The S	FROCSS 2019 Guideline	
Item	Item description	Page
no.		
TITLE		
1	Title:	
	The word cohort or cross-sectional or case-controlled is included	Title
	- The area of focus is described (e.g. disease, exposure/intervention,	
	outcome)	Page
	- Key elements of study design are stated (e.g. retrospective or	
ABSTI	prospective)	
2a	Introduction: the following points are briefly described - Background	4
	- Scientific Rationale for this study	I I
2b	Methods: the following areas are briefly described	
25	- Study design (cohort, retro-/prospective, single/multi-centred)	.
	- Patient populations and/or groups, including control group, if applicable	1
	- Interventions (type, operators, recipients, timeframes)	
	- Outcome measures	
2c	Results: the following areas are briefly described	_
	- Summary data (with statistical relevance) with qualitative descriptions,	1
	where appropriate	_
2d	Conclusion: the following areas are briefly described	
	- Key conclusions	4
	- Implications to practice	
	- Direction of and need for future research	
	DUCTION	I
3	Introduction: the following areas are described in full	
	- Relevant background and scientific rationale	2
	Aims and objectivesResearch question and hypotheses, where appropriate	
METH		
4a	Registration and ethics	
74	- Research Registry number is stated, in accordance with the	
	declaration of Helsinki*	
	- All studies (including retrospective) should be registered before	
	submission	3
	*"Every research study involving human subjects must be registered in a	
	publicly accessible database before recruitment of the first subject" (this can	
	be obtained from: ResearchRegistry.com or ClinicalTrials.gov or ISRCTN)	
4b	Ethical Approval: the following areas are described in full	
	- Necessity for ethical approval	
	- Ethical approval, with relevant judgement reference from ethics	ろ
	committees	
1.5	- Where ethics was unnecessary, reasons are provided	
4c	Protocol: the following areas are described comprehensively	2
	- Protocol (a priori or otherwise) details, with access directions	ろ
	If published, journal mentioned with the reference provided	

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4d	Patient Involvement in Research	_
	- Describe how, if at all, patients were involved in study design e.g. were	3
	they involved on the study steering committee, did they provide input	
	on outcome selection, etc.	
5a	Study Design: the following areas are described comprehensively	3
	- 'Cohort' study is mentioned	
	- Design (e.g. retro-/prospective, single/multi-centred)	
5b	Setting: the following areas are described comprehensively	
	- Geographical location	3
	- Nature of institution (e.g. academic/community, public/private)	J
	- Dates (recruitment, exposure, follow-up, data collection)	
5c	Cohort Groups: the following areas are described in full	_
	- Number of groups	3
	- Division of intervention between groups	
5d	Subgroup Analysis: the following areas are described comprehensively	
	- Planned subgroup analyses	3
	- Methods used to examine subgroups and their interactions	
6a	Participants: the following areas are described comprehensively	
Ja	- Eligibility criteria	_
	- Recruitment sources	3
Ch	- Length and methods of follow-up	
6b	Recruitment: the following areas are described comprehensively	9
	- Methods of recruitment to each patient group	3
	- Period of recruitment	
6c	Sample Size: the following areas are described comprehensively	
	- Margin of error calculation	3
	- Analysis to determine study population	
	- Power calculations, where appropriate	
	RVENTION AND CONSIDERATIONS	
7a	Pre-intervention Considerations: the following areas are described	
	comprehensively	
	- Patient optimisation (pre-surgical measures)	3
	- Pre-intervention treatment (hypothermia/-volaemia/-tension; ICU care;	
	bleeding problems; medications)	
7b	Intervention: the following areas are described comprehensively	
	- Type of intervention and reasoning (e.g. pharmacological, surgical,	
	physiotherapy, psychological)	_
	- Aim of intervention (preventative/therapeutic)	3
	- Concurrent treatments (antibiotics, analgaesia, anti-emetics, NBM,	
	VTE prophylaxis)	
	- Manufacturer and model details where applicable	
7c	Intra-Intervention Considerations: the following areas are described	
. •	comprehensively	
	- Administration of intervention (location, surgical details, anaesthetic,	
	positioning, equipment needed, preparation, devices, sutures,	2
	operative time)	J
	- Pharmacological therapies include formulation, dosages, routes and	
	durations	
	- Figures and other media are used to illustrate	

