

STROBE Checklist for Retrospective Cohort Studies

Article: Alternating Pressure Air Mattresses in the Intensive Care Unit: A Cost-Effective Strategy for Preventing Stage III–IV Pressure Injuries: A Retrospective Cohort Study

Section & Item	Item Description	Reported in Manuscript (Page/Line)
Title & Abstract	Indicate the study's design with a commonly used term in the title or abstract	Title: "A Retrospective Cohort Study" (Page 1, Line 2); Abstract: "This retrospective cohort study" (Page 3, Line 61)
	Provide an informative and balanced summary of what was done and what was found	Abstract includes background, methods, results, conclusions (Pages 3–4, Lines 54–76)
Introduction	Explain the scientific background and rationale for the investigation	Introduction (Pages 4–5, Lines 81–105)
	State specific objectives and hypotheses	Page 5, Lines 101–108
Methods	Describe the setting, locations, and relevant dates	Page 5, Lines 111–117
	Give the eligibility criteria, and sources and methods of selection	Methods: inclusion/exclusion criteria (Pages 5–6, Lines 114–122)
	Clearly define all outcomes, exposures, predictors, etc.	PI staging, APAM use, risk factors PI staging, APAM exposure, (Pages 6–7, Lines 124–151)
	For each variable, give sources of data and details of assessment	Data sources: HIS and nurse pressure ulcer forms (Pages 6–7, Lines 146–148)
	Describe any efforts to address potential sources of bias	Standardized care protocols, same APAM model (Page 14, Lines 274–275)
	Explain how study size was arrived at	Post-hoc power analysis (Page 7, Lines 166–169)
	Explain how quantitative variables were handled	Continuous variables as mean±SD or median (IQR) (Pages 7–8, Lines 155–165)
	Describe all statistical methods	Statistical analysis section (Pages 7–8, Lines 153–165)
Results	Report numbers of individuals at each stage of study	Participant flow and exclusions described (Page 8, Lines 179–181)
	Give characteristics of study participants	Baseline characteristics and outcomes (Table 1, Page 9)
	Report numbers of outcome events	PI incidence before/after APAM implementation (Pages 10–11, Lines 197–216)
	Give unadjusted and adjusted estimates	Logistic regression analyses (Table 3, Page 12, Lines 232–245)
	Report other analyses	Subgroup analyses and ROC analyses (Pages 11–13, Lines 217–264; Table 2)
Discussion	Summarize key results with reference to objectives	Discussion (Page 14, Lines 286–290)
	Discuss limitations, considering sources of bias	Limitations discussed (Page 14, Lines 273–275)
	Give a cautious overall interpretation	Interpretation and implications (Page 14, Lines 281–285)
Other	Discuss generalizability Source of funding and role of funders Ethical approval and consent	Discussion (Page 14, Lines 286–290) None declared (Page 2, Lines 36–37) Ethics approval (Page 2, Lines 38–43)