

STROBE Statement - completed checklist

Manuscript: Association of treatment method on mortality and functional outcome in patients with displaced femoral neck fracture

Section	Item	Recommendation	Page(s) in manuscript
Title and abstract	1a	Indicate the study's design with a commonly used term in the title or the abstract	1
	1b	Provide in the abstract an informative and balanced summary of what was done and what was found	1
Introduction	2	Explain the scientific background and rationale for the investigation being reported	2
	3	State specific objectives, including any prespecified hypotheses	2
Methods	4	Present key elements of study design early in the paper	2
	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	2
	6a	Cohort study: Give eligibility criteria, sources and methods of selection of participants, and methods of follow-up	2; Fig. 1 p. 11-12
	6b	For matched studies, give matching criteria and number of exposed and unexposed	N/A (not a matched cohort)
	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers	2-3
	8	For each variable of interest, give sources of data and details of methods of assessment	2-3
	9	Describe any efforts to address potential sources of bias	3, 7-8
	10	Explain how the study size was arrived at	2; Fig. 1 p. 11-12
	11	Explain how quantitative variables were handled in the analyses, including groupings	2-3
	12a	Describe all statistical methods, including those used to control for confounding	3-4
	12b	Describe methods used to examine subgroups and interactions	3
	12c	Explain how missing data were addressed	2; Tables 1-4 pp. 12-14
	12d	Cohort study: If applicable, explain how loss to follow-up was addressed	2, 8; Fig. 1 pp. 11-12
	12e	Describe any sensitivity analyses	N/A (no sensitivity analysis reported)
Results	13a	Report numbers of individuals at each stage of study and numbers completing follow-up and analysed	4; Fig. 1 pp. 11-12
	13b	Give reasons for non-participation at each stage	2; Fig. 1 pp. 11-12
	13c	Consider use of a flow diagram	Fig. 1 pp. 11-12
	14a	Give characteristics of study participants and information on exposures and potential confounders	4; Table 1 p. 12
	14b	Indicate number of participants with missing data for each variable of interest	2; Table 1 p. 12; Tables 2-4 pp. 13-14
	14c	Cohort study: Summarise follow-up time	2-3
	15	Report numbers of outcome events or summary measures over time	4-5; Tables 2-4 pp. 13-14; Fig. 2 pp. 14-15
	16a	Give unadjusted and confounder-adjusted estimates and their precision; state confounders adjusted for	4-5; Tables 2-4 pp. 13-14
	16b	Report category boundaries when continuous variables were categorized	3
	16c	If relevant, translate estimates of relative risk into absolute risk for a meaningful time period	N/A
	17	Report other analyses, e.g. subgroup and interaction analyses	5; Tables 3-4 p. 14; Fig. 2 pp. 14-15
Discussion	18	Summarise key results with reference to study objectives	6
	19	Discuss limitations, including sources and direction/magnitude of potential bias or imprecision	7-8
	20	Give a cautious overall interpretation considering objectives, limitations, multiplicity, similar studies, and other evidence	6-8
	21	Discuss the generalisability (external validity) of the study results	6-8 (national registry context; interpretation/limitations)
Other information	22	Give the source of funding and role of funders	4