

## Supplemental Digital Content

**Table 2: Results of State Fixed Effect Model Full Model: Association of Hospital Characteristics, Hospital's Relevant Geographic Area, State Community Benefit Law, and Medicaid Expansion Status for 12 Individual Measures of Care Coordination Index**

|                                            | Chronic care management processes or programs to manage patients with high volume, high cost chronic diseases |      | Use of predictive analytic tools to identify individual patients at high risk for poor outcomes or extraordinary resource use |      | Prospective management of patients at high risk for poor outcomes or extraordinary resource use by experienced case managers |      | Assignment of case managers for outpatient follow-up to patients at risk for hospital admission or readmission |      | Medication reconciliation as part of an established plan of care |      | Provision of visit summaries to patients as part of all outpatient encounters and scheduling of follow up visit and/or specialty referrals at the time of the initial encounter |      |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|                                            | N=995                                                                                                         |      | N=999                                                                                                                         |      | N=997                                                                                                                        |      | N=992                                                                                                          |      | N=997                                                            |      | N=987                                                                                                                                                                           |      |
|                                            | coef                                                                                                          | p    | coef                                                                                                                          | p    | coef                                                                                                                         | p    | coef                                                                                                           | p    | coef                                                             | p    | coef                                                                                                                                                                            | p    |
| Hospital characteristics                   |                                                                                                               |      |                                                                                                                               |      |                                                                                                                              |      |                                                                                                                |      |                                                                  |      |                                                                                                                                                                                 |      |
| Not for profit                             | 0.20                                                                                                          | 0.19 | 0.16                                                                                                                          | 0.33 | -0.30                                                                                                                        | 0.05 | 0.34                                                                                                           | 0.05 | -0.34                                                            | 0.00 | 0.24                                                                                                                                                                            | 0.14 |
| Government                                 | -0.08                                                                                                         | 0.62 | -0.20                                                                                                                         | 0.27 | -0.69                                                                                                                        | 0.00 | 0.08                                                                                                           | 0.68 | -0.45                                                            | 0.00 | 0.02                                                                                                                                                                            | 0.92 |
| Bed-size medium (50-199 beds)              | 0.39                                                                                                          | 0.00 | 0.21                                                                                                                          | 0.07 | 0.39                                                                                                                         | 0.00 | 0.54                                                                                                           | 0.00 | 0.17                                                             | 0.03 | 0.13                                                                                                                                                                            | 0.27 |
| Bed-size large (>200 beds)                 | 0.47                                                                                                          | 0.00 | 0.41                                                                                                                          | 0.01 | 0.39                                                                                                                         | 0.01 | 0.61                                                                                                           | 0.00 | 0.09                                                             | 0.41 | 0.04                                                                                                                                                                            | 0.80 |
| Rural                                      | -0.14                                                                                                         | 0.18 | -0.20                                                                                                                         | 0.08 | -0.18                                                                                                                        | 0.09 | 0.06                                                                                                           | 0.63 | 0.05                                                             | 0.55 | -0.16                                                                                                                                                                           | 0.15 |
| Teaching                                   | 0.06                                                                                                          | 0.73 | 0.08                                                                                                                          | 0.70 | 0.31                                                                                                                         | 0.11 | 0.15                                                                                                           | 0.48 | -0.08                                                            | 0.57 | 0.41                                                                                                                                                                            | 0.05 |
| Inpatient surgical operations (unit 1,000) | 0.01                                                                                                          | 0.72 | 0.00                                                                                                                          | 1.00 | -0.03                                                                                                                        | 0.25 | -0.03                                                                                                          | 0.31 | 0.02                                                             | 0.27 | 0.00                                                                                                                                                                            | 0.87 |
| Emergency room visits (unit 1,000)         | 0.00                                                                                                          | 0.05 | 0.00                                                                                                                          | 0.08 | 0.00                                                                                                                         | 0.01 | 0.00                                                                                                           | 0.11 | 0.00                                                             | 0.96 | 0.00                                                                                                                                                                            | 0.43 |
| Full-time total personnel (unit 1,000)     | -0.02                                                                                                         | 0.60 | -0.02                                                                                                                         | 0.71 | 0.02                                                                                                                         | 0.63 | -0.02                                                                                                          | 0.72 | 0.00                                                             | 0.96 | 0.01                                                                                                                                                                            | 0.78 |
| Hospital unit Medicaid days (unit 1,000)   | 0.00                                                                                                          | 0.99 | 0.00                                                                                                                          | 0.70 | 0.00                                                                                                                         | 0.33 | 0.00                                                                                                           | 0.46 | 0.00                                                             | 0.41 | 0.00                                                                                                                                                                            | 0.31 |
| Hospital 15-mile services area             |                                                                                                               |      |                                                                                                                               |      |                                                                                                                              |      |                                                                                                                |      |                                                                  |      |                                                                                                                                                                                 |      |
| White (100%)                               | -0.85                                                                                                         | 0.35 | -2.13                                                                                                                         | 0.03 | -0.56                                                                                                                        | 0.55 | -1.18                                                                                                          | 0.24 | -0.65                                                            | 0.32 | 0.27                                                                                                                                                                            | 0.79 |
| African American (100%)                    | 0.17                                                                                                          | 0.88 | -1.24                                                                                                                         | 0.29 | 0.33                                                                                                                         | 0.77 | 0.11                                                                                                           | 0.93 | -0.43                                                            | 0.59 | 0.51                                                                                                                                                                            | 0.67 |
| Hispanic (100%)                            | -0.09                                                                                                         | 0.87 | -0.92                                                                                                                         | 0.11 | 0.07                                                                                                                         | 0.90 | 0.91                                                                                                           | 0.13 | 0.43                                                             | 0.28 | -0.48                                                                                                                                                                           | 0.41 |

