Research

Associate Professor Dr. Hazrulrizawati produces bone treatment products through deer antlers

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PAYA BESAR, 27 December 2022 – Researcher and lecturer of the Faculty of Industrial Science and Technology (FSTI), Universiti Malaysia Pahang (UMP), Associate Professor Dr. Hazrulrizawati Abd Hamid, 40, has created a product that could be used for bone treatment.

This Kedah-born lady conducted the study by producing a mixture of deer antlers and synthetic polymers.

She said that the use of calcium- and phosphorus-rich deer antlers that are similar to human bones made it a suitable material for use in bone treatment.

“The created product has pore sizes that meet the ideal bone growth range and the presence of bioactive elements increases its stability.

“The powder is encapsulated and users’ testimonials state that it is very good for treating joint-related diseases.

“The idea of this study started through the discussion with D'Paradise regarding research collaboration related to bioactive components in deer antler powder,” she said.



She said that the estimated price of this product is between RM300 and RM350 for a 5 cc scaffold and it is cheaper than existing products on the market with the range of RM380 to RM700 for a 0.5-5.0 cc scaffold.

“Hopefully this study can be expanded to the next stage of in vivo and clinical studies.

“I also hope that this research can help local companies further expand their output by converting unused materials into products of high value.



“I also have plans with health agencies to ensure that this product is safe for human consumption,” he said.

This product won a silver medal at the last ITEX 2021 competition.

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