Case study - Multivials automated reconstitution and iv injection

Project

Extemporaneous preparation and iv delivery device for homecare

Patient-friendly device enabling quick and easy automatic reconstitution and iv line fill-in

Homecare treatment for chronic hematologic disease

Challenges

- ✓ A 6 kits (1 lyo + 1 diluent) with multivials handling
- ✓ Very sensitive protein to shearing and aggregates
- ✓ Patient specific dosage Adjusted to body weight / Number of vials needed variable
- ✓ 42 manual steps to automatize to prepare the final product
- ✓ To be compatible and connected to **IV** injection
- Homecare: easy to use by a naïve patient



Achievements



User friendly

A fully automated reconstitution and IV injection device of 2 kits of Iyo



Dose adjustment

Soft enabling dose adjustment



Functional prototype within 6 months

Team performance related to productivity



reduction

From 90µL to 45µL/vial Divided by 2 thanks to vial adaptor custom design

Benefits

- Consolidation of US partnership
- ✓ Easy-to-Use device with reduction of steps by 3

