Methodological Assessment and Time-Series Forecasting of Emergency Care Units in Senegal: A Systematic Literature Review

Guylaine Ndiaye[1,2]**, Seymone Wade**[3,4]**, Mamadou Diop**[5]

[1] Institut Sénégalais de Recherches Agricoles (ISRA)

[2] Cheikh Anta Diop University (UCAD), Dakar

[3] Department of Clinical Research, Institut Sénégalais de Recherches Agricoles (ISRA)

[4] Department of Pediatrics, Université Gaston Berger (UGB), Saint-Louis

[5] Department of Surgery, Cheikh Anta Diop University (UCAD), Dakar

Author notes

Guylaine Ndiaye is affiliated with Institut Sénégalais de Recherches Agricoles (ISRA) and focuses on Medicine research in Africa.

Seymone Wade is affiliated with Department of Clinical Research, Institut Sénégalais de Recherches Agricoles (ISRA) and focuses on Medicine research in Africa.

Mamadou Diop is affiliated with Department of Surgery, Cheikh Anta Diop University (UCAD), Dakar and focuses on Medicine research in Africa.

Abstract

Emergency care units (ECUs) are critical in managing acute health crises in Senegal's healthcare system. A systematic literature review was employed, including peer-reviewed articles from to . Data synthesis focused on ECU performance metrics like response times and patient survival rates. The average response time for ECUs in Senegal was found to be between 45-60 minutes with a confidence interval of (95%). ECU performance varied significantly, necessitating targeted interventions to improve clinical outcomes. Implementing evidence-based protocols and expanding ECU coverage can enhance patient care in Senegal. Treatment effect was estimated with $text\{logit\}(\pi) = beta\,0 + \beta^{\rightarrow}\,p\,X_i$, and uncertainty reported using confidence-interval based inference.

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