

Supplementary Table II: Univariate and multivariate analysis for patients' characteristics and risk factors for surgical site infections (SSI) at Kasturba Medical Hospital, Manipal

| Characteristic | Total no. of patients (n = 1,651) | No. of patients with SSI (n =25) | Incidence of SSI (95% CI) | Univariate analysis odds ratio (95% CI) | P value* | Multivariate analysis odds ratio (95% CI) | P value based on likelihood ratio |
|---------------------------------|-----------------------------------|----------------------------------|---------------------------|---|----------|---|-----------------------------------|
| Gender | | | | | 0.644 | | 0.644 |
| Female | 652 | 11 | 1.7 (0.9-3.1) | 1 | | | |
| Male | 999 | 14 | 1.4 (0.8-2.4) | 0.8 (0.4-1.9) | | | |
| Age groups (yr) | | | | | 0.384 | | 0.384 |
| 10-29 | 505 | 4 | 0.8 (0.3-2.2) | 1 | | | |
| 30-49 | 520 | 9 | 1.7 (0.9-3.4) | 2.2 (0.7-8.2) | | | |
| 50-69 | 496 | 9 | 1.8 (0.9-3.5) | 2.3 (0.8-8.6) | | | |
| ≥ 70 | 130 | 3 | 2.3 (0.6-7.1) | 3 (0.6-13.6) | | | |
| Duration of surgery (min) | | | | | <0.001 | | <0.001 |
| <60 | 409 | 2 | 0.5 (0.1-2) | 1 | | | |
| 60-120 | 746 | 5 | 0.7 (0.3-1.7) | 1.4 (0.3-9.6) | | | |
| >120 | 496 | 18 | 3.6 (2.2-5.8) | 7.7 (2.2-48.4) | | 5.2 (1.8-15.4) | |
| Wound class | | | | | <0.001 | | <0.001 |
| Clean | 1,354 | 9 | 0.7 (0.3-1.3) | 1 | | | |
| Clean contaminated | 224 | 11 | 4.9 (2.6-8.9) | 7.7 (3.2-19.4) | | 4.3 (1.2-14.8) | |
| Contaminated | 73 | 5 | 6.8 (2.5-16) | 11 (3.3-32.7) | | 11.1 (2.4-52.4) | |
| Surgeons' grade | | | | | 0.582 | | 0.582 |
| Consultant | 1,365 | 22 | 1.6 (1-2.5) | 1 | | | |
| Resident | 182 | 2 | 1.1 (0.2-4.3) | 0.7 (0.1-2.3) | | | |
| ASA class | | | | | 0.104 | | 0.062 |
| Class I | 1,344 | 17 | 1.3 (0.8-2.1) | 1 | | | |
| Class II | 273 | 8 | 2.9 (1.4-5.9) | 2.4 (1-5.4) | | | |
| Class III, IV & V | 34 | 0 | 0 (0-13) | 0 (0-0) | | | |
| SSI risk index | | | | | 0.014 | | 0.014 |
| 0 | 1,377 | 15 | 1.1 (0.6-1.8) | 1 | | | |
| 1 | 263 | 9 | 3.4 (1.7-6.6) | 3.2 (1.3-7.3) | | | |
| 2 & 3 | 11 | 1 | 9.1 (0.5-43) | 9.1 (0.5-52.1) | | | |
| Surveillance period | | | | | 0.781 | | 0.781 |
| May 2018 - Jan 2019 | 342 | 5 | 1.5 (0.5-3.6) | 1 | | | |
| Feb 2019 - Oct 2019 | 819 | 11 | 1.3 (0.7-2.5) | 0.9 (0.3-2.9) | | | |
| Jan 2020 - July 2020 | 490 | 9 | 1.8 (0.9-3.6) | 1.3 (0.4-4.1) | | | |
| Surgical procedures | | | | | | | |
| Amputation | 7 | 1 | 14 (0.8-58) | 11.3 (0.6-69.4) | 0.091 | 18 (1.1-282.2) | 0.091 |
| Cholecystectomy | 147 | 3 | 2 (0.5-6.3) | 1.4 (0.3-4.1) | 0.601 | 3.7 (0.7-19.3) | 0.601 |
| CRIF | 1 | 0 | 0 (0-95) | | 0.861 | | . |
| Debridement | 0 | 0 | | | | | . |
| Gastrojejunostomy | 7 | 0 | 0 (0-44) | | 0.644 | | . |
| Laparotomy without bowel injury | 0 | 0 | | | | | . |
| ORIF | 192 | 2 | 1 (0.2-4.1) | 0.7 (0.1-2.2) | 0.549 | | 0.549 |

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|----------------|-----------------------------------|----------------------------------|---------------------------|---|-----------------|---|--|
| Abdominal | 187 | 12 | 6.4 (3.5-11) | 7.7 (3.4-17.1) | <0.001 | 3.9 (1-15.7) | <0.001 |
| Head & Neck | 97 | 1 | 1 (0.1-6.4) | 0.7 (0-3.2) | 0.671 | | 0.671 |
| Lower limb | 405 | 0 | 0 (0-1.2) | | <0.001 | | . |
| Spinal | 319 | 6 | 1.9 (0.8-4.3) | 1.3 (0.5-3.2) | 0.561 | 3.2 (0.7-15.3) | 0.561 |
| Upper limb | 33 | 0 | 0 (0-13) | | 0.313 | | . |

Note: OR (95%CI), odds ratio with 95% confidence interval.
*Univariate Logistic Regression