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ABSTRACT

The current scenario in research for dengue treatment is to investigate the potential of Caricapapaya leaves extract used as a herbal medicine to control or treat the dengue in human being, but the effectiveness of this extract in the treatment of dengue has the conflicting reports. The investigated herbal medicine is used to control the mammoth problem of dengue is the extract of the leaves of the papaya plant, Caricapapaya plant from the family caricaceae could be helped to increase the platelet levels in these patients. This review describes some of the published studies and articles on the topic. The search was done by the authors using Google and the library database and included relevant articles of the last 10 years what is dengue fever and about it, detail pharmacognosy study of papaya, one human study, and possible mechanism of action of papaya leaf extract in dengue.

MATERIALS AND METHODS:

The literature search was carried out by using the most renowned research engines Pub Med, Google and the library database. The keywords used for the literature search included dengue, treatment of dengue, herbal treatment of dengue, dengue papaya leaf extract, dengue Carica papaya and dengue fever. A search in Pub Med was conducted for relevant articles over the last 10 years, from 2008 to 2018. A Google search was done using the same keywords to identify articles that related to alternative treatment of dengue fever. Additionally, we have done with a detailed search in the library database for relevant articles. A total of 20 studies were selected for this review included animal study, case reports, and case series and randomized controlled trials. The studies were published in the years 2008 or recent 2018.

INTRODUCTION:

Dengue fever is an infectious disease which is spread by mosquitoes and caused by any of the four related dengue viruses. This disease was called to be "break-bone" fever because it sometimes causes severe joint and muscle pain that feels like bones are breaking. Health experts were known about dengue fever for more than 200 years.^[1,28,29]

Epidemiology:

Today about 50% of the world's population, live in areas which are endemic for dengue transmission and around 125 countries are endemic for the same^[2]. Globally, around 50–200 million dengue infection, 500,000 episodes of severe dengue, and 20,000 dengue related deaths are reported annually^[3]. The incidence and prevalence of dengue infection are expected to increase in future because of changes in climate, travel, socioeconomic status, trade, and viral characteristics^[3].

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