The ST	ROCSS 2021 Guideline	
Item	Item description	Page
no.		
TITLE		
1	Title	
	 The word cohort or cross-sectional or case-control is included* 	1
	 Temporal design of study is stated (e.g. retrospective or prospective) 	1
	The focus of the research study is mentioned (e.g. population, setting,	
	disease, exposure/intervention, outcome etc.)	
	*STROCSS 2021 guidelines apply to cohort studies as well as other observational	
	studies (e.g. cross-sectional, case-control etc.)	
ABSTF	RACT	
2a	Introduction – briefly describe:	
	Background	2
	Scientific rationale for this study	
	Aims and objectives	
2b	Methods - briefly describe:	
	 Type of study design (e.g. cohort, case-control, cross-sectional etc.) 	2
	Other key elements of study design (e.g. retro-/prospective, single/multi-	
	centred etc.)	
	Patient populations and/or groups, including control group, if applicable	
	• Exposure/interventions (e.g. type, operators, recipients, timeframes etc.)	
0-	Outcome measures – state primary and secondary outcome(s) Decute: height describe:	
2c	Results - briefly describe:	2.2
	 Summary data with qualitative descriptions and statistical relevance, where appropriate 	2-3
2d	Conclusion - briefly describe:	
24	Key conclusions	3
	Implications for clinical practice	3
	Need for and direction of future research	
INTRO	DUCTION	
3	Introduction – comprehensively describe:	
	Relevant background and scientific rationale for study with reference to	4
	key literature	_
	Research question and hypotheses, where appropriate	
	Aims and objectives	
METHO	DDS	
4a	Registration	
	 In accordance with the Declaration of Helsinki*, state the research 	_
	registration number and where it was registered, with a hyperlink to the	5
	registry entry (this can be obtained from ResearchRegistry.com,	
	ClinicalTrials.gov, ISRCTN etc.)	
	All retrospective studies should be registered before submission; it should	
	be stated that the research was retrospectively registered	
	* "Every research study involving human subjects must be registered in a publicly	
	accessible database before recruitment of the first subject"	
4b	Ethical approval	
.~	Reason(s) why ethical approval was needed	5
	Name of body giving ethical approval and approval number)
	Where ethical approval wasn't necessary, reason(s) are provided	

4c	Protocol	
	Give details of protocol (a priori or otherwise) including how to access it	5
	(e.g. web address, protocol registration number etc.)	
4.1	If published in a journal, cite and provide full reference	
4d	Patient and public involvement in research	
	Declare any patient and public involvement in research Chata the states of the green religious metion to and the public.	5
	State the stages of the research process where patients and the public wars involved (a.g. patient requirement defining research outcomes).	
	were involved (e.g. patient recruitment, defining research outcomes, dissemination of results etc.) and describe the extent to which they were	
	involved.	
5a	Study design	
Ju	State type of study design used (e.g. cohort, cross-sectional, case-control	
	etc.)	5
	Describe other key elements of study design (e.g. retro-/prospective,	
	single/multi-centred etc.)	
5b	Setting and timeframe of research – comprehensively describe:	
	Geographical location	
	 Nature of institution (e.g. primary/secondary/tertiary care setting, district 	5
	general hospital/teaching hospital, public/private, low-resource setting	
	etc.)	
	 Dates (e.g. recruitment, exposure, follow-up, data collection etc.) 	
5c	Study groups	
	Total number of participants	8
	Number of groups	
	Detail exposure/intervention allocated to each group	
	Number of participants in each group	
5d	Subgroup analysis – comprehensively describe:	NT A
	Planned subgroup analyses	N.A.
C-	Methods used to examine subgroups and their interactions Particle and a property of the state of th	
6a	Participants – comprehensively describe:	
		8-9
	 Sources of recruitment (e.g. physician referral, study website, social media, posters etc.) 	0)
	 Length, frequency and methods of follow-up (e.g. mail, telephone etc.) 	
6b	Recruitment – comprehensively describe:	
OD	Methods of recruitment to each patient group (e.g. all at once, in batches,	5
	continuously till desired sample size is reached etc.)	3
	Any monetary incentivisation of patients for recruitment and retention	
	should be declared; clarify the nature of any incentives provided	
	Nature of informed consent (e.g. written, verbal etc.)	
	Period of recruitment	
6c	Sample size – comprehensively describe:	
	 Analysis to determine optimal sample size for study accounting for 	N.A.
	population/effect size	
	Power calculations, where appropriate	
	Margin of error calculation	
	DDS - INTERVENTION AND CONSIDERATIONS	
7a	Pre-intervention considerations – comprehensively describe:	5 6
	Preoperative patient optimisation (e.g. weight loss, smoking cessation,	5-6
	glycaemic control etc.)	
	Pre-intervention treatment (e.g. medication review, bowel preparation, pre-intervention treatment (e.g. medication review, bowel preparation)	
	correcting hypothermia/-volemia/-tension, mitigating bleeding risk, ICU	
	care etc.)	

