ABSTRACT

Beyond Facility Availability: Hygiene and Sanitation Gaps in a Primary School in Samarinda, Indonesia

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School hygiene and sanitation assessments need to consider facility functionality and essential supplies alongside infrastructure availability. Identifying these gaps can inform practical improvements toward healthier learning environments.

To assess hygiene and environmental sanitation conditions and identify priority improvement needs in a primary school in Samarinda

A descriptive observational assessment was conducted at one primary school. Direct visual inspection used a 29 item checklist covering toilet sanitation, handwashing hygiene, solid waste management, and the physical school environment. Findings were summarized using counts and proportions of positive checklist items.

Overall, 25 of 29 items (86.2%) were positive. Domain proportions were 90.0% for toilet sanitation, 66.7% for handwashing hygiene, 83.3% for solid waste management, and 100% for the visually assessed physical environment. Handwashing facilities were functional and supplied with water, but soap and visible hygiene reminders were absent. Staff shared toilets with students, and waste separation was not implemented. Classroom waste was collected by cleaning personnel and transferred to a temporary collection trolley. he findings reveal a gap between infrastructure availability and the provision of essential hygiene supplies. A high overall checklist proportion can obscure critical deficiencies, particularly soap availability. Improvement efforts should therefore prioritize routine supply checks, hygiene promotion, and waste-management practices. Findings represent a single school snapshot; checklist proportions do not establish regulatory compliance or demonstrate effects on student health or behavior.

Handwashing hygiene was the main improvement priority. Consistent soap provision, hygiene reminders, waste separation, and periodic facility monitoring are recommended, alongside reviewing the adequacy and privacy of shared to

Keyword : school sanitation; handwashing; hygiene; environmental health; primary school.