

ziBiPen

The future of anaphylaxis treatment



IMPULSE
rethink medical devices



Context

Anaphylaxis is a severe allergic reaction when a patient is exposed to an antigen to which they have become hyperallergic due to exposure of mast cells in the body, causing inflammation of critical organ systems.

Without immediate treatment, it can lead to patient mortality within 15 minutes.

To increase the probability of patient survival a dose of adrenaline must be administered with the use of an Adrenaline Auto-Injector.



Problem

Current adrenaline auto-injector devices incur continuous annual expenses due to expiration and do not effectively cater to variation in patient weight and body type.



Vision

We want every patient around the world that suffers from anaphylaxis regardless of body types and sizes to have access to a trusted, effective and affordable adrenaline auto-injector pen.



Mission

To develop a trusted, effective and affordable adrenaline autoinjector that ensures that patients regardless of socio-economic status can have access to one.

Features



Reloadability

Sustainability

Activation Mechanism

Energy Retention Mechanism

Adjustable needle penetration depth