**Supplemental Digital Content 4.** Specification of subsequent surgeries.

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| **Study** | **Group(s)(n)** | **Specification of subsequent surgeries** |
|  |  | **SP** |  | **IP** |
| Cazatto et al. 201823 | SP (25) | Implant removal (n=6) |  | NR |
| Chan et al. 201612 | SP (11) vs IP (14) | Revision for non-union (n=1) |  | NR |
| Fu et al. 201624 | SP (23) | Implant removal (n=11) |  | NR |
| Jones et al. 201410 | SP (36) vs IP (38) | Revision infected non-union (n=1) |  | NR |
| Leliveld et al. 201242 | IP (72) | NR |  | Removal proximal locking screws (n=8), nail exchange (n=3), bone graft (n=3) and implant removal (n=33) |
| MacDonald et al. 201943 | SP (53) vs IP (42) | Removal proximal locking screws (n=5), removal distal locking screws (n=6), nail removal for infection (n=2) |  | Removal distal locking screws (n=3) |
| Marecek et al. 201816 | SP (147) vs IP (142) | Infection (n=16) and non-infection (not specified) (n=14) |  | Infection (n=14) and non-infection (not specified) (n=14) |
| Sanders et al. 201414 | SP (37) | Masquelet technique (n=2) and screw removal (n=5) |  | NR |