

## Fish bone waste utilization program for Hydroxyapatite product: a case study of knowledge transfer from a University to coastal communities

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### Abstrak

Fish bone waste has long been used in research laboratories and it is unfortunate that still many communities fail to understand its importance that makes it necessary for the program to transfer knowledge to the community in order to improve its usefulness. The technology of processing fish bone that has been transferred to the community was to utilize the fish bone waste into the various needs of the community. The program is seen as having the capability to improve the community environment and contribute to community development policy, projects and research in social engineering. Fish bone is a form of waste generated from the fish crackers processing industries that contain the highest content of calcium. In terms of food and nutrition, fish bones are rich in calcium, phosphorus and carbonate needed by human. Involvement of the community to use leftover fish bone to produce hydroxyapatite is a way to improve society and reduce pollution. In addition, hydroxyapatite can also be used as a bone replacement implants, heart valves, hip extension and other implants in the human body.