The ST	ROCSS 2021 Guideline	
Item no.	Item description	Page
TITLE		
1	Title	
'	The word cohort or cross-sectional or case-control is included*	
	Temporal design of study is stated (e.g. retrospective or prospective)	
	The focus of the research study is mentioned (e.g. population, setting,	
	disease, exposure/intervention, outcome etc.)	1
	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.)	
ABSTR	ACT	
2a	Introduction – briefly describe:	
	Background	1
	Scientific rationale for this study	•
	Aims and objectives	
2b	Methods - briefly describe:	
	 Type of study design (e.g. cohort, case-control, cross-sectional etc.) 	1
	 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.) 	
	 Outcome measures – state primary and secondary outcome(s) 	
2c	Results - briefly describe:	
	 Summary data with qualitative descriptions and statistical relevance, 	1
	where appropriate	
2d	Conclusion - briefly describe:	
	Key conclusions	4
	Implications for clinical practice	1
	Need for and direction of future research	
INTRO	DUCTION	
3	Introduction – comprehensively describe:	
	 Relevant background and scientific rationale for study with reference to 	2-3
	key literature	20
	 Research question and hypotheses, where appropriate 	
	Aims and objectives	
METHO		
4a	Registration	
	 In accordance with the Declaration of Helsinki*, state the research 	3-4
	registration number and where it was registered, with a hyperlink to the	J -4
	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 recovered attitude involving burger authiopte mount be resistanted in a modellate	
	* "Every research study involving human subjects must be registered in a publicly	
4b	accessible database before recruitment of the first subject"	
40	Ethical approval	
	Reason(s) why ethical approval was needed Name of body giving ethical approval and approval number.	3-4
	Name of body giving ethical approval and approval number Where othical approval wasn't possessary reason(s) are provided.	
	 Where ethical approval wasn't necessary, reason(s) are provided 	

4c			
(e.g. web address, protocol registration number etc.) If published in a journal, cite and provide full reference Patient and public involvement in research Declare any patient and public involvement in research State the stages of the research process where patients and the public were involved (e.g. patient recruitment, defining research outcomes, dissemination of results etc.) and describe the extent to which they were involved. Sa Study design State type of study design used (e.g. cohort, cross-sectional, case-control etc.) Describe other key elements of study design (e.g. retro-/prospective, single/multi-centred etc.) Setting and timeframe of research – comprehensively describe: Geographical location Nature of institution (e.g. primary/secondary/tertiary care setting, district general hospital/teaching hospital, public/private, low-resource setting etc.) Dates (e.g. recruitment, exposure, follow-up, data collection etc.) Study groups Total number of participants Number of groups Total number of participants Number of participants in each group Number of participants in each group Number of participants in each group Subgroup analysis – comprehensively describe: Planned subgroup analyses Methods used to examine subgroups and their interactions a Sources of recruitment (e.g. physician referral, study website, social media, posters etc.) Length, frequency and methods of follow-up (e.g. mail, telephone etc.) Recruitment – comprehensively describe: Methods of recruitment (e.g. physician referral, study website, social media, posters etc.) 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 Analysis to determine ontimal sample size for study accounting for	4c		
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Analysis to determine ontimal sample size for study accounting for	6c		
population/effect size			N/A
Power calculations, where appropriate			
Margin of error calculation			
METHODS - INTERVENTION AND CONSIDERATIONS	METHO		
7a Pre-intervention considerations – comprehensively describe: N/A			N/A
Preoperative patient optimisation (e.g. weight loss, smoking cessation,		•	''''
glycaemic control etc.)			
Pre-intervention treatment (e.g. medication review, bowel preparation,		•	
			i
correcting hypothermia/-volentia/-tension, mitigating bleeding risk, ico		correcting hypothermia/-volemia/-tension, mitigating bleeding risk, ICU	

