

Title: DUPLEX-10: Dental Portable Units equipped with Sensors Technology of Vital Sign Monitor

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DUPLEX-10 (Dental Unit Portable Complex with Tensimeter) is a technology application product that focuses on developing portable dental unit. DUPLEX-10 designed to be more ergonomical and is equipped with vital signs measuring device with infrared sensor technology. This product is created to overcome the problems ofHikari Dental Clinic, in carrying out its services, but they don't have dental units that can be carried everywhere (portable) and they have limited dental medical health workers. The steps in the making of DUPLEX-10 are: survey of pa1rtner needs, product designing, props manufacturing, product testing, evaluation and finishing. After the product had finished, a trial was carried out at Salman Al-Farisi Islamic Kindergarten, Yogyakarta. Modifications to the product include the addition of hydraulic, the use of hard case, thickness and adjustment of dental chair foam, the use of dental lamps, the use of carrying bags, and the addition of vital sign measuring device placed on the dental chair components. The product trial result is increasing of the number of services, reaching up to three to five folds. A routine implementation of DUPLEX-10 for field promotion will multiply the number of services and increase the productivity as well as the income of the research's partner. Keywords: Portable dental unit, ergonomics, vital sign

Biography

Qotru Al-Naday is an Undergraduate student of Dental Hygiene Universitas Gadjah Mada. She is 21 years old and live in Yogyakarta, Indonesia. She have big passion and exelled on a research. She won several categories at national competition by Ristekdikti and become a research assistant. She is the CEO of DUPLEX-10, Dental Unit Portable Complex with Vital Sign.

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