**Supplementary Materials**

**Contents**

Table S1. Demographics of enrolled cohort compared to the eligible cohort

Table S2. Application of expanded definition of evidence of possible infection associated with surgery: concordance between data sources up to 30 days after surgery

**Table S1. Demographics of enrolled cohort compared to the eligible cohort**

|  |  |  |
| --- | --- | --- |
|  |  | **No. (%)** |
|  |  | **Sample** |  | **Eligible** |
| **Characteristic** | n=8502 |   | n=19777 |
| Procedure at ASF | 3035 |  (36) |  | 6005 |  (30) |
|  |  |  |  |  |  |  |
| Age |  |  |  |  |  |
|  | <12 months | 1048 |  (12) |  | 2311 |  (12) |
|  | 1-2 years | 1268 |  (15) |  | 3008 |  (15) |
|  | 3-5 years | 1556 |  (18) |  | 3591 |  (18) |
|  | 6-12 years | 2629 |  (31) |  | 6102 |  (31) |
|  | 13-17 years | 2001 |  (24) |  | 4765 |  (24) |
|  |  |  |  |  |  |  |
| Male | 5289 |  (62) |  | 12338 |  (62) |
|  |  |  |  |  |  |  |
| Race |  |  |  |  |  |
|  | White | 5346 |  (63) |  | 11784 |  (60) |
|  | Black | 1417 |  (17) |  | 3593 |  (18) |
|  | Other including mixed | 1683 |  (20) |  | 4275 |  (22) |
|  | Unknown | 56 |  (1) |  | 125 |  (1) |
|  |  |  |  |  |  |  |
| Public insurance | 2056 |  (24) |  | 5503 |  (28) |
|  |  |  |  |  |  |  |
| Surgical specialty |  |  |  |  |  |
|  | Urology | 1746 |  (21) |  | 4002 |  (20) |
|  | Plastic Surgery | 1597 |  (19) |  | 3640 |  (18) |
|  | General Surgery | 1268 |  (15) |  | 2948 |  (15) |
|  | Orthopedics | 1613 |  (19) |  | 3805 |  (19) |
|  | Ophthalmology | 1030 |  (12) |  | 2545 |  (13) |
|  | Oral and Maxillofacial Surgery | 229 |  (3) |  | 513 |  (3) |
|  | Otolaryngology | 918 |  (11) |  | 2100 |  (11) |
|  | Missing | 42 |  (0) |  | 80 |  (0) |
|   | Other | 59 |  (1) |   | 144 |  (1) |

Abbreviations: ASF, ambulatory surgical facility

**Table S2. Application of expanded definition of evidence of possible infection associated with surgery: concordance between data sources up to 30 days after surgery**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Evidence in EHR documentation** |  |
|  |   | Strong or some | None |   |
| **Evidence from interview** | Strong or some | 130 *(19)* | 176 | 306 |
| None | 74 *(2)* | 8122 | 8196 |
|  |  | 204 | 8298 | 8502 |

Abbreviations: EHR, electronic health record

Note: only includes cases documented in the EHR within first 30 days after surgery. Number in parenthesis is number of surgical site infections meeting NHSN criteria.