

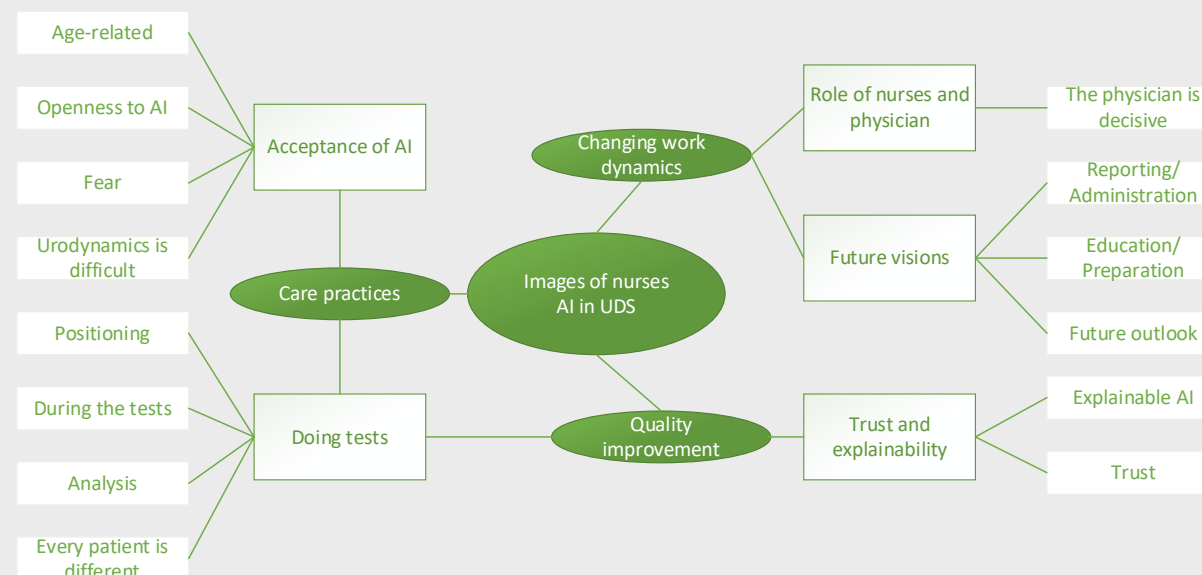
AI and urodynamics: Qualitative research is essential to assess the needs of its users

Hypothesis/aims of the study

Urodynamics (UDS) includes invasive and complex tests with technical challenges, and often needs rigorous quality assessment and training of care providers to avoid misdiagnosis. Artificial intelligence (AI) may help:

1. To improve the trace quality and support UDS quality assessment
2. Urodynamic pattern recognition and correct outcome

However, it is unclear how a desirable and appropriate embedding of AI in UDS will look like in the testing and care practice of involved care providers.



Results

- No fear of losing the job
- AI as assistant with human supervision
- Added value in catheter positioning and pressure measurement control
- Supporting in a changing work environment

Study design

- Two focus groups in two non-academic hospitals
- Twelve nurses involved
- Three themes: future of UDS care practices / expected improvement of UDS testing quality / changing work dynamics

Concluding message

This study may help to support implementation of AI tools in urodynamic testing, and is a step forward towards explainable AI (XAI) in functional urology.

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