(A) Full text screening form

Open mesh repairs in adults presenting with a clinically diagnosed unilateral, primary inguinal hernia– Study screening form

Assessor initials:	**Date:**
Study identifier (Surname of first author + year of publication)	

Type of study and intervention Q1. Is the study: ☐ An RCT in which participants are randomised to receive *open pre-peritoneal mesh repair or Lichtenstein repair?	Yes ⇩ Go to next question Unclear ⇩ No ⇩ **Exclude**
Participants in the study Q2. Are the participants: ☐ Adults (>18 years)? ☐ Presenting with clinically diagnosed unilateral and primary inguinal hernia?	Yes ⇩ Go to next question Unclear ⇩ No ⇩ **Exclude**
Setting Q3. Are the patients operated in an appropriate elective (surgical) setting?	Yes ⇩ Go to next question Unclear ⇩ No ⇩ **Exclude**
Outcomes reported Q4. Did the study report any of the following outcomes? *Patient reported outcomes:* ☐ Chronic pain (>3 months after repair) (any measures) ☐ Chronic numbness (>3 months after repair) (any measures) ☐ Acute pain (<3 months after repair) (any measures) ☐ Acute numbness (<3 months after repair) (any measures) ☐ Quality of life (any measures) *Clinical and surgical outcomes:* ☐ Mortality ☐ Complications (haematoma, seroma, wound/superficial infection, mesh/deep infection, vascular injury, visceral injury, port site hernia, other serious complications) ☐ Recurrence/re-operation rate ☐ Length of hospital stay (days) ☐ Time to return to normal activities (days)	Yes ⇩ Go to next question Unclear ⇩ No ⇩ **Exclude**
Decision	*Include* *Unclear* clarification required *Exclude*

*Open pre-peritoneal mesh repairs can be performed using various techniques including **Kugel patch repair, Read-Rives repair, Transinguinal preperitoneal repair, Stoppa repair and Nyhus repair.**

(B) Data extraction form

Open mesh repairs in adults presenting with a clinically diagnosed unilateral, primary inguinal hernia: data extraction form

Reviewer ID **Date**	
ADMINISTRATION DETAILS	
Study ID	
Publication status	
Papers this study may link with	
AIM OF THE STUDY	
STUDY DETAILS	
Study design	
Country	
Surgical setting	
Number of centres	
Surgery date	
Study duration	
Eligibility criteria for the study	
Inclusion criteria	
Exclusion criteria	
Interventions and comparators	
Comparisons (Intervention versus comparator)	
Details of the surgical procedure of intervention	

(e.g., incision made, type of mesh used, mesh fixation techniques, surgeon's experience)	
Details of the surgical procedure of comparator **(e.g., incision made, type of mesh used, mesh fixation techniques, surgeon's experience)**	
Details of anaesthesia/ analgesics used for surgery	
Details of antibiotic prophylaxis	
Description of follow up after surgery (state time points)	
Primary outcomes reported	
Secondary outcomes reported	
Adverse events reported	
Details on study power and statistical analysis/ outcome assessment	
Source of funding	
Additional information	

PATIENT CHARACTERISTICS					
Number of participants, n (%)		**Total**	**Lichtenstein**	**Open pre-peritoneal**	
Screened					
	Excluded				
Enrolled					
	Excluded				
Randomised					
	Lost to follow up				
Analysed					
	Excluded				
Reason for exclusion / lost to follow up					

Patient baseline characteristics	**Total**	**Lichtenstein**	**Open pre-peritoneal**	**Difference between the groups**
Total patients, n				
Age (years) (mean/median, SD/range)				
Gender (M/F), n (%)				
Type of inguinal hernia				
Direct, n (%)				
Indirect, n (%)				
Pantaloon, n (%)				
Unclassified, n(%)				
BMI (mean, range)				
Height (cms)(mean, range)				
Weight (kgs) (mean, range)				
Time taken to complete surgery, mins				
Comorbidity (specify type), n(%)				
Additional information				

PATIENT REPORTED OUTCOMES (Pain/Numbness/Quality of life)								
Outcomes	**Specify measures (e.g., no of events, mean VAS score etc.)**	**Follow up time, months**	**Lichtenstein**		**Open pre-peritoneal**		**Difference between groups (P value)**	**Definition/ Additional information**
			Total (N)	**Values**	**Total (N)**	**Values**		
Chronic pain (>3 months after repair)								
Chronic numbness (>3 months after repair)								
Acute pain (<3 months after repair)								
Acute numbness (<3 months after repair)								
Quality of life								
Additional patient reported outcomes								

CLINICAL OUTCOMES (Mortality/Recurrence/Complications)								
Outcomes	**Specify measures**	**Follow up time, months**	**Lichtenstein**		**Open pre-peritoneal**		**P value**	**Additional information**
			Events (n)	**Total (N)**	**Events (n)**	**Total (N)**		
Mortality								
Recurrence/re-operation rate								
Complications								
haematoma								
wound/superficial infection								
mesh/deep infection								
seroma								
vascular injury								
visceral injury								
port site hernia								
other serious complications								
Other complications								
Other outcomes								

LENGTH OF HOSPITAL STAY/ TIME TO RETURN TO NORMAL ACTIVITIES							
Outcomes	**Specify measures**	**Lichtenstein**		**Open pre-peritoneal**		**Difference between the groups (P value)**	**Additional information**
		Total (N)	**Values**	**Total (N)**	**Values**		
Length of hospital stay (days)							
Time to return to normal activities (days)							

QUALITY OF THE STUDY		
Quality Domain	***Details***	***low/high/unclear risk of bias***
Adequate sequence generation		
Allocation concealment		
Blinding of participants		
Blinding outcome assessment		
Incomplete outcome data addressed		
Free of selective reporting		
Other sources of bias		
Note: Please assess each included outcomes for blinding of outcome assessment and incomplete outcome data addressed domains.		