

**Table 3**

Means and Logistic Regression Model Testing Association of Hospital Organizational Structure and Staffing with EHR Implementation

| Organizational Structure and Staffing                                                                                                  | Mean                   |                             |                              | df | $\chi^2$ | p-value |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|------------------------------|----|----------|---------|
|                                                                                                                                        | No Implementation (SD) | Partial Implementation (SD) | Complete Implementation (SD) |    |          |         |
| Total licensed beds                                                                                                                    | 136 (136)              | 179 (211)                   | 243 (258)                    | 1  | 10.38    | .001*   |
| Total facility admissions                                                                                                              | 2,039 (3,704)          | 6,201 (8,688)               | 9,375 (11,324)               | 1  | 17.55    | <.0001* |
| Total facility inpatient days                                                                                                          | 23,434 (38,120)        | 35,246 (49,184)             | 50,713 (62,089)              | 1  | 24.44    | <.0001* |
| Total Medicare inpatient days                                                                                                          | 7,722 (9,980)          | 15,045 (20,469)             | 21,354 (27,170)              | 1  | 6.79     | .009*   |
| Total Medicaid inpatient days                                                                                                          | 4,437 (12,987)         | 8,282 (8,356)               | 11,122 (19,478)              | 1  | 2.25     | .13     |
| Total surgical operations                                                                                                              | 1,168 (3,126)          | 4,908 (6,425)               | 7,478 (9,695)                | 1  | 12.51    | .0004*  |
| Total outpatient visits                                                                                                                | 27,771 (56,645)        | 127,879 (178,532)           | 203,899 (294,668)            | 1  | 21.91    | <.0001* |
| Full-time staffing                                                                                                                     | 250 (374.1)            | 753 (1,212)                 | 1,196 (1,815)                | 1  | 2.93     | .09     |
| Physicians and dentists                                                                                                                | 4 (17.0)               | 16 (68)                     | 36 (133)                     | 1  | 0.73     | .39     |
| Registered nurses                                                                                                                      | 57 (109)               | 200 (330)                   | 316 (459)                    | 1  | 0.93     | .33     |
| Pharmacists                                                                                                                            | 2 (5)                  | 8 (15)                      | 14 (22)                      | 1  | 10.2     | .001*   |
| Total personnel                                                                                                                        | 249 (374)              | 753 (1,212)                 | 1,196 (1,815)                | 1  | 3.45     | .06     |
| Specialty doctors                                                                                                                      |                        |                             |                              |    |          |         |
| Primary care (general practitioner, general internal medicine, family practice, general pediatrics, obstetrics/gynecology, geriatrics) | 2 (4)                  | 12 (19)                     | 24 (58)                      | 1  | 5.13     | .02*    |
| Emergency medicine                                                                                                                     | 0.4 (3)                | 2 (7)                       | 5 (13)                       | 1  | 9.81     | .001*   |
| Hospitalists                                                                                                                           | 1 (7)                  | 3 (9)                       | 5 (12)                       | 1  | 0.001    | .99     |
| Intensive care                                                                                                                         | 0.12 (1)               | 1 (5)                       | 2 (8)                        | 1  | 5.39     | .02*    |

|                                          |          |          |          |   |      |     |
|------------------------------------------|----------|----------|----------|---|------|-----|
| Radiologist/pathologist/anesthesiologist | 0.25 (2) | 3 (20)   | 8 (33)   | 1 | 1.08 | .30 |
| Other specialists                        | 2 (9)    | 14 (58)  | 32 (98)  | 1 | 2.02 | .15 |
| Total employed physicians                | 6 (22)   | 36 (119) | 77 (194) | 1 | 1.21 | .27 |

\* Statistically significant at  $p < .05$ .