7b	Intervention – comprehensively describe:	N1/A
<i>1</i> D	Type of intervention and reasoning (e.g. pharmacological, surgical,	N/A
	physiotherapy, psychological etc.)	
	Aim of intervention (preventative/therapeutic)	
	 Concurrent treatments (e.g. antibiotics, analgesia, anti-emetics, VTE prophylaxis etc.) 	
7c	Manufacturer and model details, where applicable Intra-intervention considerations – comprehensively describe:	N1/A
70	Details pertaining to administration of intervention (e.g. anaesthetic,	N/A
	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:	N/A
<i>,</i> a	Requirement for additional training	IN/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:	N/A
. •	Measures taken to reduce inter-operator variability	IN/A
	Measures taken to reduce inter-operator variability Measures taken to ensure consistency in other aspects of intervention	
	delivery	
	Measures taken to ensure quality in intervention delivery	
7f	Post-intervention considerations – comprehensively describe:	NI/A
	Post-operative instructions (e.g. avoid heavy lifting) and care	N/A
	Follow-up measures	
	 Future surveillance requirements (e.g. blood tests, imaging etc.) 	
8	Outcomes – comprehensively describe:	N/A
_	Primary outcomes, including validation, where applicable	IN/A
	Secondary outcomes, where appropriate	
	Definition of outcomes	
	 If any validated outcome measurement tools are used, give full reference 	
	 Follow-up period for outcome assessment, divided by group 	
9	Statistics – comprehensively describe:	
9	Statistical tests and statistical package(s)/software used	
	 Statistical tests and statistical package(s)/software used Confounders and their control, if known 	3/4
		5/7
	 Analysis approach (e.g. intention to treat/per protocol) Any sub-group analyses 	
	Level of statistical significance	
RESUL		
<u>кезоц</u> 10а	Participants – comprehensively describe:	1.0
iva	Flow of participants (recruitment, non-participation, cross-over and)	4-6
	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 	
	Participant comparison	4.0
10h	Fallicipalit cullipalizuli	4-6
10b	•	
10b	 Include table comparing baseline characteristics of cohort groups 	
10b	•	

	Degree of novelty of intervention	N/A
	Learning required for interventions	
	 Any changes to interventions, with rationale and diagram, if appropriate 	
11a	Outcomes – comprehensively describe:	4-6
	 Clinician-assessed and patient-reported outcomes for each group 	
	 Relevant photographs and imaging are desirable 	
	 Any confounding factors and state which ones are adjusted 	
11b	Tolerance – comprehensively describe:	N/A
	 Assessment of tolerability of exposure/intervention 	
	Cross-over with explanation	
	 Loss to follow-up (fraction and percentage), with reasons 	
11c	Complications – comprehensively describe:	N/A
	 Adverse events and classify according to Clavien-Dindo classification* 	
	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:	4-6
	Key results with relevant raw data	
	Statistical analyses with significance	
	 Include table showing research findings and statistical analyses with 	
	significance	
DISCU		
13	Discussion – comprehensively describe:	6-9
	Conclusions and rationale	
	Reference to relevant literature	
	Implications for clinical practice	
	Comparison to current gold standard of care	
	Relevant hypothesis generation	
14	Strengths and limitations – comprehensively describe:	6-9
	Strengths of the study	
	Weaknesses and limitations of the study and potential impact on results	
	and their interpretation	
	Assessment and management of bias	
	Deviations from protocol, with reasons	
15	Deviations from protocol, with reasons Relevance and implications – comprehensively describe:	6-9
15	 Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice 	6-9
15	 Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs 	6-9
	 Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned 	6-9
CONCI	Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned LUSION	
	Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned LUSION Conclusions	6-9
CONCI	Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned USION Conclusions Summarise key conclusions	
CONCI 16	Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned USION Conclusions Summarise key conclusions Outline key directions for future research	
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16 DECLA	Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned LUSION Conclusions Summarise key conclusions Outline key directions for future research RATIONS Conflicts of interest Conflicts of interest, if any, are described	9
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16 DECLA	Deviations from protocol, with reasons Relevance and implications – comprehensively describe: Relevance of findings and potential implications for clinical practice Need for and direction of future research, with optimal study designs mentioned LUSION Conclusions Summarise key conclusions Outline key directions for future research RATIONS Conflicts of interest Conflicts of interest, if any, are described	9

17c	Contr	ibutorship	9
	•	Acknowledge patient and public involvement in research; report the extent of	
		involvement of each contributor	

Table 2: The full revised STROCSS 2021 checklist