



Economic Evaluation of Integrated Approaches for Early Detection and Treatment of Hepatitis E in Cameroonian Villages

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Abstract

Hepatitis E is a significant health issue in Cameroon villages, where early detection and treatment are crucial for preventing severe liver damage. The study employed a cost-effectiveness analysis using a Markov model to assess the long-term financial impact of these interventions on village healthcare systems. A proportionate reduction in hospitalization costs due to early detection was observed, with an estimated

50 per capita $\frac{\text{savings}}{\text{five}}$ years under optimal implementation. The integrated approach demonstrated cost – effectiveness

$\text{logit}(\pi) = \beta_0 + \beta_1 X_i$, and uncertainty reported using confidence-interval based inference.

Keywords: *Hepatitis E, Cameroonian Villages, Economic Evaluation, Cost-Effectiveness Analysis, Integrated Approaches, Early Detection, Treatment Strategies*

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