

Embedding New Technology In Primary Care To Improve Outcomes For Patients With Dementia - The UKDRI Minder Study In West London



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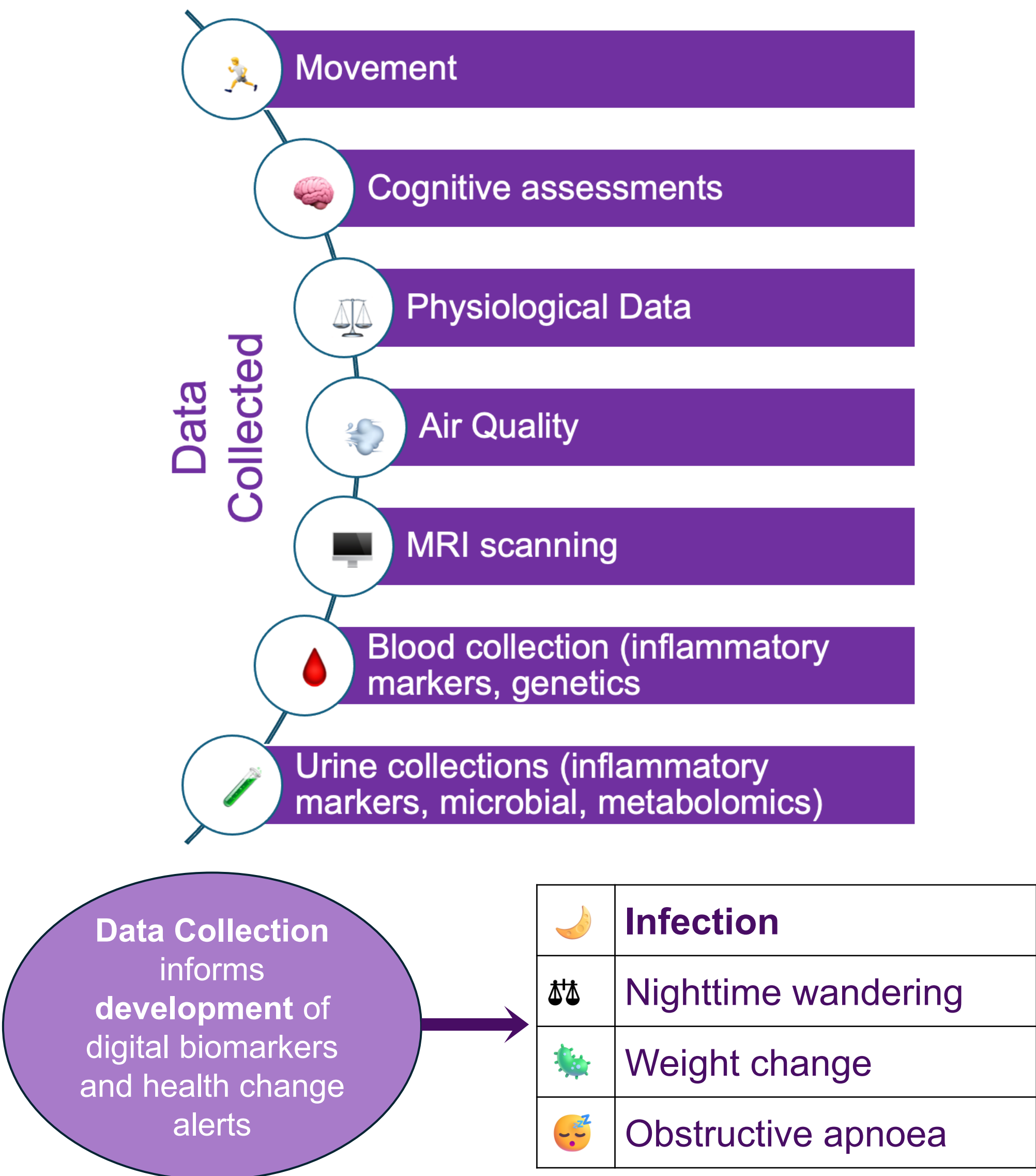
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