

### **Biostatistics statement**

All full-text articles that met the inclusion criteria were thoroughly reviewed and data for primary and secondary outcome were extracted and filled into a data-form. Year of publication, study period, level of evidence, mean age, gender, number of patients included and evaluated, type of stoma, surgical technique (open or laparoscopic, anatomical mesh position, Keyhole or Sugarbaker), type of mesh (biological or synthetic) and duration of follow-up were also noted. Weighted pooled proportions with their 95% confidence interval (CI) were determined for recurrence, wound infection, mesh infection, other complications and mortality using Stats Direct statistical software. The heterogeneity concerning the outcome measures was determined with the Cochran's Q test and quantified using  $I^2$ . A random-effects model was used unless heterogeneity was 0% in which case fixed-effect model was used. The meta-analysis was performed with Review Manager with significance set at  $p < 0.05$ .