



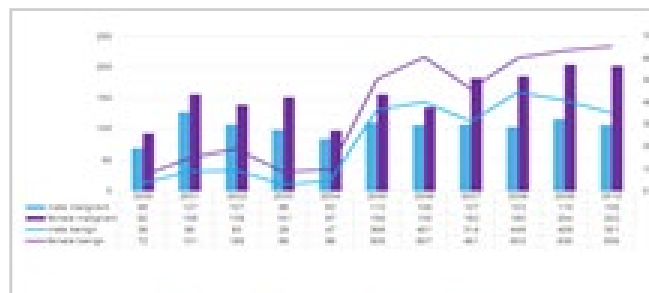
## Trends in Incidence of Cancer in Eritrean Hospitals and Eritrean National Health Laboratory 2000-2010

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### Abstract

Eritrea is one of the developing countries located in the Eastern Sub Saharan Africa. Eritrea is experiencing a growing cancer problem, but little is presently known on tumor patterns, cancer epidemiology and ethnic or environmental cancer risk factors. A retrospective study was carried out on the cancer incidence in hospitals of Eritrea and Eritrean National Health Laboratory (ENHL) from 2000 to 2010 using data recorded from the Management Information System (MIS) in ENHL that recorded all cancer cases from across the country. The main objectives of this study were to review the current status of knowledge, summarizing local data, as well as to provide the first baseline data on the cancer incidence in Eritrea. This study was carried out retrospectively and quantitatively by collecting, abstracting, analyzing, coding and interpreting of data recorded in MIS at ENHL in the eleven years of study using CanReg5 software. Generally 19,636 numbers of cases were confirmed by cytology and histology recorded at MIS through the year of 2000 to 2010; out of these 9,482 cases were positive for cancer. From the total positive cancer cases, 39.18% were males and 60.82% were females. The age standardized rate for all cancers in Eritrean hospitals and ENHL from 2000 to 2010 both in men and women combined were 20.3 per 100,000. The rate was higher in women 11.2 per 100,000 than men 9.1 per 100,000. In general, it can be concluded from this research that the incidence of cancer in Eritrean hospitals and ENHL were increased annually from 2000 to 2010, especially in females. The trend of the incidence is increasing with age, therefore the gradual aging of the population might increase the number of cancer cases in Eritrea.



Total cancer cases morphologically in both Sexes by Year

### Biography

Hawaz was born, studied and worked in Eritrea, Horn-Africa. He studied BSc. Degree in Clinical Laboratory Science (CLS), and he began his professional career in Sep. 2013; he has worked in this field over six years at different Eritrean Hospitals. He has got enough experience in this field, and ever since he was introduced to undergraduate he developed a passion for the field. These enable the discovery of new biological insights by unraveling biological processes and help to form a comprehensive picture of normal and abnormal cellular activities and how these activities are altered in different disease states. He has good experience and deep understanding of these fields and their application in studies of diseases and other biomedical research. Unfortunately now he is living in Refugee Camp, Ethiopia, to seek for protection, escaped illegally from the indefinite "National service" in Eritrea, and he obtained his refugee status from UNHCR.

### Publications

Fadlelmola et al., Trends in the Incidence of Cancer in Eritrean Hospitals and Eritrean National Health Laboratory 2000-2010; (UK Journal of Pharmaceutical and Biosciences Vol. 4(5), 47-55, 2016)

Weldu et al., Evaluation of Antimicrobial Activities of Sinapis alba and Brassica nigra Leaves; (Pharmaceutical and Biosciences Journal Vol. 7(2), 01-06, 2019)

Prevalence of Brucella in Eritrea, Identification of Species and Assessment of risk factors in humans, Applying Serological and Molecular technique, from Oct 2017 to Nov 2018 (local journal).

ABO Blood Groups and its Association with Malaria Parasitemia in Outpatient Department of General Hospital Dekemhare –Eritrea. (On review for publication)

Knowledge, attitude and practice (KAP) Associated with COVID-19 among Health Workers of Suhul Shire General Hospital North-west Administration zone Tigray region Ethiopia: A cross-Sectional study. (On review for publication)

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