

D-Flex™ Ecosystem

Data capture and transfer
in clinical trials



D-Flex™ Ecosystem From data to value

The D-Flex™ Ecosystem comprises hardware, software and services enabling data capture in clinical trials. In particular, the system consists of the D-Flex™ injection pen, a digital cap, a mobile app and the Haselmeier™ data platform. The digital cap captures data at the point of care and securely transfers it to the Haselmeier™ data platform. The platform allows controlled and secure access to the different stakeholders.

HARDWARE

D-Flex™ Easy adjustable

The D-Flex™ is a fixed-dose pen system for multiple injections based on 3 ml cartridges. Users can easily adjust the dose to the titration scheme of a given treatment simply by replacing one component. With between 1 and 10 clearly separated, fixed doses in just one pen, the D-Flex™ bridges the gap between fixed and variable-dose pens. This innovative product platform also paves the way for connected commercial devices.

Just one pen for many therapies

Disposable pen for single or multiple fixed dosages

The versatile and flexible solution

Allows for manual, multiple injections with just one pen

Safe to use for patients

Patients cannot set unintended dosage



Low investment cost

Faster product development based on a platform

Perfect for clinical trials

Easy and flexible adaptation to different dose requirements

Network-ready

Allows for connectivity and smart data processing

D-Flex™ Connect The connected solution with a digital cap

Operating with patented, Bluetooth (BLE)-enabled, dose-sensing technology, the digital cap measures the dispensed dose, time and temperature, enabling seamless data collection at the point of care. D-Flex™ Connect is a proven technology that can be adapted to a number of drugs and indications.

A digital cap for the D-Flex™

Works with the D-Flex™ pen system for seamless connectivity

Ready-to-use connectivity

Data collection at the point of care and easy data transfer to any infrastructure

Open for your data management

Data processing and data management on an optional platform



Therapy efficiency

Reminds patients and measures dose, temperature and time

Perfect for clinical trials

Enables data collection at the point of care and compliance monitoring

Supports the decision-making process

Facilitates analysis of insightful data sets and dosage adjustments

Seamless data capture with D-Flex™ Connect

APP AND DATA PLATFORM



The digital cap measures the expelled doses, time and temperature and transfers the data via via Bluetooth Low Energy (BLE) to the mobile app.

Mobile app Data capture at the point of care

Patients can effortlessly replace the existing cap with the new connected cap, enabling seamless data capture at the point of care. Collected data is immediately transferred to the Haselmeier™ data platform via an app. This customizable app can notify patients when they need to take their prescribed medications, manage their appointments with physicians and provide help or training.



Haselmeier™ data platform allows controlled and secure access to the different stakeholders.

Health platform A data-transfer ecosystem

The Haselmeier™ data platform provides data storage within the cloud, in compliance with all regulatory and safety requirements. The platform can then transfer its data to any given existing clinical trial infrastructure (eCRF), minimizing additional IT resources. Advanced analytics, dashboards and CE certification are further customizable options.

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From data to value

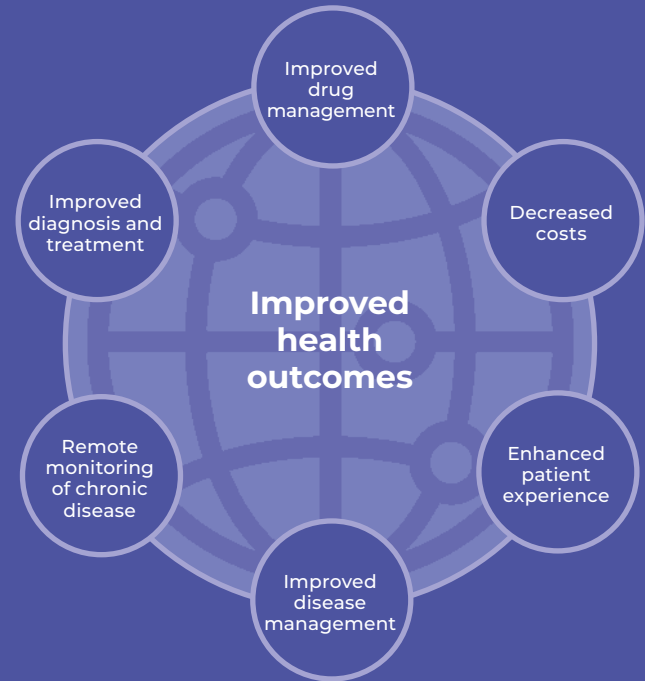
From data to value – adaptive data capture in clinical trials using the D-Flex™ Ecosystem enables real-time monitoring and reduces the time between data collection and analysis.



The benefits of IoMT

Improved health outcomes

Researchers can benefit from clinical trials with digital devices and the Internet of Medical Things (IoMT) thanks to easier data collection and analysis and real-time access to data in the same format.



Customized drug delivery from technology to therapy

Haselmeier, a part of Sulzer AG, has been established in the healthcare marketplace for over 100 years. Starting as a family-owned business with approximately 240 employees, Haselmeier has been pioneering the development of injection pens for subcutaneous application since the 1960s. We continue to drive innovation in self-injection pens from design and manufacturing to packaging and delivery. We have developed solutions in scalable volumes for numerous pharmaceutical partners, always following state-of-the-art engineering practices – and we aim to involve even further.

Let's talk about your customized smart injection pens.

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Haselmeier, a part of Sulzer AG, is active in the medical field. The following content provides general orientation about the products, future developments and potential options to improve medical treatments for a specialist audience. This information is not directed at patients and is not intended to replace counseling by healthcare professionals.