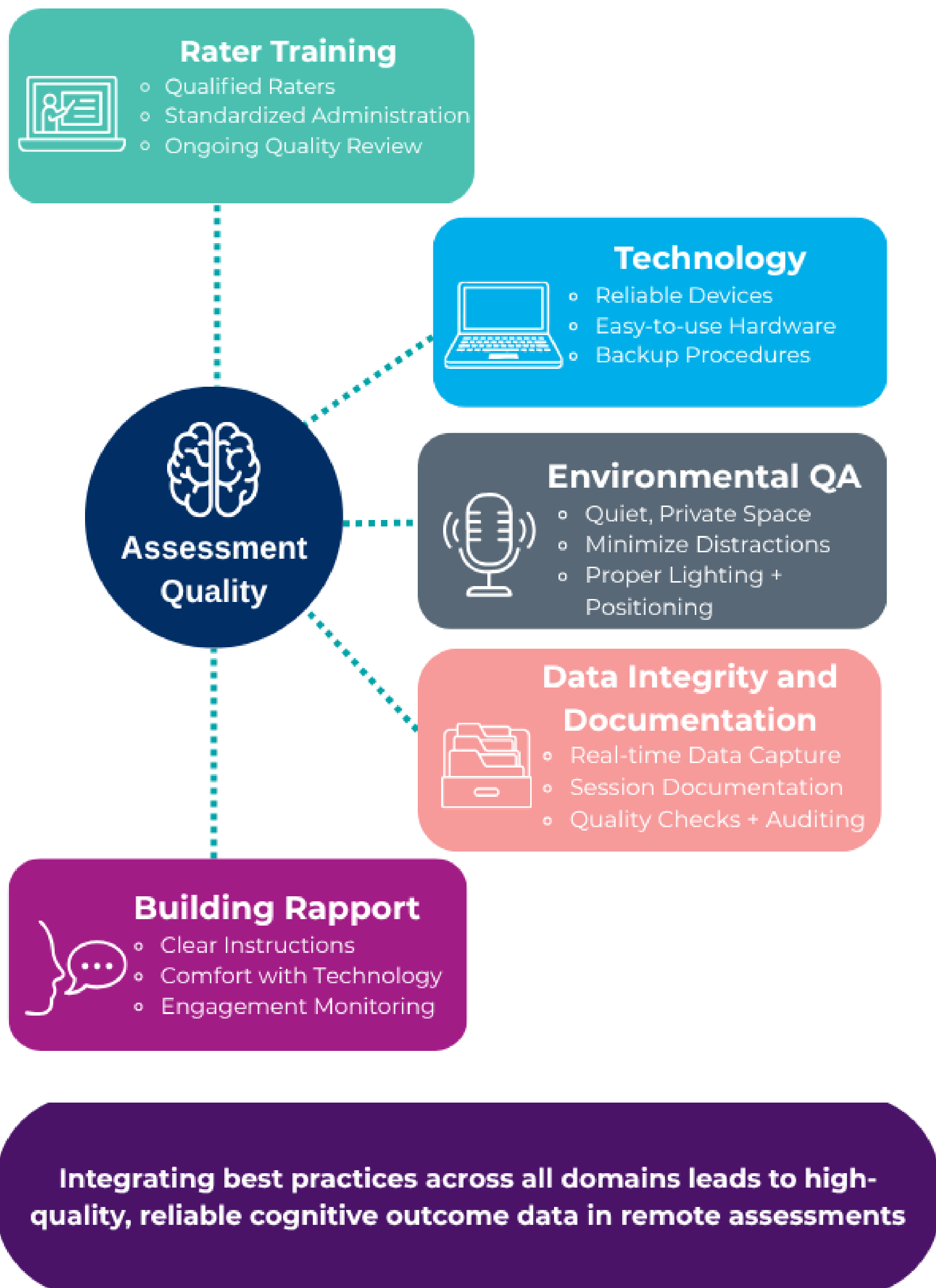


Background

- As telehealth has become commonplace, the usability of remote methods for Alzheimer’s disease (AD)-focused neuropsychological assessment has been brought into focus.
- Guidelines have been published outlining best practices for teleneuropsychological interviews. However, the need remains for determining the optimal methods for remote administration of psychometric cognitive scales, particularly in the context of clinical trials.
- Here, we developed best practices for delivering supervised verbal clinical trial cognitive outcome scales informed by literature review and extensive remote assessments conducted by the authors.

Methods

- The authors conducted over 3,700 remote clinical trial sessions.
 - Research participants were enrolled at local research sites and were provided devices to participate in remote research sessions from their homes.
 - Video calls were utilized to administer designated cognitive scales.
- In addition, we conducted a comprehensive literature review.
- We evaluated the best methods for delivering performance-based cognitive outcome assessments to maximize validity and reliability of the data collected in a remote capacity.



Common Challenge	Best Practice
Environmental distractions	Complete thorough environment evaluation
Poor internet	Connectivity checks + backup plan
Limited tech literacy	Pre-appointment training, conscientious bedside manner
Administration variability	Comprehensive rater training/selection
Participant disengagement	Rapport-building techniques

Results

- Several themes emerged as critical components for successful remote administration of performance-based clinical trial cognitive outcome assessments.
 - Comprehensive rater training programs** and **careful environmental review** are highly impactful in enhancing data validity.
- Challenges to testing may arise, such as poor technological literacy of subjects or technological volatility.
 - Utilizing these guidelines for best practices will minimize any potential data loss.

Conclusion

- Provided here is guidance on how to administer valid and reliable performance-based cognitive assessments where the assessor is remote from the participant.
- These guidelines consider the various aspects that go into conducting an assessment, including:
 - Technical details, data collection, and rapport building.
- Neuropsychology and clinical trials will continue to migrate to the digital space
 - Strong practices for remote psychometric assessments will greatly expand the reach of clinical trials **and** clinical care to individuals who otherwise would not have access.
- These guidelines should provide a solid foundation for developing testing guidelines for novel testing avenues.