72.8 | 73.2 |  |
|  Medicare | 21.3 | 21.2 |  |
|  Medicaid | 2.0 | 1.8 |  |
|  Other\* | 0.9 | 0.7 |  |
|  Unknown | 3.0 | 3.0 |  |
| ***Primary language — %*** |  |  | 0.58 |
|  English | 92.6 | 93.1 |  |
|  Spanish | 4.0 | 3.9 |  |
|  Other | 3.1 | 2.7 |  |
|  Unknown | 0.3 | 0.4 |  |

\*Patients identified as American Indian, Alaska Native, or Native Hawaiian or Other Pacific Islander.

**Table 7.** Spearman’s Rank Correlation Coefficients, Overall and by Year from 2018 to 2023 for Six Facility Groups in Health System 1

|  |  |  |
| --- | --- | --- |
| **Measurement Year** | **Test-Validation Correlation** | **95% CI** |
| ***Overall*** | ***1.00*** | ***(0.99, 0.99)*** |
| 2018 | 1.00 | (0.99, 0.99) |
| 2019 | 0.94 | (0.49, 0.99) |
| 2020 | 0.77 | (-0.18, 0.97) |
| 2021 | 0.94 | (0.49, 0.99) |
| 2022 | 0.83 | (-0.03, 0.98) |
| 2023 | 0.94 | (0.49, 0.99) |

**Table 8.** Interclass Correlation Coefficients (ICC), Overall and by Year from 2018 to 2023 for Six Facility Groups in Health System 1

|  |  |  |
| --- | --- | --- |
| **Measurement Year** | **Test Sample (95% CI)** | **Validation Sample (95% CI)** |
| ***Overall*** | ***0.037 (0.013, 0.302)*** | **0.066 (0.027, 0.306)** |
| 2018 | 0.002 (0.001, 0.999) | 0.066 (0.025, 0.366) |
| 2019 | 0.020 (0.004, 0.914) | 0.032 (0.011, 0.236) |
| 2020 | 0.019 (0.003, 0.999) | 0.084 (0.033, 0.404) |
| 2021 | 0.052 (0.012, 0.909) | 0.100 (0.040, 0.433) |
| 2022 | 0.007 (0.001, 0.999) | 0.097 (0.039, 0.417) |
| 2023 | 0.019 (0.003, 0.999) | 0.084 (0.033, 0.404) |