

An Epidemiologic Analysis of Nanyuki Teaching and Referral Hospital

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Background:

- Emergency Medicine is under-developed in Kenya
- *Goal:* assess the burden of acute and sub-acute disease presenting to a County Referral Hospital
- *Primary aim:* Describe patient presentations and emergency care delivery in the Emergency Department at Nanyuki Teaching and Referral Hospital

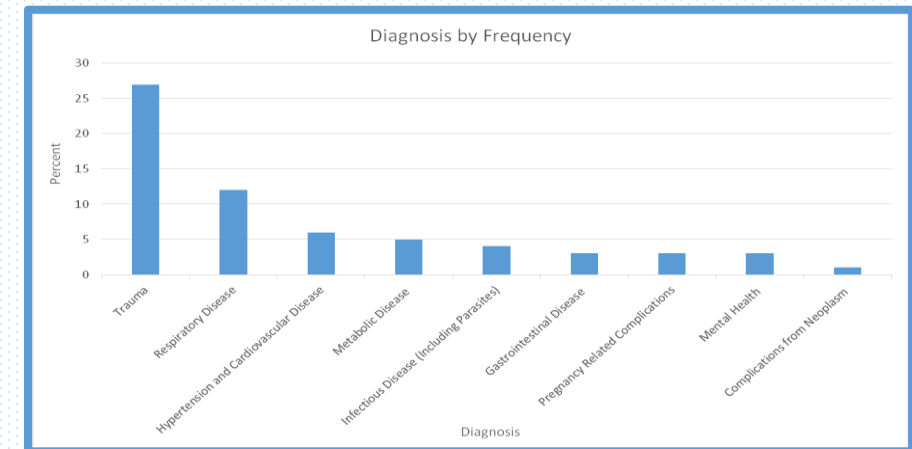
Methods:

- Cross-sectional chart audit of three months of patients presenting to the Emergency Department
- Records accessed via a paper record in the Emergency Department, Electronic Medical Record in the Outpatient Clinic, and through archived paper records
- Trained research assistants entered data into a secure database (RedCap)
- Variables: medical record number, date and time of triage, age, sex, vital signs, chief complaint, triage category, referral source, presence of trauma, final diagnosis (up to three), and disposition
- Diagnoses were matched to ICD-10 coding, utilizing a condensed clinical classification software (CCS) schema. Descriptive Statistics were used to summarize data by utilizing the STATA program



Results:

- Approximately 1,700 ED visits
- Mean age: 25.8 yrs (SD 21.6 yrs)
- 50% female patients
- Majority from Laikipia County, catchment area includes approximately 15 counties in Kenya
- 80 % of ED patient's discharged



Conclusions:

- The Nanyuki Teaching and Referral Hospital in Laikipia County, Kenya sees a large number of undifferentiated patients from a wide catchment area
- Trauma is a common presentation at the County Level
- This profile of patients and presentations may be used as a model by Laikipia County, the Government of Kenya, and strategic partners as work is continued to build and expand the Emergency Medical System in the region

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