

Create Antiparasite Comb, Won Gold Medal in Malaysia

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Muhammad Husni Mubarok (Mesin '15), Riza Aldiansyah Fanani (Mesin '16), Galuh Purnawati (FKH '14), Safa Aisyah (FKH '14), dan Ridha Avicena Ila (FKH '16)

Dogs and cats are animal that is in great demand by the public as pets. However, there are several problems that often arise, that is the ectoparasite infection. This infection can also be transmitted to humans.

Currently, ectoparasite control is done with the use of chemicals (Insecticides). The continuous insecticide use can cause skin rashes, irritation, to poisoning. Another way of dealing with ectoparasites is by removing ectoparasites one by one that is perceived as ineffective.

Five UB students consisting of Muhammad Husni Mubarok (Mechanical Engineering '15), Riza Aldiansyah Fanani (Mechanical Engineering '16), Galuh Purnawati (FKH '14), Safa Aisyah (FKH '14), and Ridha Avicena Ila (FKH '16) offers another solution by creating an antiparasitic comb called LOVE.COM (Low Voltage and Antiparasitic Smart Comb).

This comb uses a low voltage electric shock combined with an antiparasitic spray extract of Neem Tree (*Azadirachta indica*) leaf extract and herbal fragrance liquid, essential oil.

“We use 15 mA (18 V in circuit) electricity that flows on the inside of the comb to eliminate parasites,” said the team leader, Husni.

He also added, in the comb component is also streamed antiparasite herbal material transmitted by a small tube on the inside of the comb. Antiparasite herbs and fragrances will come through the edge holes and controlled by the buttons on the handle.

The use of LOVE.COM can be applied directly to target animals infected with ectoparasites. Under the guidance of drh. Dahliatul Qosimah, M.Kes the research is done by looking at the performance of tools and the effectiveness of the tool in killing ectoparasites.

The synergy of the students of Faculty of Engineering and Veterinary Medicine (FKH) won the gold medal in the

World Young Inventor Exhibition 2018 held at Kuala Lumpur Convention Center, Malaysia on 9-12 May 2018.

“For 3 days following the activity, I have a lot of experience, meet new friends, and also very happy to exchange knowledge with other participants. Hopefully this tool can be realized and can be traded widely in near future,”
Husni hope. (mic/Humas UB)