

# 1nfusion

Safe. Accurate. Easy to Use.

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Developing the new standard in infusion technology.

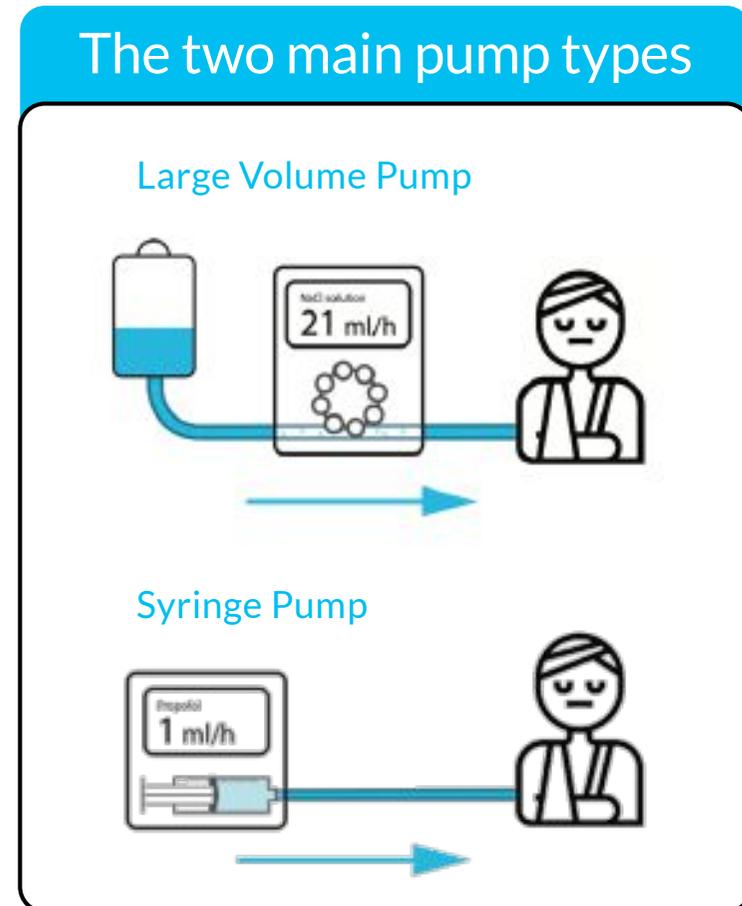
# The Basics

Infusion pumps are widely used in hospital settings.

Up to **90%** of hospital patients receive infusion therapy.<sup>1</sup>

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

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 1<sup>st</sup> 2018

Single Case???

Only in USA???

Every  
37 min

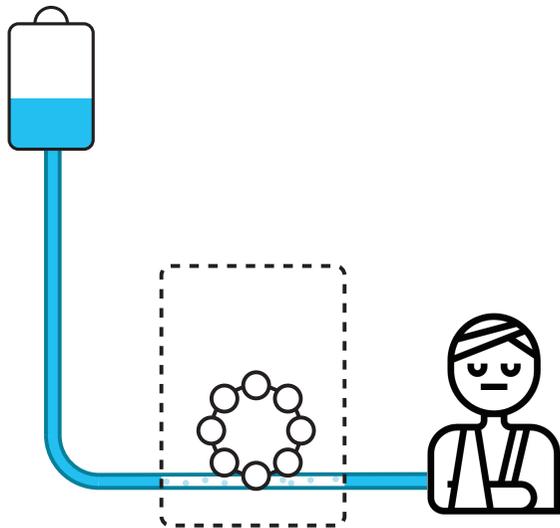
34%

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

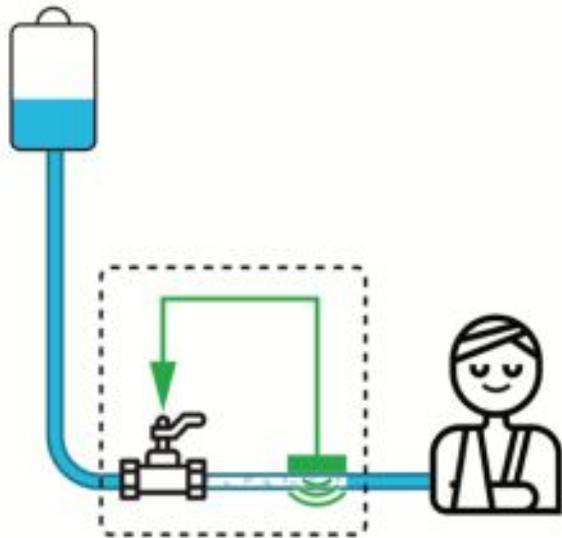


Complex devices



Technical errors

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



**Advantages:**

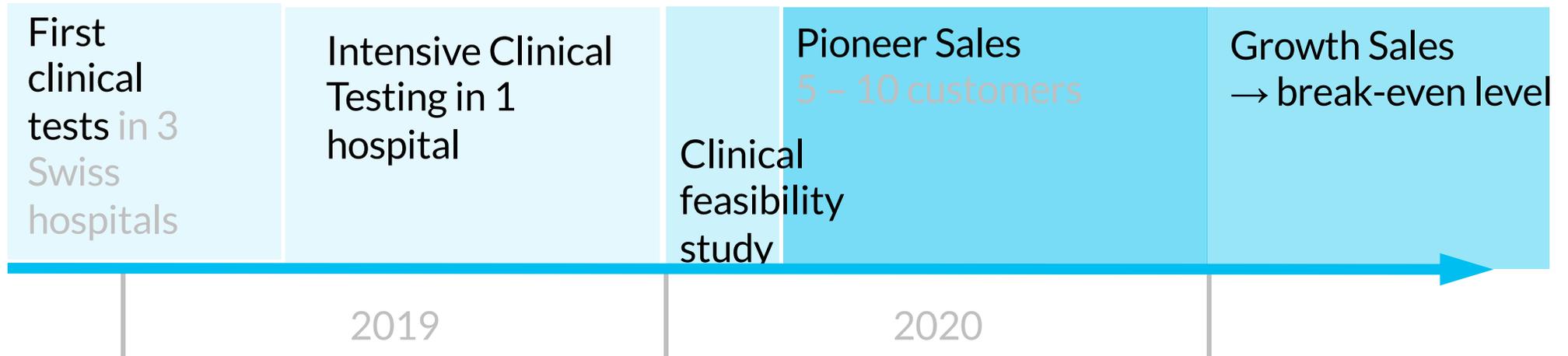
-  Higher patient safety
-  Accurate, constant fluid delivery
-  More reliable alarms
-  Smaller, less complex device
-  Easier to use

# 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



## 1infusion FlowBox

The first infusion device with direct flow measurement

# Compact, powerful team with strong culture



Daniel Thorvaldsen CEO, Co-Founder



Jonas Gartmann CTO, Co-Founder



Martin Batliner Head of R&D



Alexander Duschau-Wicke COO/CQO



Arno Suter Embedded Software Engineer



Josef M. Thalmann Business Development



Flavio Perucchi, Testing and Software Engineer

## Board of Directors



Reto Koch, Chairman



Jon H. Hoem, Director



Dominic Böni, Director, Co-Founder

Sensor Technology – Medical/Regulated Devices – Medical Innovation

# 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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