**Supplementary file 1: Study design, data collection time points, method of collection, and measures across implementation phases of PTB**

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| **Design** | **Data collection time point** | **Method of data collection** | **Measures** |
| ***Prospective*** | Baseline: 3 months pre-implementation | Structured observations | SSC* Participation
* Sign-in
* Time-out
* Sign-out
 |
|  |  |  |  |
|  | 6 months post-implementation | Structured observations | SSC* Participation
* Sign-in
* Time-out
* Sign-out
 |
|  | 12 months post-implementation | Structured observations | SSC* Participation
* Sign-in
* Time-out
* Sign-out
 |
|  |  |  |  |
| ***Retrospective*** | 12 months pre-implementation12 months post-implementation | Clinical incident database audit | * Wrong site/side/level
* Retained foreign objects/miscounts
* Mislabelling of tissue specimens
* Surgical injuries, e.g., diathermy burns, positioning injuries, nerve damage
* Wrong or missing medication, e.g., antibiotics
* Pressure injuries, surgical site infections
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*Abbreviations:* SSC=Surgical Safety Checklist