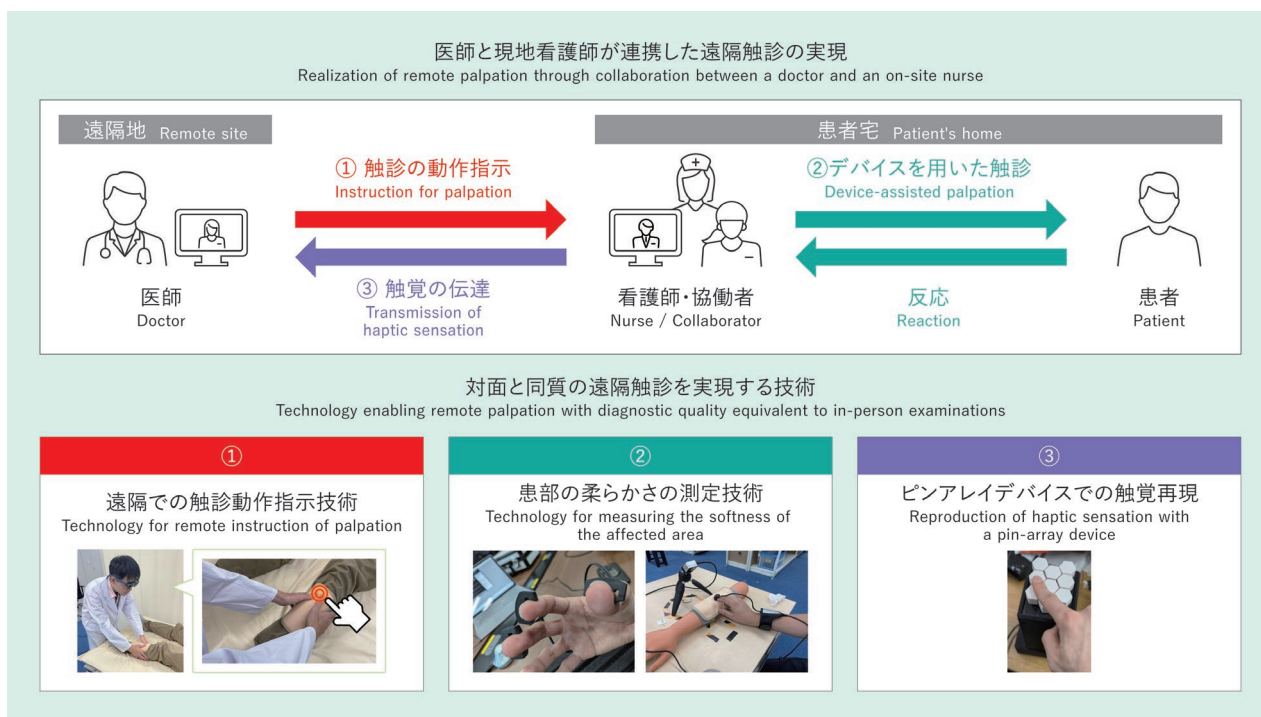


A remote doctor works with an on-site nurse to assess tissue stiffness

Remote palpation with doctor-nurse link

Background and Technical Challenges

The core of remote palpation is the transmission of haptic information, not just video or audio. It also requires methods for conveying a doctor's intent and instructing nurses in proper palpation.



R&D Goals and Outcomes

This technology enables remote palpation of leg edema without in-person contact, improving access to daily medical care.

Key Technologies

01 Core Technologies

- Doctors remotely perceive stiffness via quantitative sensing and reproduction through nurses' hands.
- Nurses receive visual cues for palpation.

02 Key Differentiators

Without requiring teleoperated robots, this method enables quantitative sensing and reproduction of haptic stiffness through the hands of novice nurses, guided by nonverbal cues of the doctor's intent.

Use Cases Healthcare

R&D phase Research

Technology Schedule FY27-29

Commercialization Schedule FY27-29

【Exhibitors】

NTT Human Informatics Laboratories

【Contact】

Cybernetics Laboratory

【Co-exhibitors】

Niigata University (collaborative research)

St. Luke's International University (collaborative research)

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