

Interpretation: Elevated body temperatures in asymptomatic infants less than 3 mo of age are common in high environmental temperatures. Further studies are needed to determine the clinical implications on this finding.

Source of Funding: None.

Abstract #: 1.019_INF

Knowledge and Perception of Self Medication by the People in Mbarara Municipality

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Background: Self Medication (SM) is one of the key factors contributing to Antibiotic resistance. In 2012, the prevalence of antimicrobial SM in developing countries was 38.8%. A study done in 2014 showed that 75.7% of the people in Northern Uganda practice SM. WHO recommends both dispensing and using of antibiotics only when prescribed by a certified health professional.

Methods: This cross sectional study was conducted among adults aged 18 years and above attending any of the four randomly selected community Pharmacies for antibiotics in Mbarara Municipality in May, 2015. Participants were interviewed using an interviewer-administered questionnaire. Data was collected on socio-demographic characteristics, knowledge on SM, presenting symptoms and reasons for SM. Data was analysed by computing frequencies, percentages for variables, and running descriptive statistics on all variables. Ethical approval was sought from the Faculty research and ethics committee of Mbarara University of Science and Technology.

Findings: The mean age of the 104 participants was 32.4 years, 48 males and 56 females. 87 (83.6%) had no prescriptions, 76 (73.1%) had ever participated in SM, 18 (17.3%) never had SM and 2 (1.9%) were not sure. The majority, (57.2%) reported to have at least some knowledge about SM. There were significant relationships among the knowledge about drug, level of education, severity of illness and income with SM. The commonly self-medicated antibiotics were Amoxicillin (47.7%) and Metronidazole (30.5) and Cotrimoxazole (11.1%). Majority of the participants (79.2%) did not know the phenomena of potential for anti-biotic resistance with SM. They also perceived SM as being more beneficial as compared to the risks.

Interpretation: Many people have insufficient knowledge about SM, especially the risks. Massive sensitization should be done by the Ministry of health and community pharmacies should be involved in this campaign. National Drug Authority should enforce strict laws on drug outlets in such a way that antibiotics are not dispensed without prescription. Cost effective drugs should be made available in public health facilities and be accessible by the patients.

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Age of Menopause and Menopausal Symptoms in HIV Infected Women

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Program/Project Purpose: Of the 37 million persons living with HIV globally, 52% are women. Combination antiretroviral therapy (cART) has resulted in reductions in HIV-associated morbidity and mortality dramatically improving life expectancy. Most HIV infections occur early in reproductive life with the potential to impact reproductive health and aging. For women with HIV this infection appears to accelerate menopause, leading to adverse hypoestrogenic consequences.

Structure/Method/Design: A PubMed review of articles and web reports were conducted on menopause and health implications in HIV infected women.

Outcome & Evaluation: Age of natural menopause is determined by demographic (education, race, ethnicity), reproductive (parity, OC use, fibroids), familial, genetic and lifestyle factors (physical activity, weight, diet). Improper treatment of HIV, especially among Ugandan women, also affects age of natural menopause. Menopause among non-HIV-infected white, Hispanic women is on the average 51 years, and that of African American women is 49 years while mean age of menopause in HIV-infected women is 47–48 years. Various hypotheses exist to explain this difference and include the following: 1) viral influence on HPG axis, 2) immune dysregulation as sequela of viral infection 3) Adverse effects of cART and 4) persistent inflammatory state associated with chronic HIV affecting the neuroendocrine axis. Modifiable risk factors such as smoking, nulliparity and low BMI are also associated with lower age of menopause and are commonly reported in women living with HIV (WLHIV). In the general population older age at menopause confers health benefits as a result of protective functions of estrogen. The repercussions of early age of menopause in the HIV infected population are clinically important; this persistent state of hypoestrogenism subsequently confers increased risk for cardiovascular diseases, osteoporosis, infertility, and psychosocial impairment.

Going Forward: Menopausal sequela in the HIV infected population often go unrecognized by both healthcare providers and women themselves. Increased health risks secondary to premature menopause can have a tremendous effect on the health of this population in addition to the greater health care system. Focus on identifying those with premature menopause within the HIV infected population with an attempt to mitigate associated health risks should be incorporated into routine HIV care.

