Supplementary materials

**Supplementary Table S1** Risk factors for surgical site infection in a case-cohort study of 189 patients undergoing plastic surgery or hand surgery between January, 2016, and April, 2018, University Hospital Zurich.

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| **Predictor or risk factor** | **Control**(n=126) | **Surgical site infection**(n=63) | ***P*-value** |
| **General**  |  |  |  |
| Surgery during intervention period, n (%) | 60 (47.6) | 25 (39.7) | 0.35 |
| Age, years, median (range) | 50 (16-96) | 52 (21-86) | 0.47 |
| Female sex, n (%) | 59 (46.8) | 25 (39.7) | 0.44 |
| ASA score, n (%) |  |  |  |
|  I | 49 (38.9) | 14 (22.2) | 0.044 |
|  II | 54 (42.9) | 31 (49.2) |
|  III | 21 (16.7) | 18 (28.6) |
|  IV | 2 (1.6) | 0 (0) |
| Hand surgery, n (%) | 46 (36.5) | 21 (33.3) | 0.75 |
| Surgery in main operating room, n (%) | 100 (79.4) | 47 (74.6) | 0.46 |
| Duration of operation, minutes, median (range) | 50 (9-530)) | 80 (14-620) | 0.018 |
| Elective surgery, n (%) | 121 (96.0) | 56 (88.9) | 0.11 |
| Implant, n (%) | 27 (21.4) | 10 (15.9) | 0.44 |
| Wound contamination class, n (%) |  |  |  |
|  I | 105 (83.3) | 49 (77.8) | 0.31 |
|  II | 8 (6.4) | 4 (6.4) |
|  III | 5 (4.0) | 1 (1.6) |
|  IV | 8 (6.4) | 9 (14.3) |
| Preoperative administration of antibiotics, n (%) | 111 (88.1) | 55 (87.8) | 1.00 |
| Antibiotic prophylaxis within 1 hour before incision, n (%) | 94/111 (87.9) | 43/55 (79.6) | 0.24 |
| Time between administration of antibiotic prophylaxis and incision, minutes, median (range) | 30 (0-90) | 37 (0-95) | 0.63 |
| Lowest intraoperatively measured body, centigrades, median (range) | 36.2 (34.8-37.5) | 36.2 (34.8-37.4) | 0.84 |
| Intraoperative normothermia (≥36°C), n (%) | 69/108 (63.9) | 37/55 (67.3) | 0.73 |
| Revision surgery, n (%) | 11 (8.7) | 13 (20.6) | 0.035 |
| Note: some denominators are lower than overall patient population due to missing data.Abbreviations: ASA, American Society of Anesthesiologists |