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Research Summary

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Category (clinical/public health):	Both
Data focus:	SHEFA

Title Electronic Data Registry to help inform the Emergency Department on Key Performance Indicators

Abstract

Introduction: Key Performance Indicators are essential in improving patient care, in assessing patient safety and satisfaction by providing objective information on crucial aspects of treating patients including time to triage, time to admission, length of stay in the Emergency Department and acuity of patients seen in the Department. Up until January 2021, these aspects of patient care were not being captured. However, in 2021 a new electronic registry system was implemented in Vila Central Emergency Department to help improve patient and staff satisfaction, patient safety and provide objective measurements of the success of Vila Emergency Department

Methods: In 2021 an electronic data registry was implemented in which patient information including demographics, presenting complaint, timeline of stay in the Emergency Department, diagnosis and interventions performed. It also provided data on Health surveillance including communicable, non-communicable diseases and research conditions. Data was populated by month to provide a snapshot of the patient population presenting to the Emergency Department. It is our aim that this data will be loaded up in real time to provide contemporary data which can be obtained and utilised by health professions to make important health care decisions.

Results: Retrospective analysis of the data registry has provided key information which we have been able to use to improve data surveillance, monitor important public health conditions, improve patient safety, and implement innovative treatment models and identify gaps in our health care delivery. By the end of our retrospective analysis of the data we aim to identify crucial health trends amongst the Vanuatu population presenting to the Emergency Department at Vila Central Hospital.

Discussion: The electronic data registry is the first of its kind in Vanuatu Emergency Departments which allows us to improve the delivery of health care to patients, identify important trends in public health conditions, evaluate our effectiveness and enable us to compare our standards to global emergency departments using objective measurements