7b	Intervention – comprehensively describe:	
70		
	Type of intervention and reasoning (e.g. pharmacological, surgical, physical property and particulate).	5-6
	physiotherapy, psychological etc.)	
	Aim of intervention (preventative/therapeutic)	
	Concurrent treatments (e.g. antibiotics, analgesia, anti-emetics, VTE	
	prophylaxis etc.)	
	Manufacturer and model details, where applicable	
7c	Intra-intervention considerations – comprehensively describe:	
	 Details pertaining to administration of intervention (e.g. anaesthetic, 	6
	positioning, location, preparation, equipment needed, devices, sutures,	
	operative techniques, operative time etc.)	
	 Details of pharmacological therapies used, including formulation, 	
	dosages, routes, and durations	
	Figures and other media are used to illustrate	
7d	Operator details – comprehensively describe:	NT A
	Requirement for additional training	N.A.
	Learning curve for technique	
	 Relevant training, specialisation and operator's experience (e.g. average 	
	number of the relevant procedures performed annually)	
7e	Quality control – comprehensively describe:	
	Measures taken to reduce inter-operator variability	27.4
	Measures taken to ensure consistency in other aspects of intervention	N.A.
	delivery	
	Measures taken to ensure quality in intervention delivery	
7f	Post-intervention considerations – comprehensively describe:	
• •	Post-operative instructions (e.g. avoid heavy lifting) and care	8
	Follow-up measures	0
	Future surveillance requirements (e.g. blood tests, imaging etc.)	
8	Outcomes – comprehensively describe:	
O	Primary outcomes, including validation, where applicable	8-9
	 Secondary outcomes, where appropriate 	0)
	D 6 111	
	If any validated outcome measurement tools are used, give full reference Full and the second of the second o	
_	Follow-up period for outcome assessment, divided by group	
9	Statistics – comprehensively describe:	
	Statistical tests and statistical package(s)/software used	8
	Confounders and their control, if known	
	 Analysis approach (e.g. intention to treat/per protocol) 	
	Any sub-group analyses	
	Level of statistical significance	
RESUI		1
10a	Participants – comprehensively describe:	
	 Flow of participants (recruitment, non-participation, cross-over and 	5
	withdrawal, with reasons). Use figure to illustrate.	
	 Population demographics (e.g. age, gender, relevant socioeconomic 	
	features, prognostic features etc.)	
	Any significant numerical differences should be highlighted	
10b	Participant comparison	
	 Include table comparing baseline characteristics of cohort groups 	N.A.
	Give differences, with statistical relevance	1 1.11.
<u></u>	Describe any group matching, with methods	
10c	Intervention – comprehensively describe:	6

	Degree of novelty of intervention	
	Learning required for interventions	
	 Any changes to interventions, with rationale and diagram, if appropriate 	
11a	Outcomes – comprehensively describe:	
	 Clinician-assessed and patient-reported outcomes for each group 	8
	 Relevant photographs and imaging are desirable 	
	 Any confounding factors and state which ones are adjusted 	
11b	Tolerance – comprehensively describe:	
	 Assessment of tolerability of exposure/intervention 	N.A.
	Cross-over with explanation	
	 Loss to follow-up (fraction and percentage), with reasons 	
11c	Complications – comprehensively describe:	
	 Adverse events and classify according to Clavien-Dindo classification* 	8
	Timing of adverse events	
	 Mitigation for adverse events (e.g. blood transfusion, wound care, revision 	
	surgery etc.)	
	*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 – comprehensively describe:	
	Key results with relevant raw data	0.0
	Statistical analyses with significance	8-9
	Include table showing research findings and statistical analyses with	
	significance	
DISCU		
13	Discussion – comprehensively describe:	
	Conclusions and rationale	9-11
	Reference to relevant literature	,
	Implications for clinical practice	
	Comparison to current gold standard of care	
	Relevant hypothesis generation	
14	Strengths and limitations – comprehensively describe:	
	Strengths of the study	11
	Weaknesses and limitations of the study and potential impact on results	11
	and their interpretation	
	Assessment and management of bias	
	Deviations from protocol, with reasons	
15	Relevance and implications – comprehensively describe:	
	Relevance of findings and potential implications for clinical practice	10 11
	 Need for and direction of future research, with optimal study designs 	10-11
	mentioned	
CONCL		
16	Conclusions	
	Summarise key conclusions	11
	Outline key directions for future research	
	RATIONS	
17a	Conflicts of interest	11
	Conflicts of interest, if any, are described	11
17b	Funding	
	 Sources of funding (e.g. grant details), if any, are clearly stated 	11
	Role of funder	
17c	Contributorship	11
	 Acknowledge patient and public involvement in research; report the extent of 	11
	involvement of each contributor	