7d	Operator Details: the following areas are described comprehensively	
	- Training needed	
	- Learning curve for technique	
	- Specialisation and relevant training	
7e	Quality Control: the following areas are described comprehensively	
	- Measures taken to reduce variation	9
	- Measures taken to ensure quality and consistency in intervention	3
	delivery	
7f	Post-Intervention Considerations: the following areas are described	
	comprehensively	
	- Post-operative instructions and care	3-4
	- Follow-up measures	0 .
	- Future surveillance requirements (e.g. imaging, blood tests)	
8	Outcomes: the following areas are described comprehensively	
	- Primary outcomes, including validation, where applicable	
	- Definitions of outcomes	3-4
	- Secondary outcomes, where appropriate	
	- Follow-up period for outcome assessment, divided by group	
9	Statistics: the following areas are described comprehensively	
	- Statistical tests, packages/software used, and interpretation of	
	significance	3-4
	- Confounders and their control, if known	J- 4
	- Analysis approach (e.g. intention to treat/per protocol)	
	- Sub-group analysis, if any	
RESUI		
10a	Participants: the following areas are described comprehensively	
100	- Flow of participants (recruitment, non-participation, cross-over and	_
	withdrawal, with reasons)	4
	- Population demographics (prognostic features, relevant socioeconomic	
	features, and significant numerical differences)	
10b	Participant Comparison: the following areas are described comprehensively	
100	- Table comparing demographics included	1
	- Differences, with statistical relevance	4
	- Any group matching, with methods	
10c	Intervention: the following areas are described comprehensively	
100	- Changes to interventions, with rationale and diagram, if appropriate	
	- Changes to interventions, with rationale and diagram, if appropriate - Learning required for interventions	
110	- Degree of novelty for intervention	
11a	Outcomes: the following areas are described comprehensively	_
	- Clinician-assessed and patient-reported outcomes for each group	4
	- Relevant photographs and imaging are desirable	_
116	- Confounders to outcomes and which are adjusted	
11b	Tolerance: the following areas are described comprehensively - Assessment of tolerance	
	πετρεσπαίτ τι τηρεύηρα	
	- Loss to follow up, with reasons (percentage and fraction)	
44	Loss to follow up, with reasons (percentage and fraction)Cross-over with explanation	
11c	 Loss to follow up, with reasons (percentage and fraction) Cross-over with explanation Complications: the following areas are described comprehensively 	
11c	Loss to follow up, with reasons (percentage and fraction)Cross-over with explanation	4

	 Mitigation for adverse events (blood loss, wound care, revision surgery should be specified) 				
	*Dindo D, Demartines N, Clavien P-A. Classification of Surgical Complications. A New Proposal with Evaluation in a Cohort of 6336 Patients and Results of a Survey. Ann Surg. 2004; 240(2): 205-213				
12	Key Results: the following areas are described comprehensively - Key results, including relevant raw data - Statistical analyses with significance	4			
DISCU	SSION				
13	Discussion: the following areas are described comprehensively - Conclusions and rationale				
	Reference to relevant literatureImplications to clinical practice	4-7			
	 Comparison to current gold standard of care Relevant hypothesis generation 				
14	Strengths and Limitations: the following areas are described comprehensively - Strengths of the study	4 7			
	Limitations and potential impact on results	4-7			
	- Assessment of bias and management				
15	Implications and Relevance: the following areas are described				
	comprehensively	4 -			
	 Relevance of findings and potential implications to clinical practice are detailed 	4-7			
	 Future research that is needed is described, with study designs detailed 				
CONC	CONCLUSION				
16	Conclusions:	0			
	 Key conclusions are summarised 	8			
	 Key directions for future research are summarised 				
	DECLARATIONS				
17a	Conflicts of interest	8			
471	- Conflicts of interest, if any, are described	<u> </u>			
17b	Funding - Sources of funding (e.g. grant details), if any, are clearly stated	8			