



A MATCHED CASE-CONTROL STUDY TO ASSES THE ASSOCIATION OF CHIKUNGUNYA SEVERITY AMONG BLOOD GROUPS AND OTHER DETERMINANTS IN TESSENEY, GASH BARKA ZONE, ERITREA.

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Abstract:

Objectives: A total of 1074 suspected chikungunya cases were reported in Tesseney Province, Gash Barka region, Eritrea during an outbreak. This study was aimed to assess the possible association of chikungunya severity among ABO blood groups and other potential determinants.

Methods:

A sex-matched and age-matched case-control study was conducted during the outbreak. For each case, one control subject had been selected from the mild Chikungunya cases. Along the same line of argument, a second control subject had also been designated through which neighborhood of cases were analyzed, scrutinized and appeared to scheme of comparison. Time is always the most sacrosanct element in pursuance of any study. According to the temporal calculation, this study was pursued from October 15, 2018 to November 15, 2018. Coming to the methodological dependability, calculating odds ratios (ORs) and conditional (fixed-effect) logistic regression methods were being applied.

Results:

In this outbreak, 137 severe suspected chikungunya cases and 137 mild chikungunya suspected patients and 137 controls free of chikungunya from the neighborhood of cases were analyzed. Non-O individuals compared to those with O blood group indicated as significant with p value of 0.002. Separate blood group comparison among A and O blood group reflected as significant with p value of 0.002. However, there was no significant difference in severity of chikungunya among B, AB and O blood groups with p value of

Conclusions:

Non- O blood groups were found to be at risk more than their counterpart O blood group individuals with severe form of chikungunya disease. By the same token, individuals with chronic disease were more prone to severe form



of the disease in comparison with individuals without chronic disease. Prioritization is

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Biography:

Mr. Samsom Mehari Giliu is proficient Public Health Officer since 2015 hitherto now. Mr. Samsom is Chief Manager of Regional TB/leprosy control program Division of CDC Department, Ministry of Health, Anseba Region, Eritrea. It is good to mention that 42 health facilities expedite their daily activities concerning TB and Leprosy under his supervision. He is responsible for providing training, reporting to the national and conducting seminars, supervisions, advocacy, and creating awareness on TB, Leprosy and HIV/AIDS in Zoba Anseba, which is one of the six Eritrean administrative zones. He is also Member of regional TB, HIV and Diabetic Committee and one of the three members of zonal research committee. He is also a member of regional epidemic response team. He got his B.Sc. in public health from School of public health, Asmara college of health science, Asmara, Eritrea. Mr. Samsom is a young researcher, who have insatiable enthusiasm for research. He has published three articles so far with limited resource.

Publication of speakers:

1. Samsom M Giliu et al, FACTORS ASSOCIATED WITH OBSTETRIC FISTULA AMONG WOMEN ADMITTED TO MENDEFERA NATIONAL FISTULA CENTER, ERITREA:

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