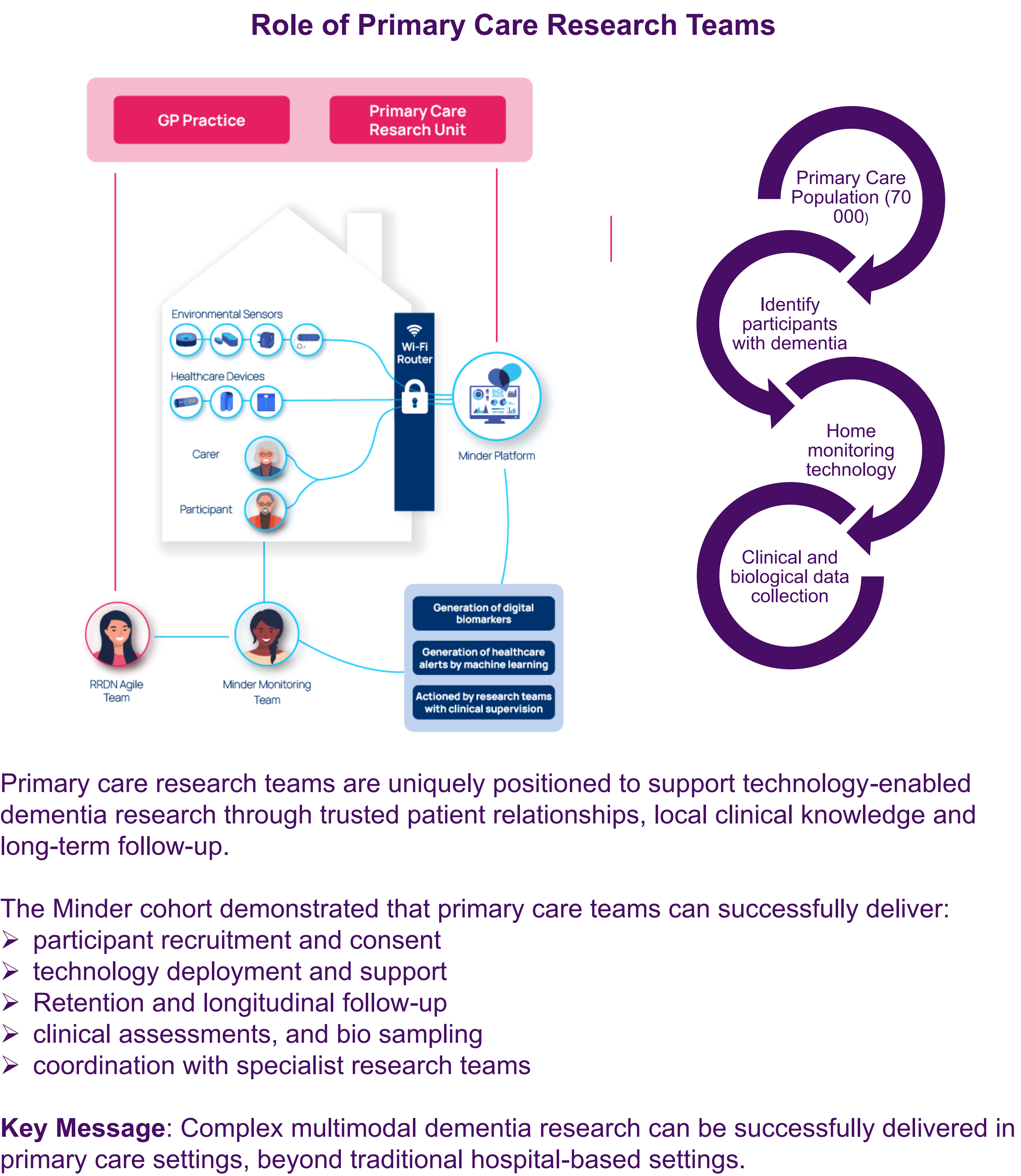
KEY TAKEAWAY: The UKDRI Minder Study demonstrates that complex dementia research incorporating home-monitoring technology, biological sampling, imaging and longitudinal follow-up can be successfully delivered within Primary Care.

