

Chikungunya association with different presentation at tertiary care centre

Abstract

Introduction: Acute viral infection belong to the group of arthropod .Chikungunya fever now a days is spreading worldwide and some recent studies shown the different t features and most clinical features is topic of interest is bony pain, which is the most severe form . Chikungunya fever is going to be the increasing number in the financially and economical burden.

Methodology

Sample size: Total number of total patients was 245 in our study.

Study design: Cohort study, systemically all patients were enrolled.

Inclusion criteria: The age group of 14 years to 69 was enrolled. The symptoms and duration and intensity of fever were systemically classified for the study. Only viral fever patients were included.

Exclusion criteria: The age group less than 13 and more than 70 years were excluded. Fever other than viral not included. Known case of any joint deformity and joint disease were excluded. The patients already using different types of painkillers prior to the disease for any systemic disease were not included.

Data entry: SPSS 22 used for data entry.

Result: A total 245 patients with duration of six month were selected for the study. We enrolled patients within six month period time. Total of patients visiting the hospital of age group of 14 age to 60 plus

Conclusion: Fever of the patients were include both low grade and high grade, Most patient were having no symptoms except fever while rest, 38 patients having diarrhea, and 36 patients having vomiting 24 patients had flu like symptoms, flushing in 18 patients noticed and 18 patients having multiple presentations. The duration of the patients with the symptoms last for one week to three months. Most of them responded and get bettered with first 3 weeks and responded to acetaminophen.

Keywords: Chikungunya, CHIKV, Viral fever, Joint pain

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Sumera Nawaz Qabulio, Muhammad Fahad Zakir, Fasiha Sohail, Ghania Niazi, Muhammad Fahad Zakir

Department of Medicine, Ziauddin University and Hospital, Pakistan

Correspondence: Sumera Nawaz Qabulio, Ziauddin University and Hospital, Karachi, Pakistan

Co-correspondence: Muhammad Fahad Zakir, Ziauddin University and Hospital, Karachi, Pakistan, Email faha_bawani@hotmail.com

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Abbreviations: CHIKV, Chikungunya Virus; VF, viral Fever

Introduction

Acute viral infection belong to the group of anthropode.^{1,2} Chikungunya fever now a days is spreading worldwide and some recent studies shown the different t features and most clinical features is topic of interest is bony pain, which is the most severe form.³⁻⁶ In India the Chikungunya fever is going to be the increasing number in the financially and economical burden.⁷ Dengue and Chikungunya are major worldwide wellbeing worries because of their proceeded with spread and strengthening plague exercises all through a large portion of the tropical and subtropical areas of the world. Consistent flare-ups of dengue have been accounted for all through the majority of the tropical and sub-tropical areas of the world for a very long while⁸⁻¹⁰ while Chikungunya pandemics have accomplished worldwide dispersion inside the previous ten years; yet extensive scale pestilences of dengue fever and Chikungunya fever has just as of late introduced as a developing wonder in Africa.¹¹

Tanzania, the same number of other African nations, is encountering a move in illness transmission designs with respect to febrile irresistible maladies. While the quantity of instances of

intestinal sickness are diminishing in a few nations of sub-Saharan Africa,¹²⁻¹⁵ the quantity of febrile cases because of different causes than jungle fever are still high.¹⁶

Research and methodology

Sample size

Total number of total patients was 245 in our study.

Study design

Cohort study, systemically all patients were enrolled .Two investigators assigned for collection of data.

Inclusion criteria

The age group of 14 years to 69 was enrolled. The symptoms and duration and intensity of fever were systemically classified for the study. The only viral fever patients were included.

Exclusion criteria

The age group less than 13 and more than 70 years were excluded. Fever other than viral not included. Known case of any joint deformity

and joint disease were excluded. The patients already using different types of painkillers prior to the disease for any systemic disease were not included.

Data entry: SPSS 22 used for data entry.

Results

A total 245 patients with duration of six month were selected for the study. We enrolled patients within six month period time. Total of patients visiting the hospital of age group of 14 age to 60 plus .The frequency of patients with age were classified in the (Figures 1-7).

