

**STROBE Statement—Checklist of items that should be included in reports of observational studies**

**Study design:** Prospective observational study

**Manuscript title:** *Beyond Average Hand Hygiene Compliance: Performance Instability and Critical Low-Compliance Days Are Associated With Healthcare-Associated Infection Incidence in Intensive Care Units*

Section / Item	Item No.	Recommendation	Reported on page
<b>Title and abstract</b>	1(a)	Indicate the study's design in the title or the abstract	Title; Abstract
	1(b)	Provide an informative and balanced summary of what was done and what was found	Abstract
<b>Introduction</b>	2	Explain the scientific background and rationale	pp. 3–5
	3	State specific objectives, including prespecified hypotheses	p. 5
<b>Methods</b>	4	Present key elements of study design early in the paper	p. 6
	5	Describe the setting, locations, and relevant dates	p. 6
	6(a)	Give eligibility criteria and selection of participants	p. 6
	7	Clearly define all outcomes, exposures, predictors	pp. 7–8
	8	Describe data sources and measurement methods	pp. 6–8
	9	Describe efforts to address potential sources of bias	pp. 6–7
	10	Explain how the study size was arrived at	p. 13 (Limitations)
	11	Explain handling of quantitative variables	pp. 7–8
	12(a)	Describe all statistical methods	p. 9
	12(b)	Describe methods to examine subgroups/interactions	Not applicable
	12(c)	Explain how missing data were addressed	p. 10
	12(d)	Describe analytical methods accounting for sampling strategy	p. 7
	12(e)	Describe sensitivity analyses	Not applicable
<b>Results</b>	13(a)	Report numbers of individuals at each stage	p. 11
	13(b)	Give reasons for non-participation	Not applicable
	13(c)	Consider use of a flow diagram	Not applicable
	14(a)	Give characteristics of study participants	p. 11
	14(b)	Indicate number of participants with missing data	p. 10
	15	Report outcome events or summary measures	pp. 11–12

	16(a)	Give unadjusted estimates and precision	pp. 11–12; Table 1
	16(b)	Report category boundaries when continuous variables categorized	p. 8
	16(c)	Translate estimates of relative risk into absolute risk	Not applicable
	17	Report other analyses	Table 2; Figures 1–2
<b>Discussion</b>	18	Summarize key results with reference to objectives	pp. 14–15
	19	Discuss limitations	pp. 16–17
	20	Provide cautious overall interpretation	pp. 14–18
	21	Discuss generalisability	p. 17
<b>Other information</b>	22	Give the source of funding and role of funders	Declarations (Funding)