**Journal of Dentomaxillofacial Science**
**Journal homepage : http://jdmfs.org**

**Poster Presentation**

# Series of Selenoid Valve Pneumatic AC 220 volts with Disposable Contra Angle as a Replacement for Micromotor in Preclinic Laboratory (Experimental Study On the Health Ministry of Health Polytechnic Course D-III Department of Dental Nursing Tasikmalaya)

**Hadiyat Miko✉, Cahyo Nugroho, Emma Kamelia, Rudi Triyanto**
Polytechnic of Health
Tasikmalaya, Indonesia

**ABSTRACT INFO**

*Abstract History :*
Received 15 May 2016
Available online 20 June 2016

*Keywords :*
Drill Tools
Skills lab
satisfaction
product

**ABSTRACT**

To report on the essential performance characteristics of disposable air turbine handpiece and on aspect of their convenience and safety for preclinical use. The disposable handpiece is not recommended drilling in oral cavity. We use for student practical in Operative Dentistry at preclinic laboratory. The other side micromotor low speed handpiece used as bur device on the phantom, the problem usually found in preclinik laboratory on practical conservation with the use of micromotor frequent damage to the handpiece (contra angel). Micromotor tend to heat up faster and have a low-speed, so it took a long time to complete the drilling, using the micromotor tend to be less safe because of the power generated from the flow of electricity at any time could damage. The price of micromotor also is quite expensive. The limitations of the budget funds for maintenance, repair and procurement of mikromotor also became a problem.

Based on these problems, the research team made a solution in the form of a replacement tool (substitute) micromotor with the aim to resolve the existing problems as well as creating practices preclinic more effectively and efficiently. The use of a simple drill tool in the form of a series of Pneumatic Valve 220 volt (include electric compressor) and Selenoid Disposible Handpiece Contra-angles as a new innovation in the laboratory of Dental Nursing. Majors preclinik Health Polytechnic Tasikmalaya have been applied for last 3 years and have been able to more efficient cost of procurement tool of 70%. This disposible tool is apparently able to drill up to 20 times preparasicavity.

This research uses descriptive method. Data collection techniques are used through the question form or questionnaire. Population and sample the study is a students collage 2nd years D-III of department of dental nursing Health Polytechnic Tasikmalaya. From the results of research that the majority of students expressed pleased and satisfied. This product is expected to be applied as a solution for preclinical skill lab laboratory.

✉**Corresponding Author:**
Email : drgmiko@yahoo.com
p-ISSN : 25030817; e- ISSN: 25030825
DOI : http://dx.doi.org/10.22208/jdmfs.1.1a.2016.220s-221s