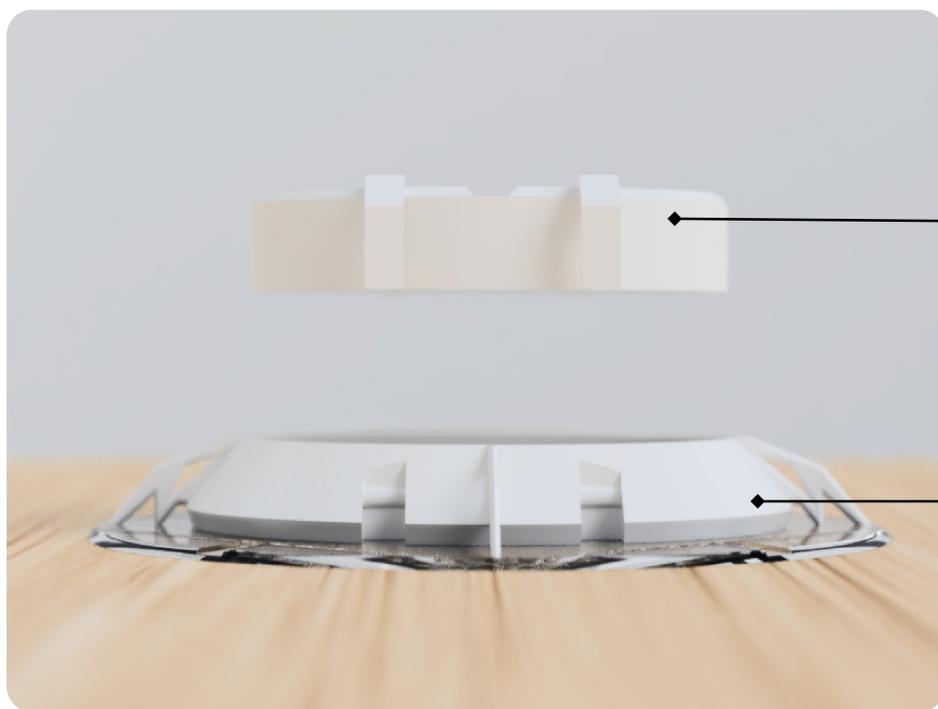


# + Patch.

Solving Tuberculosis through Haptics and 3D Printing

## Problem: Status Quo

Tuberculosis (TB) is a contagious disease that is spread through coughing. With a large part of the world not having financial and geographical access to the proper TB treatment, a more accessible and affordable solution is needed.



## Solution: Patch.

Patch is an all-in-one, simple treatment kit for TB. It is accessible and affordable, allowing more patients to cure themselves of this infectious disease. It uses emerging technologies, such as 3D printing and haptics to achieve this.

## Breakdown

### Module

This is an attachment which will snap on to the main Patch body, containing diagnosis or treatment solutions

### Main Body

The main patch body comprises a mechanism to deliver packet solutions, while using tactile haptic sensors to check for circular bumps during diagnosis

### 1 Diagnostic Process

After receiving the patch package, the patient will first use the diagnostic packet to diagnose for Tuberculosis.

### 2 Test Result

The Module will light up if diagnosed with TB as positive. If negative, wait 72 hours from application and dispose of Patch kit.

### 3 Treatment Process

If diagnostic returns positive, the patient will start using the treatment packets (1 per month) to receive TB treatment for Patch.

### 4 In Case of TB Re-emergence

After 6 months of treatment, if TB symptoms re-emerge, the patient will need to seek additional healthcare support

Traditional

**\$34,000**



Patch.

**\$3,100**