

1nfusion

Safe. Accurate. Easy to Use.

Developing the new standard in infusion technology.

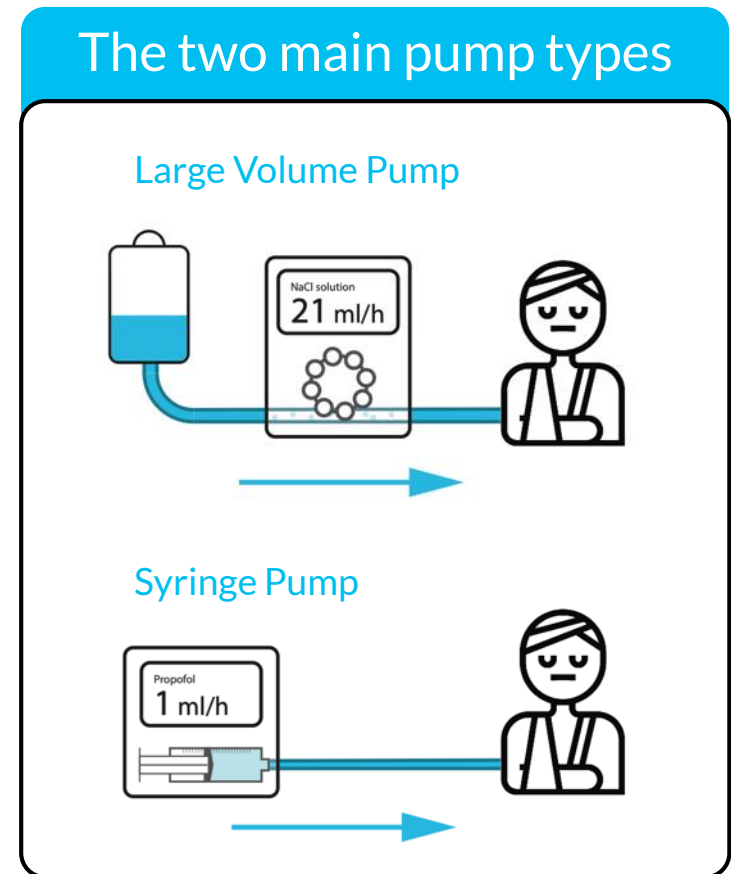
The Basics

Infusion pumps are widely used in hospital settings.

Up to **90%** of hospital patients receive infusion therapy.¹

An **infusion pump** is a medical device that delivers fluids into a patient's body in **controlled amounts**.²

1. Helm et al. The art and science of infusion nursing. 2015 2. FDA



The Problem – Individual Case!

- 6 year old female patient
- Prescribed parenteral nutrition through IV infusion
- Instead of 60 ml/h, the infusion pump delivers 740 ml/h
- “The patient went into cardiorespiratory arrest and died”

Source: FDA incident report, November 1st 2018

Single Case???

Only in USA???

Every
37 min

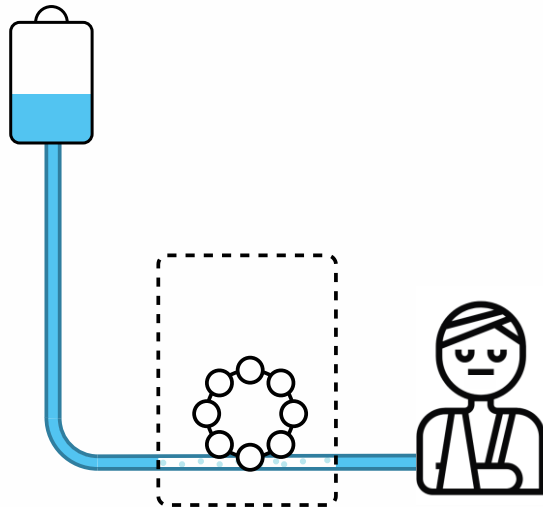
34%

an **infusion pump incident** has been reported to the **FDA** on average over five consecutive reported years

of the reported incidents were **serious injuries**

Source: Giuliano K. 2016: The urgent need for innovation in I.V. infusion devices, Nursing. 2016 Apr; 46(4): 66-68.

