The ST	ROCSS 2021 Guideline	
Item no.	Item description	Page
TITLE		
1	Title	1
	 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.)	
	*STROCSS 2021 guidelines apply to cohort studies as well as other observational	
ADOTE	studies (e.g. cross-sectional, case-control etc.)	
ABSTE		
2a	Introduction – briefly describe:	2
	Background Scientific retionals for this study	
	Scientific rationale for this study Aims and chicatives	
2b	Aims and objectives Methods - briefly describe:	2
20	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.) 	
	Outcome measures – state primary and secondary outcome(s)	
2c	Results - briefly describe:	2
	Summary data with qualitative descriptions and statistical relevance,	
	where appropriate	
2d	Conclusion - briefly describe:	2
	Key conclusions	
	Implications for clinical practice	
	Need for and direction of future research	
	DUCTION	1
3	Introduction – comprehensively describe:	4
	Relevant background and scientific rationale for study with reference to	
	key literature	
	Research question and hypotheses, where appropriate	
	Aims and objectives	
METHO		\ -
4a	Registration	5
	In accordance with the Declaration of Helsinki*, state the research and whore it was registered with a hyperlink to the	
	registration number and where it was registered, with a hyperlink to the 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	5
	Reason(s) why ethical approval was needed	
	Name of body giving ethical approval and approval number	
	Where ethical approval wasn't necessary, reason(s) are provided	1

4c	Protocol	-
	Give details of protocol (a priori or otherwise) including how to access it	
	(e.g. web address, protocol registration number etc.)	
	If published in a journal, cite and provide full reference	
4d	Patient and public involvement in research	5
	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.	
5a	Study design	7
	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.)	
5b	Setting and timeframe of research – comprehensively describe:	5
	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.)	_
5c	Study groups	5
	Total number of participants	
	Number of groups	
	Detail exposure/intervention allocated to each group	
	Number of participants in each group	
5d	Subgroup analysis – comprehensively describe:	-
	Planned subgroup analyses Matheda wood to avarying out province and their interactions.	
Co	Methods used to examine subgroups and their interactions Destination and the subgroups are subgroups.	5
6a	Participants – comprehensively describe:	5
	Inclusion and exclusion criteria with clear definitions Courses of requirement (a.g., physician referral, study, we haite, assield).	
	Sources of recruitment (e.g. physician referral, study website, social modia, posters etc.)	
	media, posters etc.)	
6b	 Length, frequency and methods of follow-up (e.g. mail, telephone etc.) Recruitment – comprehensively describe: 	5
OD	Methods of recruitment to each patient group (e.g. all at once, in batches,	3
	continuously till desired sample size is reached 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	
6c	Sample size – comprehensively describe:	5
	Analysis to determine optimal sample size for study accounting for	
	population/effect size	
	Power calculations, where appropriate	
	Margin of error calculation	
METH	Margin of error calculation ODS - INTERVENTION AND CONSIDERATIONS	
	ODS - INTERVENTION AND CONSIDERATIONS	_
METH 7a	ODS - INTERVENTION AND CONSIDERATIONS Pre-intervention considerations – comprehensively describe:	-
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7h	Intervention comprehensively describe:	F 7
7b	Intervention – comprehensively describe:	5-7
	Type of intervention and reasoning (e.g. pharmacological, surgical,	
	physiotherapy, psychological etc.)	
	Aim of intervention (preventative/therapeutic) Consument treatments (a.g. antibiotics and leading anti-prestice VTE)	
	Concurrent treatments (e.g. antibiotics, analgesia, anti-emetics, VTE prophylogic etc.)	
	prophylaxis etc.)	
7c	Manufacturer and model details, where applicable Intra-intervention considerations – comprehensively describe:	6
70	Details pertaining to administration of intervention (e.g. anaesthetic,	0
	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:	-
	Requirement for additional training	
	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	
	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:	-
	 Post-operative instructions (e.g. avoid heavy lifting) and care 	
	Follow-up measures	
	Future surveillance requirements (e.g. blood tests, imaging etc.)	
8	Outcomes – comprehensively describe:	7
	 Primary outcomes, including validation, where applicable 	
	 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:	7
	 Statistical tests and statistical package(s)/software used 	
	Confounders and their control, if known	
	Analysis approach (e.g. intention to treat/per protocol)	
	Any sub-group analyses	
DEC	Level of statistical significance	
RESU		10
10a	Participants – comprehensively describe:	8
	Flow of participants (recruitment, non-participation, cross-over and with reasons). Lee figure to illustrate.	
	withdrawal, with reasons). Use figure to illustrate.	
	Population demographics (e.g. age, gender, relevant socioeconomic features, prognestic features, etc.)	
	features, prognostic features etc.)	
10b	Any significant numerical differences should be highlighted Participant comparison	8-12
IUU		0-12
	 Include table comparing baseline characteristics of cohort groups Give differences, with statistical relevance 	
	 Give differences, with statistical relevance Describe any group matching, with methods 	
10c	Intervention – comprehensively describe:	9
100	Intervention - comprehensively describe.	J

		,
	Degree of novelty of intervention	
	Learning required for interventions	
	 Any changes to interventions, with rationale and diagram, if appropriate 	
11a	Outcomes – comprehensively describe:	8-12
	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:	-
	 Assessment of tolerability of exposure/intervention 	
	Cross-over with explanation	
	 Loss to follow-up (fraction and percentage), with reasons 	
11c	Complications – comprehensively describe:	12-13
	 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:	21
	Key results with relevant raw data	
	Statistical analyses with significance	
	 Include table showing research findings and statistical analyses with 	
	significance	
DISCU	SSION	
13	Discussion – comprehensively describe:	13-21
	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:	21-22
	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	Relevance and implications – comprehensively describe:	21
	Relevance of findings and potential implications for clinical practice	
	 Need for and direction of future research, with optimal study designs 	
	mentioned	
CONC	LUSION	
16	Conclusions	22
	Summarise key conclusions	
	Outline key directions for future research	
	RATIONS	
17a	Conflicts of interest	22
	Conflicts of interest, if any, are described	
17b	Funding	22
	 Sources of funding (e.g. grant details), if any, are clearly stated 	
	Role of funder	

17c	Contributorship		1
	•	Acknowledge patient and public involvement in research; report the extent of	
		involvement of each contributor	

Table 2: The full revised STROCSS 2021 checklist

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