INTRODUCTION

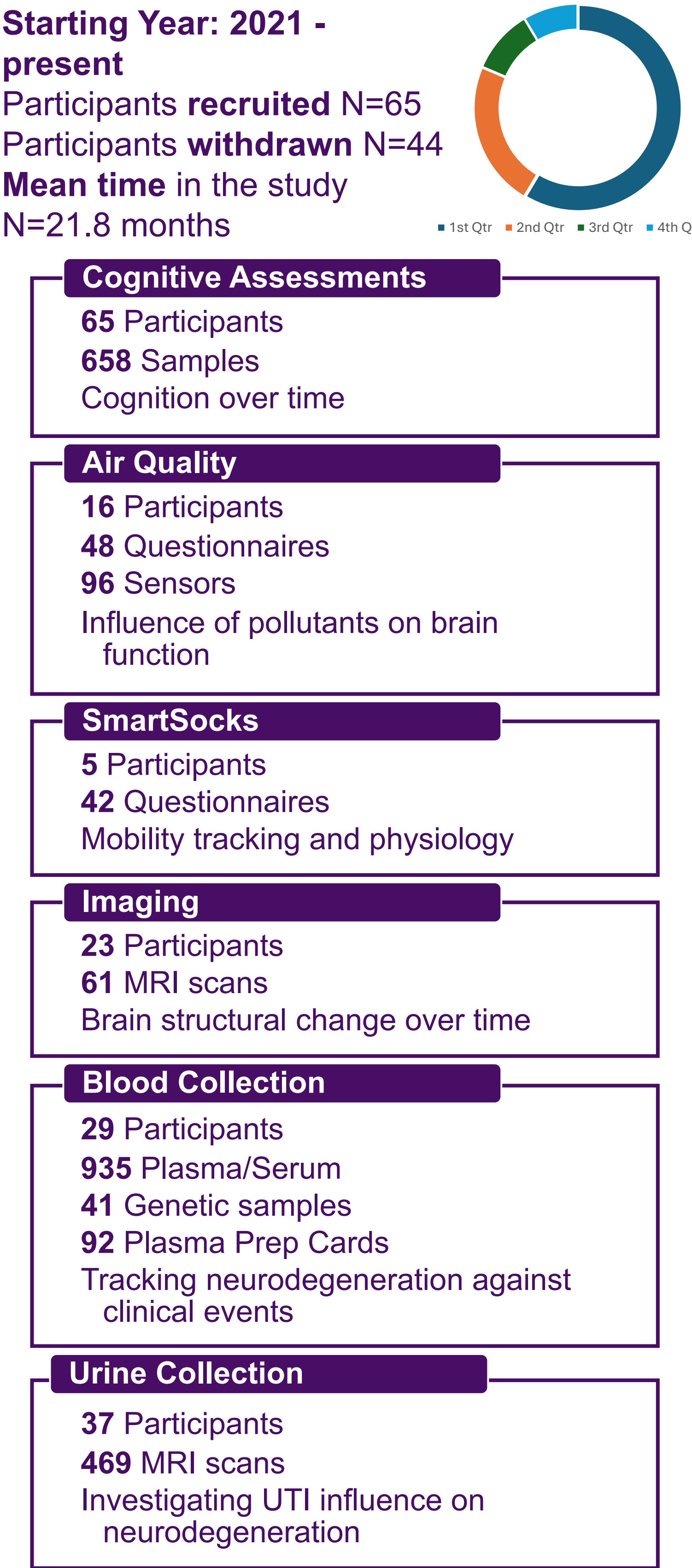
- Dementia research has traditionally been conducted in specialist hospital centres.
- Dementia care is increasingly delivered in community settings.
- Primary care is well-positioned to support complex research studies and long-term follow-up.
- Traditional approaches to care may miss early indicators of deterioration and often respond only after conditions become clinically apparent.
- Digital technologies provide continuous, real-world insights and opportunities for earlier intervention (see figure below).
- Integrating research within primary care can support scalable approaches for routine NHS implementation (see figure below).



METHODS



RESULTS



CONCLUSIONS

The UKDRI Minder programme demonstrates that complex technology-enabled dementia research can be successfully embedded within primary care, generating rich longitudinal data to support the development of digital biomarkers and earlier detection of health deterioration.

We have shown:

- ✓ Established technology-enabled dementia research in primary care
- ✓ Demonstrated long-term participant engagement
- ✓ Generated multimodal dataset
- ✓ Developed digital biomarkers

FUTURE DIRECTIONS

- ✓ Further development of machine learning algorithms
- ✓ Validation of digital biomarkers
- ✓ Earlier detection of escalating care needs
- ✓ Improving Patient care through
- ✓ Translation into routine clinical practice

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