ABSTRACT

Inpatient Service Utilization at Aji Muhammad Salehuddin II Hospital

Chiesa Safira Yoviana Hefny, Ratno Adrianto

Correspondence E-mail : hefnychiesa32@gmail.com

Background : Inpatient bed utilization is a key indicator of hospital efficiency, and RSUD Aji Muhammad Salehuddin II faces a gap between its approved and operational bed capacity. Prior Indonesian studies largely examined efficiency indicators in isolation, without integrating loss bed-days, economic-loss estimation, and human resource readiness.

Objective : This study analyzed inpatient utilization using Bed Occupancy Rate (BOR), Average Length of Stay (ALOS), Bed Turn Over (BTO), and Turn Over Interval (TOI), estimated loss bed-days and their economic value, and assessed nursing readiness.

Research Methods/ Implementation Methods : This retrospective descriptive quantitative study used secondary data from daily inpatient census, Minimum Service Standard, and staffing reports of the General Inpatient Unit at RSUD Aji Muhammad Salehuddin II (January–December 2025), with Quarter I 2026 data for trend comparison.

Results : With 28 approved beds, only 20 were operational. In 2025, 448 patients were recorded, with an ALOS of 3 days, BOR of 18.41%, BTO of 22.4 times per year, and TOI of 13.29 days, none meeting Ministry of Health standards. Loss bed-days reached 5,956 (81.59% of capacity), an estimated revenue loss of IDR 2,978,000,000. Nurse-to-patient ratio at full capacity reached 1:6.67 per shift. Quarter I 2026 recorded 252 patients (BOR 42%).

Conclusion/Lesson Learned : Inpatient utilization in 2025 was inefficient across all indicators. The early-2026 rise in visits signals growing demand that should be matched by phased strengthening of nursing staff, infrastructure, and referral networks.

Keyword : Inpatient; Occupancy; Efficiency; Loss Bed Days; ALOS

5th MICTOPH
Mulawarman International Conference on Tropical Public Health