

The untold plight of mental health and substance use in African Emergency Department populations: a cross-sectional study at East Africa's largest public hospital.

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Background

According to the 2017 Global Burden of Disease study, in Kenya, NCDs are among the leading causes of death, and depressive disorders rank 4th for morbidity. This is the first study assessing burden of NCDs and depression in the ED setting in

this region.

Study Objectives

- To assess burden of NCDs including hypertension, diabetes and mental health (depression) in Kenyan Casualty Department patients.
- To assess lifestyle risk factors contributing to NCDs in Kenyan Casualty Department patients.
- To provide knowledge to inform development of hospital protocols/ clinical policies, educational interventions for practitioners on management of depression, substance use and NCDs in the emergency setting.

Methods

- Cross-sectional pilot study, at the Kenyatta National Hospital ED, the largest public hospital in Kenya and in East Africa.
- Target sample size was 10% of the estimated total number of presentations.
- Inclusion criteria: 18-69 years old willing and able to provide consent
- Exclusion criteria: Unable or unwilling to provide consent (including due to illness or mental health crisis).
- The WHO Stepwise approach to Surveillance (STEPS) and Patient Health Questionnaire (PHQ-9) tools were used.

Sample Size PHQ- 9

Modera to Seve Severe Depress

Tobacco

Ever used tobac Current tobacco (At least once e

Alcohol

Ever consumed Current alcohol

Description

Older age ass score of seven Having less th associated with compared to above).

Suicidal ideation divorced/wide compared to a PHQ-9 score of having used to

Having suicid everyday" ass tobacco (as co ideation).

PHQ-9 score of daily drinkers.

| Results | | |
|---|--------------------------------|----------------------------|
| | 734 (79.5% | |
| | | |
| ere Depression sion | 298 (40.6 %) | |
| | 74 (10.1 %) | |
| | | |
| acco? co use? every week) | 272 (37.3 %) 123 (16.8 %) | |
| | | |
| d alcohol? ol use? | 451 (61.5 %) 425 (58.0 %) | |
| | | Odds Ratio, 95% Cl |
| sociated with a PHQ-9 ere. | | OR 1.0, (95% CI 1.0-1.1). |
| han primary education with depression (as secondary education or | | OR 2.4, (95% CI 1.1-5.6). |
| tion associated with being dowed,/ or separated (as singles). | | OR 2.8, (95% CI 1.2-6.6). |
| of severe associated with tobacco. | | OR 1.85, (95% CI 1.0-3.3) |
| dal ideation "nearly sociated with ever using compared to no suicidal | | OR 3.7, (95% CI 1.3-11.0), |
| of severe associated with s. | | OR 9.0 (95% CI 2.3-35.3) |



Conclusions A high burden of NCDs exists among patients in the Casualty Department, including leading cancer risk factors tobacco and alcohol A high burden of depression in the ED population, and one that is comparable to or supersedes that of the general population. Treatment targeting NCD risk factors, depression and substance use in Casualty Department patients is minimal **Future Directions** Development of educational interventions on mental health and substance use targeting A&E patients. Development of clinical protocols/ guidelines targeting NCDs and NCD risk factors in Kenyan A&E patients (patient, staff) Efforts to reduce the burden of substance use and depression among those with NCD's should include care plans that implement screening and treatment for both. References 1. Alwan A, MacLean DR, Riley LM, d'Espaignet ET, Mathers CD, Stevens GA, et al. Monitoring and surveillance of chronic non-communicable diseases: progress and capacity in high-burden countries. The Lancet 2010; 376(9755):1861-1868. 2. Matheka DM, Nderitu J, Vedanthan R, Demaio AR, Murgor M, Kajana K, et al. Young professionals for health development: the Kenyan experience in combating non-communicable diseases. Global Health Action [Internet]. 2013;6:10.3402/gha.v6i0.22461. http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3837302/ 3. Moeti M. Noncommunicable diseases: an overview of Africa's new silent killers. WHO African Health Monitor 2008; 8:2-5. 4. WHO | Global status report on noncommunicable diseases 2010 [Internet]. [cited 2014 Nov 20]. Available from: http://www.who.int/nmh/publications/ncd_report2010/en/

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