**Supplemental Digital Content**

**Description:**

This document contains the risk-adjusted outcomes for inpatient mortality, 30-day mortality, mean length of stay, mean index hospital costs, mean index hospital payments, and mean index all-provider inpatient payments for the entire sample (Table S1), patients with renal insufficiency (Table S2), and patients eligible for the Medicare Hospital Readmissions Reduction Program (HRRP).

**Table S1. Risk-Adjusted Outcomes and 95% Confidence Intervals between CDI and Non-CDI Patients (Entire Sample)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **All Patients**  **(n =6,524)** | | | | | |
| **Outcomes\*\*** | **No CDI** | **95% CI** |  | **CDI** | **95% CI** | **Difference** |
| Inpatient mortality (%) | 1.7 | (1.0, 2.4) |  | 3.1 | (2.7, 3.6) | 1.4\* |
| 30-day mortality (%) | 2.2 | (1.5, 3.0) |  | 4.1 | (3.4, 4.8) | 1.9\* |
| Length of stay (days), mean | 3.8 | (3.7, 4.0) |  | 7.0 | (6.6, 7.3) | 3.2\* |
| 30-day readmission   rate (%) | 10.4 | (9.2, 11.6) |  | 14.8 | (12.3, 17.3) | 4.4\* |
| Index hospital cost, mean | $13,954 | (13,576, 14,332) |  | $16,184 | (15,208, 17,159) | $2,230\* |
| Index hospital   payments, mean | $11,808 | (11,491, 12,125) |  | $12,359 | (11,707, 13,011) | $551 |
| Index all-provider  inpatient payments, mean | $14,728 | (14,319, 15,137) |  | $15,955 | (15,080, 16,830) | $1,227\* |
| CDI: *Clostridium difficile* infection; SNF: skilled nursing facility; HRRP: Hospital Readmissions Reduction Program (acute myocardial infarction, heart failure, pneumonia)  \*Denotes statistically significant differences (p<0.05)  \*\*Outcomes were risk-adjusted using the following characteristics: age, dual eligible status, admission source, primary and secondary diagnoses, Charlson Comorbidity Index, mechanical ventilation, parenteral feeding, presence of indwelling catheter, previous IV 30-day antibiotic use, previous 30-day immunosuppressant use, previous 30-day IV chemotherapy use, and previous 30-day SNF use | | | | | | |

**Table S2. Risk-Adjusted Outcomes and 95% Confidence Intervals between CDI and Non-CDI Patients for Patients with Renal Insufficiency**

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Patients with Renal Insufficiency**  **(n =1,761)** | | | | | |
| **Outcomes\*\*** | **No CDI** | **95% CI** |  | **CDI** | **95% CI** | **Difference** |
| Inpatient mortality (%) | 9.1 | (5.0, 13.1) |  | 14.3 | (12.7, 15.9) | 5.2\* |
| 30-day mortality (%) | 7.3 | (3.5, 11.1) |  | 15.0 | (13.0, 16.9) | 7.7\* |
| Length of stay (days), mean | 5.2 | (4.7, 5.7) |  | 8.2 | (7.7, 8.6) | 3.9\* |
| 30-day readmission   rate (%) | 16.8 | (13.2, 20.4) |  | 24.0 | (20.5, 27.5) | 7.2\* |
| Index hospital cost, mean | $15,264 | (14,211, 16,317) |  | $17,296 | (16,197, 18,395) | $2,032\* |
| Index hospital   payments, mean | $13,609 | (12,671, 14,547) |  | $13,941 | (13,156, 14,726) | $332 |
| Index all-provider  inpatient payments, mean | $17,441 | (16,204, 18,678) |  | $18,412 | (17,376, 19,449) | $971 |
| CDI: *Clostridium difficile* infection; SNF: skilled nursing facility; HRRP: Hospital Readmissions Reduction Program (acute myocardial infarction, heart failure, pneumonia)  \*Denotes statistically significant differences (p<0.05)  \*\*Outcomes were risk-adjusted using the following characteristics: age, dual eligible status, admission source, primary and secondary diagnoses, Charlson Comorbidity Index, mechanical ventilation, parenteral feeding, presence of indwelling catheter, previous IV 30-day antibiotic use, previous 30-day immunosuppressant use, previous 30-day IV chemotherapy use, and previous 30-day SNF use | | | | | | |

**Table S3. Risk-Adjusted Outcomes and 95% Confidence Intervals between CDI and Non-CDI Patients Eligible for Medicare HRRP**

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| --- | --- | --- | --- | --- | --- | --- |
|  | **Medicare HRRP Patients**  **(n =693)** | | | | | |
| **Outcomes\*\*** | **No CDI** | **95% CI** |  | **CDI** | **95% CI** | **Difference** |
| Length of stay (days), mean | 3.6 | (3.3, 3.8) |  | 6.7 | (6.0, 7.4) | 3.1\* |
| 30-day readmission   rate (%) | 11.7 | (8.9, 14.4) |  | 22.4 | (13.6, 31.2) | 10.7\* |
| Index hospital cost, mean | $16,534 | (15,734, 17,334) |  | $20,847 | (17,432, 24,262) | $4,313\* |
| Index hospital   payments, mean | $12,264 | (11,665, 12,862) |  | $12,020 | (10,647, 13,394) | -$244 |
| Index all-provider  inpatient payments, mean | $14,907 | (14,171, 15,642) |  | $15,551 | (13,723, 17,378) | $644 |
| CDI: *Clostridium difficile* infection; SNF: skilled nursing facility; HRRP: Hospital Readmissions Reduction Program (acute myocardial infarction, heart failure, pneumonia)  \*Denotes statistically significant differences (p<0.05)  \*\*Outcomes were risk-adjusted using the following characteristics: age, dual eligible status, admission source, primary and secondary diagnoses, Charlson Comorbidity Index, mechanical ventilation, parenteral feeding, presence of indwelling catheter, previous IV 30-day antibiotic use, previous 30-day immunosuppressant use, previous 30-day IV chemotherapy use, and previous 30-day SNF use | | | | | | |