

Program evaluation of intraoperative Aseptic Practices (AP)

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Why is it important to improve the intraoperative AP?

- Currently, the paramount challenges for surgical patient safety are the surgical site infections (SSI) and the antimicrobial resistance. (1)
- The performance of AP and the acceptance of and self-reported adherence with the AP recommendations varies among OT personnel causing stress. (2)
- The European Council Recommendation of 9 June 2009 on patient safety, includes recommendations for the prevention and control of healthcare-associated infections (HAI) including surgical site infections (SSI). (3)

1) European Centre for Disease Prevention and Control. Surveillance of surgical site infections in European hospitals – HAISSE protocol. Version 1.02. Stockholm: ECDC; 2012.

2) Aholaakko, Teija-Kaisa 2018. Intraoperative aseptic practices and surgical site infections in breast surgery. Academic Dissertation. University of Helsinki. Medical Faculty. Doctoral School Health. Population Health Programme. Available at: <https://helda.helsinki.fi/handle/10138/249327>

3) EU Council. 2009. Council recommendation of 9 June 2009 on patient safety, including the prevention and control of healthcare-associated infections (2009/C/151/01). Accessed 4 January 2015. http://ec.europa.eu/health/patient_safety/docs/council_2009_en.pdf

What is known about intraoperative Aseptic Practices?

- Operating theatre (OT) personnel implement intraoperative aseptic practices (AP) to control and prevent surgical site infection (SSI). (2)
- The expanding antimicrobial resistance requires improved techniques and tools not-related to medication but evidence based technical norms.
- Costly and time consuming AP is considered important in both infection control (IC) and prevention (IP), despite the challenges of investigating the causality between APs and SSIs due to the lack of scientific evidence. (2)

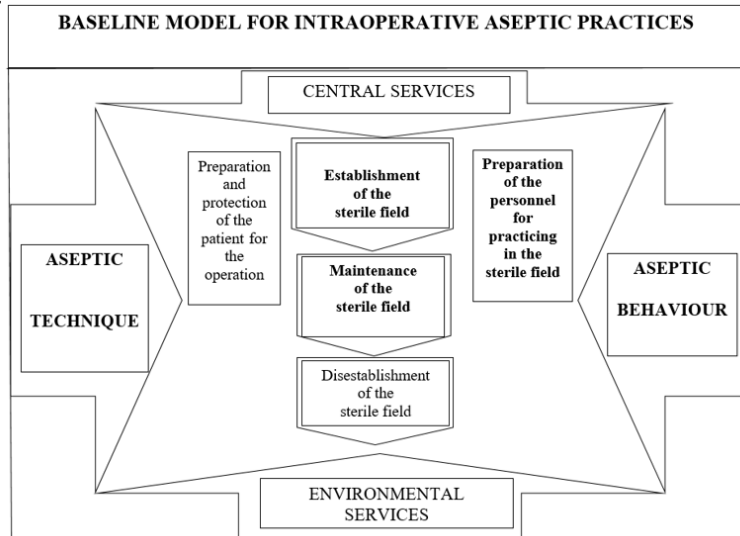
2) Aholaakko, Teija-Kaisa 2018. Intraoperative aseptic practices and surgical site infections in breast surgery. Academic Dissertation. University of Helsinki. Medical Faculty. Doctoral School Health. Population Health Programme. Available at: <https://helda.helsinki.fi/handle/10138/249327>

Methodological basis of the AP program evaluation:

Approaches:

- Knowledge-practice perspective on technology-mediated learning of the Intraoperative AP.
- Evidence based AP program evaluation.
- Multiprofessional and evidence based competence development.
- **P**= surgical patients and personnel in HC environments and HEIs.
- **I**= program evaluation of APs by using shared digital platform enabling structured co-creation, teaching and learning, implementation and evaluation of evidence-based intraoperative Aps.
- **Co** = intraoperative phase of surgical patient care constructed in digital platform.
- **O** = improved evidence based AP => decrease in SSIs and stress.

Intraoperative Aseptic Practices securing the surgical patient, personnel and environment (Aholaakko 2018©)



Competencies of Teija-Kaisa Aholaakko:

- PhD (Med), LicSc (Educ), MSc (Healthcare), RN (Spec.)
- Developmental evaluation of clinical competencies in acute, perioperative and surgical care with Helsinki University Hospital and Laurea UAS since 1990's .
- Developing nursing competencies within World Bank project in Kazakhstan as a desk researcher.
- Working as a specialist in an expert group of Nordic Council of Ministers' advancing infection prevention and control studies in Nordic HEIs.
- Partner in : ***Empowering Patients by Professional Stress Avoidance and Recovery Services***. STARS. H2020 (2017-2020).
- Member of ethical committees in HEI consortiums since 2013.

Requirements for partners

The required partners should be able to:

- 1) co-create digital evaluation environment with evidence-based tools for, guideline documentation and follow-up with epidemiological and behavioral learning and assessment tools;
- 2) co-create online tools and simulation programs for the life-long learning of intraoperative aseptic practices
- 3) serve test-bed for co-creation of intraoperative APs.

With:

Higher Education Institutes, National Institutes for Healthcare quality, Hospitals and other HC settings