

Dentalion Enables Dental Examination

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An UGM student team has developed a diagnostic tool to enable dentists examine dents. The students are Silva Eliana A. and Ratih Setyawati from Dentistry Faculty, Rido Ahmad Z. and Zakaria A.R. from Industrial Engineering study programme, and Ahmad Zihni (Mechanical Engineering) who developed the dental light-on (Dentalion) tool.

Dentalion is a portable diagnostic tool that combines oral mirror and LED lamps.

“With this tool, oral and dental health experts will find it easier to do examinations anywhere, including in isolated places as opposed to the dental chair used at hospitals which are expensive,” said Silva to journalists on Friday (20/6) at Fortakgama room of UGM.

The working principle of the Dentalion is simple, only by inserting the tool in the metal cartridge that is equipped with LED lamps. When the mirror is placed in the mouth cavity, the light will automatically turn on and the medical expert can start examining the patient.

“The principle is plug and play with the cartridge containing A27 batteries that will last for ten

hours," he said.

Ridho said the tool can also stand the heat up to 127 degrees, thus able to stand sterilisation process.

Up to now, Silva and her four fellow students had developed five Dentalions that have been sold in the market, They also developed Dentalion with anti-condensation mirror, front surface mirror, magnifying mirror as well as double-side mirror.

"Presently, we produce up to 100 units per month. The one that sells well is the Dentalion with anti-condensation mirror," said Ridho.

The regular dentalion is sold at Rp125,000 while the magnifying mirror Rp200,000. Meanwhile, the anti- condensation and front surface cost Rp160,000 and the double-side Rp 230,000.

"Currently, we sell the tools at Soedomo Oral and Dental Hospital only, we sell one package of dental mirror with the LED cartridge," he concluded.

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