**Supplementary Materials**

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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.