

Study on development of a sensor device to acquire *Tridosha*

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With the modern lifestyles and tight schedules, people have come up with huge changes in food patterns and behaviour through the past decades. As a result, Non-communicable diseases (NCD) like cancers, diabetes and heart diseases are becoming an emerging problem in the society. Modern medicine has come up with different medications like tablets/liquids, inhalers, injections and therapies that emit rays that can be harmful to the human body or may contain side effects. This research is based on the application of technology into the traditional medical approach to make the life better. Designing the pulse detection (nadi) device was the aim of this research to acquire the tridosha. Selection of suitable sensor for pulse detection device is presented in this research paper. Using the Nadi Pareeksha device, waves from the Vata, Pitta and Kapha nadi were taken and analysis of wave's formation was done using computational models and biostatic approaches to come up with the signal's status. The progress of the research is promising and in future the analysed signal diseases' stages will be used for the detection and pre-detection of the disease.

Keywords: Pulse Diagnosis, Ayurveda, Tridosha, Data acquisition