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Saga evaluation With HUS Testbed

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Smarter solutions for fluid collection, disposal and management.

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Rely on the essential in
fluid collection



Serres Suction
Bag System

Creating value
disposal-by-disposal



Serres Nemo

Pioneering
surgical
flows



Serres Saga

Serres Saga

Pioneering
surgical flows

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Background

Previously performed at hospitals in an office environment, or in our office in Espoo with intended users (Operating room nurses):

- Validation of user needs
- Concept/Prototype evaluation with intended users
- Formative usability evaluation
- Summative usability testing
 - Testing risk reduction measures



Problems:

Some questions remained unanswered

- About the use of space, visibility and lightening
- About connection from the operating site
- About cleanability of the device

Are alarm colors visible enough in the ambient lighting conditions in the OR?

Is it possible to position Saga close enough to the patient / surgeon?

Connection of Saga from the operating site with relevant instruments

Cleaning procedures between patients

Are we missing something, are we ready for clinical investigation?

HUS Testbed solution

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Additional evaluation in a **real operating room setting with intended users** but without patient

Scope of the evaluation

- Testing of Saga training procedure
- Usage of Saga in a simulated surgery
- Review of the device for cleanability



Results

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- Training procedure approved by intended users
- Minor problems revealed triggering immediate couple of product changes
e.g. too sensitive suction alarms, too intense lightening, wrong hook shape
- Input for clinical investigation plan
- Input for improvement opportunity
- Confidence in device readiness for clinical use
 - *HUS Testbed evaluation 15.2.2019*
 - *Clinical investigation started 22.3.2020*
 - *Serres Saga received CE certificate 22.8.2019*



Experience with HUS Testbed



- Able to accommodate specific needs and mobilize users based on needed profile (e.g. experience with certain surgical specialty)
- Able to accommodate tight schedule
- Nurses participating in the evaluation very experienced and professional
- Nurses able to reflect more objectively on the device usage when in their normal working environment instead of office environment
- Motivation boost for the development team to see the device in the intended operating room environment



The background of the slide is a photograph of three surgeons in an operating room. They are wearing blue scrubs, surgical masks, and hairnets. They are focused on a task, with one surgeon in the center looking down. The scene is dimly lit, with bright surgical lights visible in the background.

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Working closely with
healthcare professionals, we

Progress together

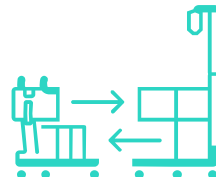
Serres is the progressive leader in smart fluid management solutions

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Focused

on high quality fluid management solutions.



Pioneer

in safe and smart solutions around surgical suction.



Finland

HQ, design & manufacturing.



200

employees.



1973

founded.



Environmental

by being smart across the lifecycle.



Global

distribution network with sales in 50+ countries.



30M€

turnover.