Today's infusion pumps **cannot measure** the **actual flow** into the patient's body.



Resulting problems:



Overdosing / Underdosing



Missing alarms / False alarms

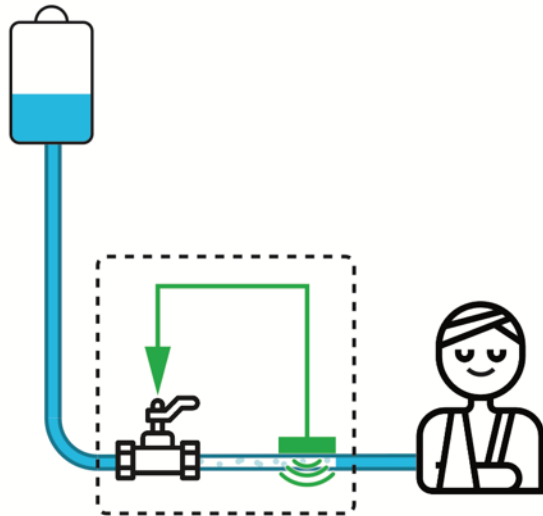


Complex devices



Technical errors

We develop a new generation of infusion pumps that **can measure** the **actual flow** into the patient's body.



Advantages:



Higher patient safety



Accurate, constant fluid delivery



More reliable alarms






Smaller, less complex device



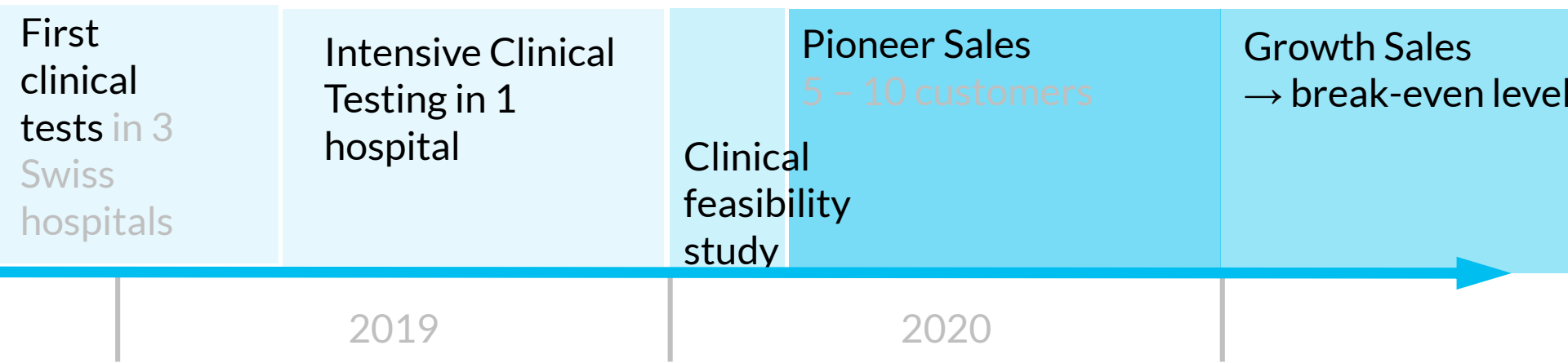
Easier to use

Traction



-  Four patents filed with 15 claim sets
-  External production partner able to build up to 10,000 pcs/year
-  Complete Team for Development, Production, Marketing and Sales

Go To Market



Infusion FlowBox

The first infusion device with direct flow measurement

Compact, powerful team with strong culture



Daniel Thorvaldsen CEO, Co-Founder



Josef M. Thalmann Business Development



Jonas Gartmann CTO, Co-Founder



Flavio Perucchi, Testing and Software Engineer



Martin Batliner Head of R&D



Reto Koch, Chairman



Alexander Duschau-Wicke COO/CQO



Jon H. Hoem, Director



Arno Suter Embedded Software Engineer



Dominic Böni, Director, Co-Founder

Board of Directors

Our ambition

We will solve today's problems in infusion therapy and establish a new standard for intravenous infusion technology.

FlowBox in successful clinical use



“Das ist die Zukunft der Infusionstechnik.”

Beata Antalova, Leiterin Pflege Chirurgie, Spital Wetzikon

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