

INTELLIGENT SCREENING →

Using smart application in patient screening for MRI-scans

The need

Currently, the screening of risk information consumes a significant amount of human resources, so that MRI studies can be conducted safely. For example, the medical records in patient record systems are being screened by staff members. Risk assessment includes checking the information systems of several hospitals for possible medical or other foreign bodies and the makes and models of medical foreign bodies. Sometimes records are searched for from the medical records of other hospitals. The patients themselves can also report possible foreign bodies.

Impact

↑ **30k** MRI studies in NOHD yearly
 ↑ **500** implants recognized
 ↓ **2** full time nurses manually checking contraindications

(*) These results come from Regular end-user testing by healthcare professionals during the co-creation at the Oulu University Hospital Testbed

The solution

Neagen's SCS guides medical professionals during the process of planning an MRI study. It gathers information from various integrated information systems, and based on this information, it detects risks and contraindications regarding the planned study. Its guidance is especially important when selecting the correct imaging device prior to scheduling, but can also be relevant after scheduling, in advance of the patient visit and lastly right before imaging. To offer such guidance, the SCS integrates to the radiology production control system, in order to detect and alert about possible contraindications as early as possible in the process.

#HealthAI

#Radiology

#MRI

Co-creation and Business Support

Pilot region: Oulu (Finland) | Period: April 2019- April 2020



Challenger



Solver



Users



Supporter



Funder

Oulu University Hospital

Neagen

Healthcare Professionals

BusinessOulu

Oulu Region Council

4 Nurses
1 MD
1 Quality Manager
2 Innovation experts

1 Senior developer
1 Software developer
1 Product manager

4 Nurses
1 MD
1 Quality Manager
2 Hospital Physicist

2 business supporters

2 experts

Hear the stories!



"We are expecting to speed up the risk screening process and improve patient safety with intelligent screening application."



Kirsi Rannisto, Head Nurse at Oulu University Hospital



The end-user perspective has been crucial in defining the new MRI screening process



Luca Pagani, Product Manager at Neagen

About inDemand

inDemand boosts digital health solutions proposed and co-created with healthcare professionals

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