Erasmus School of Health Policy & Management

PCR103 AICCELERATE smart hospital care pathway engine

Patients and neurologists' preferences for remote patient monitoring and artificial intelligence to improve Parkinson's disease management.

Authors: Godoy Junior C¹*, Miele F², Mäkitie L³, Bakker LJ¹, Fiorenzato E², Uyl-de Groot C¹, Redekop K¹, van Deen WK¹

1. Erasmus School of Health Policy and Management, Rotterdam, Netherlands

2. University of Padova, Padova, Italy

3. University of Helsinki, Helsinki, Finland

Rationale

- Effective advanced therapies to manage advanced Parkinson's disease (PD) have become available.
- Timely and correct identification of the candidates for advanced therapies remains a challenge.
- Remote monitoring combined with AI algorithms can assist neurologists in this task.
- Limited evidence exists on patients and physicians' preferences for these novel technologies.

Aim

Explore the perspectives of patients and neurologists on the use of AI and remote monitoring for detection of advanced PD.

Methods

Interviews with patients (N=5) and neurologists (N=6), and 6 focus groups with patients (n=21) in Finland and Italy.

Results

Figure 1: Frustrations with current monitoring techniques



Figure 2: Expectations about a future with AI and remote patient monitoring



Better treatment

actual disease stage strategies Topics: disease progression detection, Suboptimal therapeutic disease monitoring and perceptions about **Disease insights** an AI and remote monitoring. choices

Results

Figure 3: Barriers and facilitators for AI enhanced remote patient monitoring in Parkinson's disease



Conclusion

Parkinson's patients and neurologists want to increase their ability to monitor disease progression in a timely fashion, amplifying their control over the condition. Remote monitoring and AI are welcomed for this purpose.

Patients acknowledge trade-offs between potential benefits and undesirable aspects of AI-enhanced remote monitoring. The potential benefits in controlling symptoms or disease progression seem to outweigh most of the inconveniences brought by the technology.

Data from this study will be used to design a discrete choice experiment to assess the trade-offs quantitatively.

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Make it happen.







