**Supplement 2.** Examples of SSI prevention themes organized by domains from COM-B and its associated TDF constructs.

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| **COM-B Domain/TDF construct** | **Examples** |
| **Capability** |
| Skills | Surgical skills employed to prevent SSI in the pre-, intra-, or post-op care |
| Knowledge | Knowledge of SSI prevention bundle measures, or of audit and feedback processes |
| Memory, attention, and decision-making processes | Maintaining sterile field in the OR; clinical care decisions that affect outcomes under elective or emergency surgery conditions |
| Behavioral regulation | Changes in technique or practice in response to feedback, standardization, or guideline implementation |
| **Opportunity** |
| Social influences | Interactions with expert leaders or multidisciplinary teams involved in SSI prevention |
| Environmental context and resources | Resources available for SSI prevention; organizational or departmental context in which SSI prevention occurs |
| Social and professional role | Surgeon as team leader of SSI prevention  |
| Beliefs about capabilities | Perceived capability to improve SSI outcomes or modify SSI risk factors |
| Optimism | Confidence that further SSI reductions are achievable  |
| Beliefs about consequences | Perceived impact of SSI for patient, clinician, and organization |
| Motivation and goals  | Intrinsic or extrinsic motivators to achieve further SSI reductions |
| Emotion | Reaction to current processes related to SSI prevention bundle implementation and performance feedback  |