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Perceived Cost Advantages and Disadvantages of Purchasing HIV Self-Testing Kits among Urban Tanzanian Men: An Inductive Content Analysis

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Background: Impoverished men have lower rates of facility-based HIV counseling and testing and higher unknown HIV-positive status than women. Economic theory suggests that rational individuals will test for HIV if the expected benefits are greater than the expected costs. Yet, few studies have investigated the range of financial incentives and disincentives of self-collecting and self-performing specimen-based HIV tests among poor men who decline or do not frequent HIV testing in health facilities.

Methods: Twenty-four in-depth interviews were conducted to qualitatively assess perceived costs saved and costs incurred from use of HIV self-test (HIVST) kits among infrequent and never HIV-tested urban men in Dar es Salaam, Tanzania. To ensure familiarity with HIVST, all men were shown an HIVST video and a rapid oral fluid self-test. Participating men were then asked what were the costs associated with HIV testing in general, what were the perceived financial benefits and concerns of HIVST, and what they were willing to pay for HIVST. All interviews were audio-recorded. Data were translated, coded, and analyzed using inductive content analyses.

Findings: Perceived cost advantages were reduction in money lost to test at facilities, omission of fees for follow-up visits, affordability relative to private clinics, and increased time for earning and other activities. Men also discussed the imbalance of the financial benefit of accessing free HIV testing at public health facilities with the resources spent for transport, meals purchased away from home, and long wait times in line. Perceived cost disadvantages of HIVST were prohibitive initial and cumulative kit costs, required prior savings to purchase kits, effects of ill-omened expenditures; and preference for free provider-performed tests. Men also expressed concerns regarding the psychological costs of inaccurate HIVST results. Reported price ranges for HIVST that men were willing and/or able to pay varied considerably.

Interpretation: Acceptable cost structures, such as low fees, financial incentives, or subsidies, may be needed to overcome barriers preventing some men from learning their HIV status. Enhancing the perceived cost advantages of HIVST may mean that HIVST is an affordable and more readily-used option for impoverished men who infrequent or decline facility-based HIV counseling and testing.

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Uncontrolled Hypertension amongst People Living with HIV on Antiretroviral Therapy at an Urban HIV Clinic in Swaziland

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Background: In sub-Saharan Africa, the burden of cardiovascular disease (CVD) amongst people living with HIV (PLWH) is rising, due to the increasing prevalence of CVD risk factors (CVDRF) such as hypertension (HTN). We explored CVDRF prevalence amongst PLWH on antiretroviral therapy (ART) at an urban hospital in Swaziland. This analysis focuses on the subset of patients found to have stage 3 HTN (hypertensive emergency) on their initial screening.

Methods: A convenience sample of PLWH > 40 years on ART were screened for CVDRF, including HTN. Trained clinic staff measured BP using calibrated electronic BP monitors. Two sitting BP measurements were made, with five minutes' rest before each one. Patients with Stage 3 HTN (systolic BP > 180 mmHg and/or a diastolic BP > 110 mmHg) were referred to the emergency or outpatient departments for immediate clinical management. We subsequently conducted medical records review using a structured abstraction tool to assess demographic information (age, sex), HIV status (CD4 count, ART regimen), weight, height, and HTN management subsequent to the initial screening visit. Data were entered into an EXCEL database, which was used to analyze descriptive statistics.

Findings: 1,826 patients were screened for CVDRF between September 2015 and July 2016. Of the 407 patients (22%) with high BP, 24 had Stage 3 HTN with a median systolic BP of 189.5 mmHg (range 164–232) and median diastolic BP of 110 mmHg (range 87–141). 15 of the patients were not on BP medication at the time of screening; medication was subsequently initiated for 14 patients by August 2016. Antihypertensive regimens were changed for 69 patients who were on BP medications at the time of screening. By August 2016, BP had improved for 18 patients (75%) and was controlled for 4 patients (16.5%).

Interpretation: 1.3% of patients screened had Stage 3 HTN. Despite being engaged in ongoing chronic care for their HIV, less than half had previously been diagnosed with HTN. During the study period, BP control was only achieved for 4 patients (16.5%). This suggests that efforts to strengthen the diagnosis and management of HTN in this setting are needed.

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A Typhoid Epidemic in Rural Malawi: Real-world Challenges

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Program/Project Purpose: Typhoid fever is a major global health problem, with an estimated 22 million cases and 269,000 deaths annually. Caused by *Salmonella enterica* serovar Typhi it is transmitted via the faecal-oral route and is associated with poverty and