

MIIEx2017

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Intellectual
Exposition

PROGRAMME ABSTRACT

AUTISM

INNOVATION

DESIGN

INVENTION

“Bridging Gaps with Creativity for Future Sustainability”

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“Bridging the Gaps with Creativity for Future Sustainability”

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THE SCOB OINMENT

Izzah Maisarah binti Ibrahim, & Nurul Fatini bt Annuar

SEKOLAH MENENGAH SAINS SEMBRONG

Abstract

An innovation was made in THE SCOB OINTMENT by adding coffee powder with organic substances such as sea cucumber, olive oil and beeswax. Coffee powder contains strong anti-bacteria that can heal and prevent the formation of pus wounds. Sea cucumber oil is proven to treat minor wounds faster and efficiently. While pure olive oil is proven to help lessen scar formation by strengthening the skin collagen structure. Additionally, beeswax provides a film of protection against irritants while still allowing the skin to breathe. A lab test (FTIR) partnership with UTHM is done by comparing THE SCOB OINTMENT with ordinary gamat gel. It shows that THE SCOB OINTMENT contain higher antioxidant with significant amount of phenolic compound which indicates it is more organic compared to other commercial ointment. Thus, we strongly believe that THE SCOB OINTMENT will be able to replace all the harmful chemical ointment in the market.

INTELLIGENT QUAD CANE WITH GPS ALLOCATION FOR TACHYARRHYTHMIA

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Abstract

The aim of this paper is to present the development of an Intelligent Quad Cane with Global Positioning System (GPS) Allocation for Tachyarrhythmia. Heart attack symptoms are vary between individual. Usually, senior citizen or cardiovascular patient is not aware of their heart beat rate. Lack of early warning is the most common reason of the patient die because of heart attack. Thus, this project offers an early warning for cardiovascular patient to the charged person. Furthermore, this project is able to analyze and indicate abnormality in heart rate pulse for the user. Sinus tachycardia and Supraventricular tachycardia was chosen as research subject because these disease is an early complication of the heart attack. The uses of Global System for Mobile (GSM) and GPS modules in this project can make the charged person receives the notification from the patient via Short Message Service (SMS) which contains the exact location together with patient's condition. This condition shortens the time of ambulance to arrive.