**Appendix Figure 1. Study sample flow diagram**

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**Appendix Table 1. Characteristics of hospital-level survey respondents and non-respondents in NSHOS**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Respondents****(n=753)** | **Non-Respondents****(n=884)** | **Sample Frame\*****(n=4,534)** |
| **Organizational Characteristics**  |  |  |  |
| % Non-Profit (n) | 83.5% (629) | 79.2% (700) | 71.8% (3,255) |
| % General Acute (n) | 73.7% (555) | 82.5% (729) | 74% (3,352) |
| % Critical Access (n) | 26.2% (197) | 17.5% (154) | 26% (1,180) |
| % Teaching Hospital (n) | 25.9% (195) | 26.2% (232) | 21.1% (957) |
| % Community Hospital (n) | 73.8% (556) | 82.5% (729) | 73.9% (3,352) |
| **Size** |  |  |  |
| Mean # of Physicians† (SD) | 116.0 (188.9) | 128.5 (198.6) | 87.1 (151.2) |
| Mean # of Associate Providers‡ (SD) | 16.7 (30.3) | 16.8 (28.6) | 12.6 (22.8) |
| Mean # Beds§ (SD) | 184.6 (191.1) | 192.1 (179.4) | 160.4 (166.2) |
| **Geography** |  |  |  |
| % Urban(n) | 52.5% (395) | 61.8% (546) | 48.5% (2,200) |
| % Suburban (n) | 20.3% (153) | 20.3% (153) | 21.0% (950) |
| % Rural (n) | 27.2% (205) | 27.2% (205) | 30.5% (1,384) |
| % Midwest (n) | 33.2% (250) | 27.9% (247) | 28.8% (1,304) |
| % Northeast (n) | 15.0% (113) | 18.8% (166) | 13.5% (613) |
| % South (n) | 32.0% (241) | 32.8% (290) | 38.4% (1,740) |
| % West (n) | 19.8% (149) | 20.5% (181) | 19.3% (877) |
| **System Characteristic** |  |  |  |
| % Independent (n) | 6.9% (52) | 3.2% (28) | 18.5% (840) |
| % Simple System (n) | 34.9% (263) | 31.5% (278) | 28.7% (1,301) |
| % Complex System (n) | 58.2 % (438) | 65.4% (578) | 52.8% (2,393) |
| Mean # of Owner Subsidiaries (SD) | 4.4 (7.4) | 4.9 (7.8) | 6.0 (8.5) |
| Mean # of Acute Care Hospitals (SD) | 26.2 (48.1) | 30.8 (53.7) | 48.3 (79.2) |
| Mean # of Medical Groups (SD) | 126.0 (175.3) | 132.3 (176.9) | 157.7 (196.0) |
| Mean # of states operating in (SD) | 5.1 (7.8) | 5.9 (8.7) | 8.7 (12.0) |
| % Part of ACO (n) | 22.5% (158) | 22.3% (191) | 20.5% (758) |

*\*Includes surveyed and non-surveyed organizations*

*†Physicians = All MD/DO; Sum of Primary Care and Specialist Physicians*

*‡Associate Providers = Non-physician clinicians (e.g. NP, PA, CNS, etc)*

*§Based on OneKey data (“Staffed” beds)*

**Appendix Table 2. Characteristics of respondents and non-respondents in AHA survey**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Respondents** | **Non-Respondents** |  |
| **(n=648)** | **(n=91)** | **p value** |
| **Organizational capabilities** | **% (n)** | **% (n)** |  |
| EHR system |   |   |   |
| *Single EHR*  | 56.2% (338) | 51.7% (47) | 0.42 |
| *Multiple EHRs* | 30.4% (183) | 29.7% (27) | 0.89 |
| *Mixture of EHR & paper systems* | 13.5% (81) | 18.7% (17) | 0.18 |
| EHR connected to primary care  | 51.0% (307) | 37.4% (34)\* | 0.02 |
| Barriers to the adoption of evidence-based clinical treatments (Mean (SD)) | 51.5 (25.5) | 52.7 (24.0) | 0.64 |
| Any quality improvement method | 70.4% (424) | 53.9% (49)\*\* | 0.002 |
| Dissemination of best patient care practices (Mean (SD)) | 81.9 (23.5) | 76.7 (23.9) | 0.05 |
| **Structural Characteristics** |  |  |  |
| Health system member | 72.9% (439) | 67.0% (61) | 0.24 |
| Ownership |   |   |   |
| *Public* | 16.5% (99) | 19.8% (18) | 0.43 |
| *Private, non-profit* | 78.7% (474) | 56.0% (51)\*\*\* | < 0.001 |
| *Private, for profit* | 4.8% (29) | 24.2% (22)\*\*\* | <0.001 |
| Joint commission accreditation | 64.3% (387) | 64.8% (59) | 0.92 |
| Teaching hospital | 49.8% (300) | 40.7% (37) | 0.1 |
| **Demographic characteristics** |  |  |  |
| US Census Region |   |   |   |
| *Northeast* | 14.5% (87) | 19.8% (18) | 0.19 |
| *Midwest* | 35.7% (215) | 20.9% (19)\*\* | 0.005 |
| *South* | 31.4% (189) | 33.0% (30) | 0.76 |
| *West* | 18.4% (111) | 26.4% (24) | 0.08 |
| Race/ethnicity, Percentage (Mean (SD)) |   |   |   |
| *% Hispanic* | 11.6 (13.4) | 14.1 (16.5) | 0.18 |
| *% Black* | 9.8 (12.1) | 9.2 (11.7) | 0.61 |
| *% Asian* | 3.8 (5.6) | 3.7 (4.4) | 0.9 |
| *% AIAN/NHPI******* | 1.5 (2.6) | 2.0 (4.6) | 0.27 |
| Rurality  |   |   |   |
| *Urban* | 56.3% (339) | 53.3% (48) | 0.6 |
| *Large-rural* | 17.4% (105) | 20.0% (18) | 0.55 |
| *Small-rural* | 26.3% (158) | 26.7% (24) | 0.93 |
| Percentage of population below census poverty level |   |   |   |
| *< 10%* | 25.5% (149) | 22.0% (20) | 0.47 |
| *10-20%* | 50.9% (297) | 47.3% (43) | 0.52 |
| *20-30%* | 16.6% (97) | 18.7% (17) | 0.62 |
| *>30%* | 7.0% (41) | 12.1% (11) | 0.09 |

**ϕ** *American Indian & Alaska Native/ Native Hawaiian, Other Pacific Islander*

*Chi-square test/t-test significant levels: \* p < .05, \*\* p < .01, \*\*\* p < .001*