|                                                          |       |      |       |      |       |      |       |      |       |      |      |      |
|----------------------------------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|------|------|
| High-Poverty-uninsured                                   | -0.22 | 0.09 | -0.07 | 0.60 | -0.19 | 0.16 | -0.35 | 0.02 | -0.13 | 0.19 | 0.08 | 0.60 |
| Medium-Poverty-Uninsured                                 | 0.08  | 0.48 | 0.13  | 0.25 | -0.01 | 0.90 | -0.16 | 0.20 | -0.06 | 0.47 | 0.19 | 0.11 |
| County-level number of FQHCs (per 1,000 residents)       | 0.01  | 0.67 | 0.01  | 0.46 | 0.02  | 0.09 | 0.01  | 0.74 | 0.01  | 0.35 | 0.01 | 0.46 |
| State                                                    |       |      |       |      |       |      |       |      |       |      |      |      |
| Implementation of the intensity of community benefit law | 0.01  | 0.71 | 0.06  | 0.11 | 0.07  | 0.07 | 0.07  | 0.10 | 0.01  | 0.77 | 0.05 | 0.19 |
| Not a Medicaid expansion state in 2015 (100%)            | -0.12 | 0.62 | -0.26 | 0.33 | -0.10 | 0.71 | -0.07 | 0.81 | -0.07 | 0.70 | 0.20 | 0.47 |
| Constant                                                 | 3.28  | 0.00 | 4.07  | 0.00 | 3.18  | 0.00 | 2.86  | 0.00 | 5.27  | 0.00 | 2.61 | 0.01 |

## Supplemental Digital Content

Table 2. More measures of care coordination practice, cont.

|                          | Post-hospital discharge continuity of care program with scaled intensiveness based upon a severity or risk profile for adult medical-surgical patients in defined diagnostic categories or severity profiles |      | Arrangement of home visits by physicians, advanced practice nurses, or other professionals for homebound and complex patients for whom office visits constitute a physical hardship |      | Nurse case managers whose primary job is to improve the quality of outpatient care for patients with chronic diseases (e.g., asthma, CHF, depression, diabetes) |      | Disease management programs for one or more chronic care conditions (e.g., asthma, diabetes, COPD) |      | Hospitalists for medical/surgical inpatients |      | Telephonic outreach to discharged |      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------|------|----------------------------------------------|------|-----------------------------------|------|
|                          | N=991                                                                                                                                                                                                        |      | N=997                                                                                                                                                                               |      | N=994                                                                                                                                                           |      | N=993                                                                                              |      | N=996                                        |      | N=992                             |      |
|                          | coef                                                                                                                                                                                                         | p    | coef                                                                                                                                                                                | p    | coef                                                                                                                                                            | p    | coef                                                                                               | p    | coef                                         | p    | coef                              | p    |
| Hospital characteristics |                                                                                                                                                                                                              |      |                                                                                                                                                                                     |      |                                                                                                                                                                 |      |                                                                                                    |      |                                              |      |                                   |      |
| Not for profit           | 0.14                                                                                                                                                                                                         | 0.41 | -0.14                                                                                                                                                                               | 0.44 | 0.17                                                                                                                                                            | 0.31 | 0.13                                                                                               | 0.43 | -0.18                                        | 0.28 | -0.65                             | 0.00 |
| Government               | -0.26                                                                                                                                                                                                        | 0.14 | -0.47                                                                                                                                                                               | 0.02 | -0.17                                                                                                                                                           | 0.35 | -0.05                                                                                              | 0.79 | -0.52                                        | 0.00 | -0.85                             | 0.00 |
| Bed-size medium (50-199) | 0.35                                                                                                                                                                                                         | 0.00 | 0.18                                                                                                                                                                                | 0.16 | 0.30                                                                                                                                                            | 0.01 | 0.38                                                                                               | 0.00 | 0.83                                         | 0.00 | 0.16                              | 0.14 |