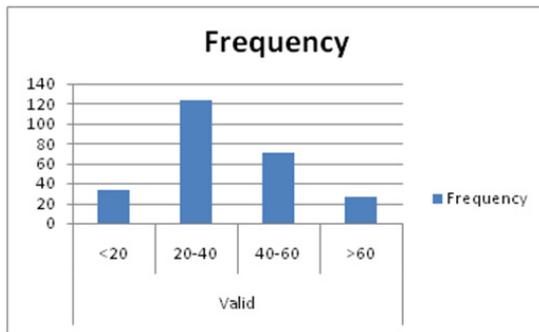


Figure 1 The Frequency of patients with age.

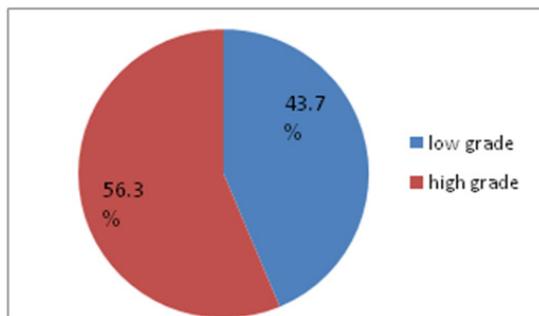


Figure 2 Fever of the patients was including both low grade and high grade .The percentage of the fever almost same that was 56.3 percent of high grade and 43.7 percent having low grade.

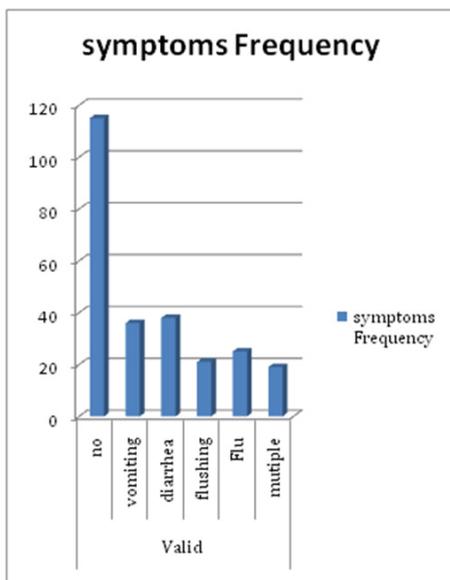


Figure 3 Almost 120 patients were asymptomatic, 38 patients having diarrhea, and 36 patients having vomiting 24 patients having flu like symptoms, flushing in 18 patients and 18 patients having more multiple presentations.

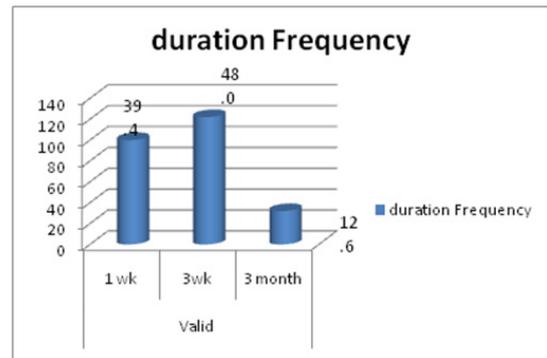


Figure 4 The duration of the patients with the symptoms last for one week to three months. The 39.4 percentage for 1 week duration, 3 week last for around 48.0 percent of patients and 12.6 percent of patients last for 3 months.

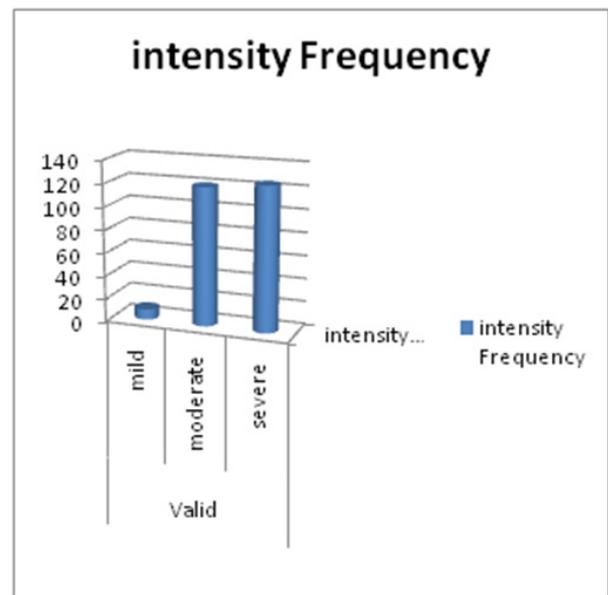


Figure 5 MILD: The symptoms were divided according to the severity mild intensity was around ten patients.

