Supplemental Online Content

See H, Shreve L, Hartzell S, Daniel S, Slonim AD. Comparison of quality measures from US hospitals with physician vs nonphysician chief executive officers. JAMA Netw Open. 2022;5(10):e2236621. doi:10.1001/jamanetworkopen.2022.36621

eTable. Descriptive Statistics and Patient Volume Indicators by Hospital Quality Assessment

This supplemental material has been provided by the authors to give readers additional information about their work.
### Patient Volume Indicators

| (Q1-Q3)^2   | 1       | 2       | 3       | 4       | 5       | p-value | 1       | 2       | 3       | 4       | 5       | p-value |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total sample | N=83    | N=437   | N=512   | N=93    |         | <.001   | N=49    | N=334   | N=775   | N=511   | N=90    | <.001   |
| Total facility admissions | 6,006  | 6,157   | 6,321   | 5,345   | 1,673   | <.001   | 8,637   | 10,169  | 7,217   | 2,581   | 2,517   | <.001   |
| Adjusted admissions | 13,419 | 14,638  | 15,580  | 15,484  | 5,943   | .0009   | 15,512  | 18,142  | 17,128  | 9,259   | 4,671   | .0001   |
| Total facility inpatient days | 28,992 | 29,904  | 32,085  | 27,642  | 6,466   | <.001   | 48,249  | 45,284  | 35,418  | 12,610  | 4,371   | <.001   |
| Adjusted patient days | 76,563 | 67,203  | 75,894  | 62,032  | 23,262  | 10.63   | 76,563  | 67,203  | 75,894  | 62,032  | 23,262  | 10.63   |
| Total facility Medicare discharges | 2,735  | 3,145   | 3,108   | 2,940   | 835     | <.001   | 3,957   | 4,476   | 3,726   | 1,231   | 595     | <.001   |
| Total facility Medicaid discharges | 12,217 | 13,123  | 11,335  | 9,904   | 199     | <.001   | 1,307   | 1,037   | 1,266   | 1,246   | 0.246   | <.001   |
| Total births | 429     | 543     | 571     | 583     | 133     | <.001   | 761     | 948     | 694     | 320     | 67      | <.001   |
| Total surgical operations | 4,049  | 4,446   | 4,923   | 5,621   | 2,598   | 0.001   | 4,717   | 5,911   | 5,953   | 3,157   | 1,987   | <.001   |
| Emergency department visits | 25,056 | 31,565  | 32,467  | 29,771  | 10,279  | <.001   | 33,122  | 43,679  | 35,222  | 19,627  | 7,872   | <.001   |
| Total facility personnel FTE^3 | 673     | 802     | 944     | 905     | 410     | <.001   | 862     | 1,179   | 1,050   | 562     | 321     | <.001   |
| Adjusted average daily census | 218     | 190     | 210     | 197     | 69      | <.001   | 240     | 200     | 218     | 109     | 54      | <.001   |

**Measure**

| Patient Volume Indicators | Total Sample | HCAHPS Sample (N=1,759) | Leapfrog Sample (N=1,824) |
|----------------------------|-------------|--------------------------|---------------------------|
| **(Q1-Q3)^2** | N=83 | N=437 | N=512 | N=93 | N=49 | N=334 | N=775 | N=511 | N=90 | N=75 | N=125 | N=597 | N=458 | N=638 |
| Patient sample | 7,018 | 9,109 | 8,920 | 8,350 | 9,264 | 0.483 | 3,563 | 11,134 | 8,561 | 9,972 | 9,198 | 0.041 | 12,560 | 21,344 | 14,834 | 12,198 |
| Adjusted admissions | 12,217 | 20,457 | 19,686 | 20,777 | 20,597 | 0.181 | 6,950 | 23,410 | 18,463 | 31,142 | 39,589 | 0.067 | 17,322 | 18,966 | 17,160 | 12,735 |
| Total facility inpatient days | 39,460 | 48,356 | 42,267 | 44,468 | 43,027 | 0.935 | 20,110 | 57,877 | 40,285 | 47,929 | 40,000 | 0.002 | 11,028 | 40,423 | 30,938 | 30,105 |
| Adjusted patient days | 64,621 | 98,115 | 92,722 | 95,681 | 94,752 | 0.998 | 5,752 | 11,864 | 9,344 | 100,995 | 91,260 | 0.004 | 5,532 | 84,341 | 65,013 | 51,656 |
| Total facility Medicare discharges | 2,735 | 2,836 | 2,476 | 2,473 | 4,751 | 0.220 | 1,728 | 6,868 | 4,113 | 4,661 | 0.019 | 1,349 | 4,138 | 1,964 | 1,510 | 1,576 |
| Total facility Medicaid discharges | 5,217 | 5,528 | 5,718 | 7,188 | 1,153 | 0.309 | 638 | 2,305 | 1,652 | 1,707 | 1,152 | 0.005 | 409 | 1,432 | 1,405 | 1,405 | 1,389 |
| Total births | 582 | 741 | 875 | 863 | 871 | 0.355 | 408 | 772 | 863 | 1,055 | 847 | 0.032 | 1,492 | 2,024 | 2,112 | 1,571 |
| Total surgical operations | 4,115 | 6,194 | 6,672 | 6,933 | 6,788 | 0.222 | 2,358 | 2,964 | 6,323 | 7,263 | 6,756 | 0.005 | 2,281 | 4,422 | 4,570 | 6,154 |
| Emergency department visits | 24,102 | 41,634 | 38,344 | 40,296 | 42,994 | 0.094 | 28,332 | 43,698 | 37,004 | 43,013 | 41,251 | 0.003 | 21,612 | 40,085 | 28,182 | 27,255 |
| Total facility personnel FTE^3 | 1,287 | 1,285 | 1,272 | 1,380 | 1,152 | 0.988 | 483 | 1,405 | 1,061 | 1,056 | 1,132 | 0.002 | 133 | 3,614 | 746 | 576 | 601 |
| Adjusted average daily census | 259 | 269 | 256 | 262 | 260 | 0.998 | 157 | 328 | 248 | 277 | 250 | 0.002 | 87 | 185 | 182 | 185 | 185 |

^2 Q1-Q3 represents the range of the lower quartile (Q1) to the upper quartile (Q3).

^3 Chi square p-value reported to test for equal proportions of Leapfrog ratings. KnussCa-Walls p-value reported to test for equal medians across Leapfrog grade categories.

^4 Hospitals with missing data in HCAHPS sample for total facility FTE.