



EVIDENCE SYNTHESIS  
IRELAND



Cochrane  
Ireland

## Evidence Synthesis Ireland Fellowship Scheme Review Identification Form

### Review Centre/Group Mentor

Warwick Evidence, University of Warwick

Group mentors: Dr Yen-Fu Chen and Dr Lena al Khudairy

### Review title

SUMU-Endo: Single-use versus Multiple-use Endoscopes in gastroenterology: a scoping review of clinical, economic and environmental literature followed by systematic reviews

### Review type and methods–

SUMU-Endo: this will involve a scoping review covering clinical, economic and environmental literature related to single-use versus reusable endoscopes for gastroenterology and a systematic review of comparative technical performance, test accuracy and clinical effectiveness and safety (infection risk). The Fellow will be able to shadow an information specialist on how search strategies are constructed, and be involved in screening, selection and charting of studies for the scoping review. These will be followed by the full process of conducting a quantitative systematic review including data extraction and critical appraisal of studies of various designs related to test accuracy and clinical effectiveness. Depending on the amount of time the Fellow can commit, there are further opportunities for the Fellow to be involved in appraisal and synthesis of literature related cost-effectiveness and environmental impact.

### Review information

This review is funded by the NIHR Health and Social Care Delivery Research programme.

### Review details

SUMU-Endo: this evidence synthesis will be carried out as part of a multi-methods study funded by the UK NIHR to evaluate how choices can be made to balance infection risk and economic and environmental impact of single-use versus multiple-use endoscopes in gastroenterology. Further details of the wider project can be found on the NIHR webpage [here](#).

The PICOS framework for the scoping review is:

P: patients undergoing endoscopic procedures of the gastrointestinal (GI) tract; health professionals undertaking the endoscopic procedures, and other personnels who are involved in cleaning, reprocessing and disposal of GI endoscopes.

I: single-use GI endoscopes

C: multiple-use GI endoscopes

O: technical performance, test accuracy, clinical effectiveness, economic and environmental impact

S: studies of various design that provide empirical evidence will be considered

#### **Review current status**

Further scoping searches will be carried out in May and the protocols will be registered in June 2023.

#### **Any specific/desirable requirements for fellow (e.g. clinical expertise, methodological expertise)**

There are no specific requirements, but some understanding of principles of study design and evidence synthesis, and experience and/or keen interest in related topic areas would be an advantage.

#### **Estimated start and completion dates**

Start date June 2023, end date 31<sup>st</sup> May 2025.