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## The relationship between preoperative stoma site marking and stomal complications: A systematic review

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**Background:** Colorectal stoma complications are prevalent in patients with stomas. Preoperative stoma site marking is considered to be important for preventing postoperative complications, but not always being implemented among medical institutions.

**Aim:** To review the relationship between preoperative stoma site marking and stomal complications.

**Method:** This analysis was based on literature review of English and Chinese articles in 6 databases (EMBASE, Cochrane Library, MEDLINE complete, CINAHL, PubMed and Airiti library) using the following keywords: Stoma, preoperative, marking and complication with Boolean logic. A total of 46 studies published prior to June 2017 that met the inclusion and exclusion criteria were selected and 6 were eligible for the final analysis.

**Result:** Checklists for case control studies and cohort studies of the Joanna Briggs Institute were used for appraisal. Four of these studies showed that preoperative stoma site marking was significantly associated with a reduced risk of postoperative complications, while the other two studies indicated non-significant results.

**Conclusion:** Literature discloses the tendency to prevent postoperative complications by carrying out stomal site marking before surgery. Future studies could use increase sample size for generalizability, or conduct meta-analysis to incorporate a broad source of evidence to provide rigorous suggestions for clinical applications.

### Biography

Yi-Chuan Chen is a Registered Nurse and worked in a medical center in Taiwan. She has completed her Master's degree of Nursing in National Taiwan University in 2015. Currently she is pursuing her PhD from School of Nursing, working as a Research Assistant and involved in researches related to nursing working environment and occupational health.

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