



One device. Four markets. One patent family.

The problem it solves shows up everywhere thick fluid meets a thin needle.

Swipe →

THE PROBLEM



Thick fluid. Thin needle.

Push a viscous drug through a fine needle and three things go wrong: it takes far more force, the doctor loses feel for what's happening at the tip, and any safety check that relies on fluid flowing back simply stops working.

Resistance rises with viscosity — and with the fourth power of how narrow the needle is.

THE PROOF



0% → 100%

Blood-aspiration success through a 29G needle — without, then with a low-viscosity flush.

Six commercial products tested. 1–2 seconds to a clear answer.

Kogan, Korolik, Cartier, Adhoute, Liberzon — Journal of Cosmetic Dermatology, 2020.
Peer-reviewed, published, independent of us.

HOW IT WORKS

Two barrels. One needle. A switch between them.

- 1 One barrel holds the thick payload
- 2 The other holds a thin fluid
- 3 Flush thin fluid, get a clear answer
- 4 Switch and inject — needle never moves



Facial fillers

0%

success rate of the standard safety check through a 29G needle

Where the science was proven. Injecting filler near a blood vessel can cause tissue death and, rarely, blindness — and the check meant to prevent it doesn't work through a fine needle.

Knee osteoarthritis

70–84%

of blind hyaluronic acid knee injections actually reach the joint

Ultrasound guidance reaches 95–96%, but most clinics inject blind. A full course costs the patient \$1,000–2,500 — and a missed dose is a real loss, not a rounding error.

Bone cement

18–55%

cement leakage rate in vertebroplasty and kyphoplasty

Cement must be thin enough to inject and thick enough not to leak. Surgeons manage that trade-off by hand. Leaked cement can reach the lungs in 2–26% of procedures.

Self-injected biologics

#1

'incomplete plunger depression' — the FDA's most common autoinjector use error

Drugs like adalimumab are concentrated on purpose so patients inject less volume. Thicker means more force and more pain — through the same 27-29G needle we already tested.

One patent family. Three separable claims.

FR

Granted

CN

Granted

EU

Advanced

US

Pending

- 01** Verify with a thin fluid when the payload can't give feedback
- 02** Switch between two fluids through one shared outlet
- 03** Purge with a sacrificial fluid instead of wasting the payload

Let's talk.

We're looking for two kinds of people:

Device and drug-delivery companies working on high-viscosity injection

Investors and strategic acquirers who back medtech at the platform stage

Dr. Hertsel Adhoute — Co-founder & CEO

Message us here on LinkedIn.

