OPTIMAL MEDICINAL CUPPING POINTS SELECTION FOR ASTHMA DISEASE

Yuhani binti Yusof 1, Mohd Sham bin Mohamad 1, Noraziah Adzhar 1,
Nurfatihah Mohamad Hanafi 1, Marta Elizabeth 1 and Mohd Adhha Ibrahim 2

1 AIMs Research Cluster, Fakulti Sains & Teknologi Industri, Universiti Malaysia PAHANG, Lebuhraya Tun Razak, 26300 Gambang, Kuantan, Pahang Darul Makmur.

2 Pusat Bekam Al-Yakin (L0120161637), Kuantan, Pahang Darul Makmur

Abstract.
Medicinal cupping is a traditional therapy which used by applying a cup on acu-points or cupping points and the pressure inside the cup is reduced so that the skin and superficial muscle layer is drawn into and held in the cup. Since all diseases and pains have their specific area to be cupped, most cupping practitioners usually recognize the cupping points based upon the disease and the patient's complaints. Hence, they will randomly choose the points upon request due to the money constraint. However, there is no mathematical approach on guaranteeing the handy method is optimized. Thus, in this paper, a mathematical model is proposed on finding the optimal number of cupping points for asthma disease via adjacency matrix approach. This mathematical model will further benefit to the biomathematics and medical fields, especially to the industrial cupping practitioners.

Keywords: Medicinal Cupping; Asthma; Adjacency Matrix; Mathematical Modeling