|                                                                |       |      |       |      |       |      |       |      |       |      |       |      |
|----------------------------------------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| beds)                                                          |       |      |       |      |       |      |       |      |       |      |       |      |
| Bed-size large (>200 beds)                                     | 0.25  | 0.10 | 0.12  | 0.46 | 0.51  | 0.00 | 0.38  | 0.01 | 1.05  | 0.00 | 0.09  | 0.54 |
| Rural                                                          | 0.05  | 0.64 | 0.14  | 0.26 | 0.12  | 0.30 | -0.06 | 0.58 | -0.11 | 0.30 | 0.10  | 0.32 |
| Teaching                                                       | -0.14 | 0.49 | -0.03 | 0.90 | 0.08  | 0.68 | 0.01  | 0.97 | 0.09  | 0.66 | 0.13  | 0.50 |
| Inpatient surgical operations<br>(unit 1,000)                  | 0.01  | 0.68 | 0.02  | 0.48 | -0.02 | 0.35 | 0.01  | 0.80 | 0.01  | 0.56 | -0.01 | 0.53 |
| Emergency room visits (unit<br>1,000)                          | 0.00  | 0.14 | 0.00  | 0.16 | 0.00  | 0.15 | 0.00  | 0.01 | 0.01  | 0.00 | 0.01  | 0.00 |
| Full-time total personnel<br>(unit 1,000)                      | -0.01 | 0.83 | -0.04 | 0.46 | 0.05  | 0.30 | -0.02 | 0.67 | -0.02 | 0.70 | 0.01  | 0.77 |
| Hospital unit Medicaid days<br>(unit 1,000)                    | 0.00  | 0.81 | 0.00  | 0.53 | 0.00  | 0.87 | 0.00  | 0.75 | -0.01 | 0.01 | -0.01 | 0.01 |
| Hospital 15-mile services area                                 |       |      |       |      |       |      |       |      |       |      |       |      |
| White (100%)                                                   | -2.65 | 0.01 | -0.43 | 0.68 | -1.15 | 0.24 | -1.14 | 0.23 | -0.04 | 0.96 | -0.03 | 0.97 |
| African American (100%)                                        | -1.57 | 0.19 | 1.33  | 0.31 | 0.24  | 0.85 | 0.53  | 0.65 | 0.88  | 0.45 | 0.78  | 0.48 |
| Hispanic (100%)                                                | 0.14  | 0.81 | 1.03  | 0.10 | 0.53  | 0.37 | 0.30  | 0.60 | 0.05  | 0.93 | 0.84  | 0.11 |
| High-Poverty-uninsured                                         | -0.19 | 0.18 | -0.38 | 0.01 | -0.41 | 0.01 | -0.34 | 0.02 | -0.14 | 0.32 | -0.33 | 0.01 |
| Medium-Poverty-Uninsured                                       | 0.03  | 0.77 | -0.20 | 0.13 | -0.06 | 0.61 | -0.02 | 0.88 | -0.04 | 0.74 | -0.11 | 0.32 |
| County-level number of<br>FQHCs (per 1,000 residents)          | 0.01  | 0.44 | -0.02 | 0.20 | 0.00  | 0.78 | 0.01  | 0.60 | -0.04 | 0.01 | 0.00  | 0.89 |
| State                                                          |       |      |       |      |       |      |       |      |       |      |       |      |
| Implementation of the<br>intensity of community benefit<br>law | 0.06  | 0.09 | 0.01  | 0.90 | 0.06  | 0.13 | 0.03  | 0.47 | 0.08  | 0.03 | 0.07  | 0.06 |
| Not a Medicaid expansion<br>state in 2015 (100%)               | 0.43  | 0.11 | 0.43  | 0.14 | 0.21  | 0.45 | 0.24  | 0.34 | 0.08  | 0.76 | -0.01 | 0.96 |
| Constant                                                       | 4.28  | 0.00 | 2.63  | 0.01 | 2.90  | 0.00 | 3.29  | 0.00 | 3.30  | 0.00 | 4.04  | 0.00 |

Note: Results were estimated using the full model of table 3, and state fixed effect multivariable linear models were used. Outcome variables were 5-point Likert Scale from 1 “not used at all” to 5 “used widely”.