Moderate: The symptoms of moderate severity were found in around 110 patients.

Severe: The symptoms of severe intensity were found around 120 patients.

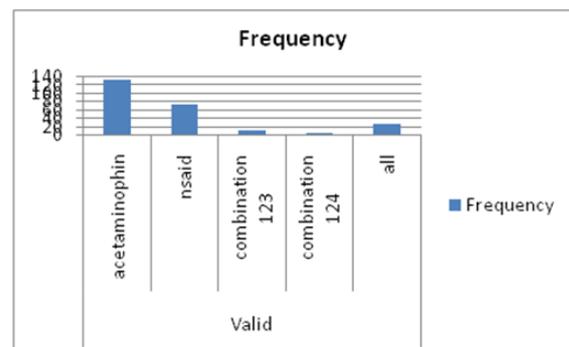


Figure 6 The acetaminophen alone used in 130 patients Nsaid alone used in 78 numbers of patients. Combination of three drugs acetaminophen, Nsaid and DMarts were used in 10 numbers of patients and combination of acetaminophen, Nsaid and DMarts in 5 numbers of patients. The combination of all drugs was used in 140 numbers of patients.

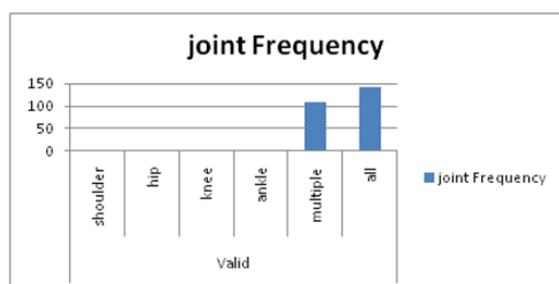


Figure 7

Discussion

Chikungunya fever is an intense febrile sickness with a brooding time of 3-7 days. It influences all age gatherings and both genders similarly, with an assault (rate of people who create sickness after contamination) of 40%-85%. Different arbovirus are no doubt vital and are increasing more unmistakable quality as seen through an expansion in detailed action^{17-20]} and plague action of sicknesses, for example, dengue and Chikungunya.²¹⁻²⁴ Also, intestinal sickness should have been over-analyzed in various parts of Tanzania,²⁵⁻²⁷ mostly because of absence of differential pathogen analysis separated from jungle fever,²⁸ including dengue and Chikungunya. Late examinations in Tanzania have uncovered that patients with intense dengue and Chikungunya disease are frequently misdiagnosed and treated with hostile to malarial or anti-microbial.^{29,30} The advancement of medication safe intestinal sickness strains (due to over-recommending of anti malarial.³¹

Patients give sudden onset of high-review fever regularly achieving 102° -105°F, with shaking cools that last 2-3 days. The fever may return for 1-2 days after a febrile time of 4-10 days, subsequently called a “seat back fever. These infections are transmitted between people by the chomp of tainted *Aedes aegypti* mosquitoes; moreover Chikungunya has expanded its geological range by its capacity to contaminate *Aedes albopictus*.^{32,33} Most arbovirus contaminations are asymptomatic,³⁴ however can too cause an expansive range of indications, extending from nonspecific influenza like disorder to extreme confusions.³⁵⁻³⁷

Conclusion

Fever of the patients were include both low grade and high grade, Most patient were having no symptoms except fever while rest, 38 patients having diarrhea, and 36 patients having vomiting 24 patients had flu like symptoms, flushing in 18 patients noticed and 18 patients having multiple presentations. The duration of the patients with the symptoms last for one week to three months. Most of them responded and get bettered with first 3 weeks and responded to acetaminophen.

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Conflicts of Interest

This study is self funded, there were no financial, socially, economically or moral conflict.

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