**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-implementation  12 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 |

*Abbreviations:* SSC=Surgical Safety Checklist