



# Technology to Licence

## Salus

Head Lice Treatment



## Overview

Salus is a brush and conditioner applicator specifically for the treatment of headlice. By minimising the quantity of water required to apply conditioning solution to hair, Salus can be used in resource-scarce environments. Conditioning the hair is an important part of the head lice treatment process.

Along with a simple, rudimentary fine comb, Salus can be used to effectively and efficiently treat head lice without the need for a large quantity of water.

The product consists of 4 individual components. The silicone squeeze cap, the main housing, and two separate sponges, one for water absorption and one that holds concentrated conditioning solution. Following usage, the product can be easily opened in order to avoid bacterial contaminations and to dry the conditioning sponge before subsequent uses.

It was discovered that when the user did not leave the brush out or the brush was left closed, the sponges did not fully dry. This would potentially lead to a build up of bacteria within the brush thus defeating the purpose of promoting better hygiene. To solve this likely issue, a flexible ring system was designed and developed which enables the brush to flex open when not in use.





## Opportunity

The Salus design offers a way to minimise the amount of water required to adequately condition the hair for fine combing to remove lice. The design minimises the environmental impact of head lice removal.

The brush uses 100ml of water to adequately condition the hair instead of the standard water intensive process of washing and then applying conditioning solution on the hair. The Salus design mixes the conditioning solution in the brush, minimising the waste water run off from wetting the hair and improving the distribution of conditioning solution.

TU Dublin is seeking commercial partners to assist in bringing this technology to market.

## Stage of Development

- A prototype demonstrator has been built, tested and executed in order to validate the proof of concept.
- This technology is available for license to interested parties.



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