



Healthcare Technology

Playing to Win with Predictive Analytics



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AXXESS GROWTH INNOVATION & LEADERSHIP EXPERIENCE

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Objectives

- Understand how to establish baseline data through accurate assessment.
- Apply science-backed strategies to improve patient outcomes.
- Learn how technology can help improve outcomes related to cognition, functional mobility, decreased hospitalization and improved patient satisfaction.

Information Gathering





Initial Contact

- Baseline information
- Patient's "inabilities"
- Homebound status
- Reason why they are unable to leave their home

Cognition

- Brief Interview for Mental Status (BIMS)
- Confusion Assessment Method (CAM)
- Patient Health Questionnaire (PHQ) items 2-9



Cognition

Lack of Improvement

- Transfers
- Ambulation
- Self-care abilities

Outcomes and Value-Based Purchasing Impact

- Rehospitalization
- Decreased patient satisfaction

What Can Be Done?



Predictive
analytics



The Science

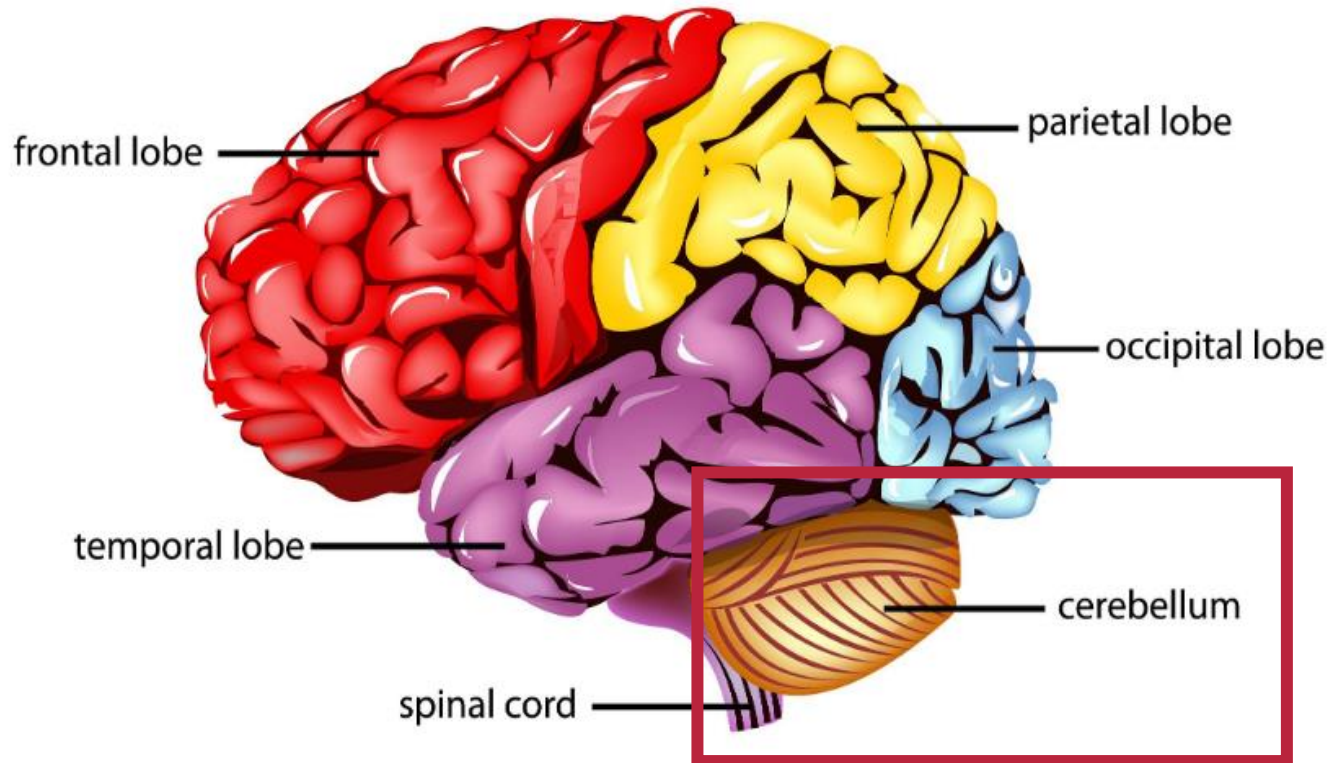
Cognitive Decline Naturally Occurs

- Memory issues
- Lack of balance and coordination
- Loss of confidence

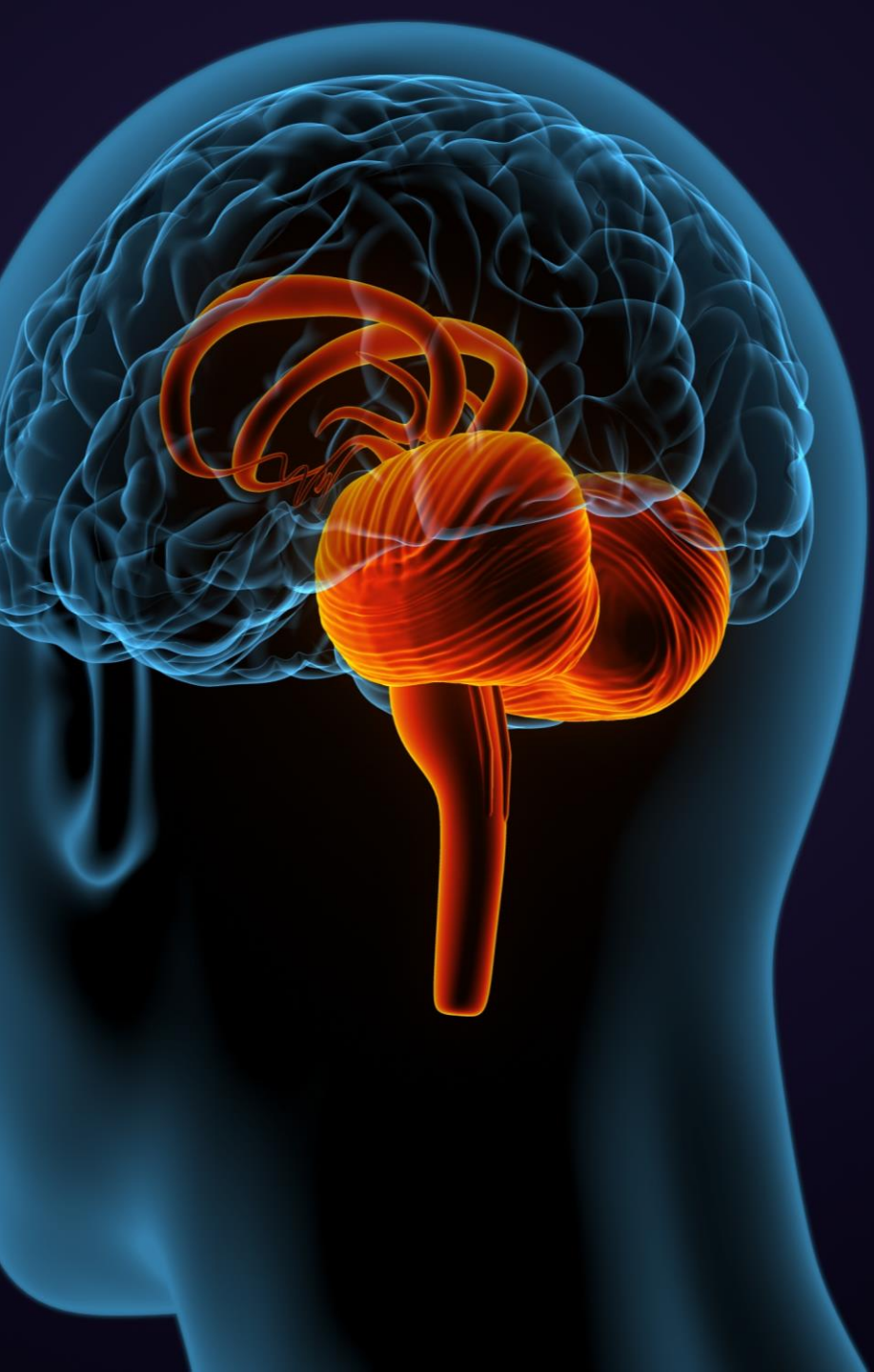
Predictive Outcomes Without Intervention

- Downward spiraling effect
- Less activity
- More cognitive decline
- Falls
- Hospitalization or worse

The Science: Cerebellum



- Makes connections between the brain and the body
- Deteriorates over time
- Connections within the brain weaken
- Inefficient signals from the brain to muscles



The Science: Cerebellum

- Activity
- Blood flow
 - New connections
 - Repair skills
- Plasticity
 - Stem cells



Technology and Outcomes

- Initial assessment
- Current status
- Potential obstacles
- Predictions from AI data learning
- Customized patient programs

Leveraging Technology to Achieve Outcomes

- Why have activities become more difficult?
- How redeveloping skills improves quality of life

Improved memory
and cognition

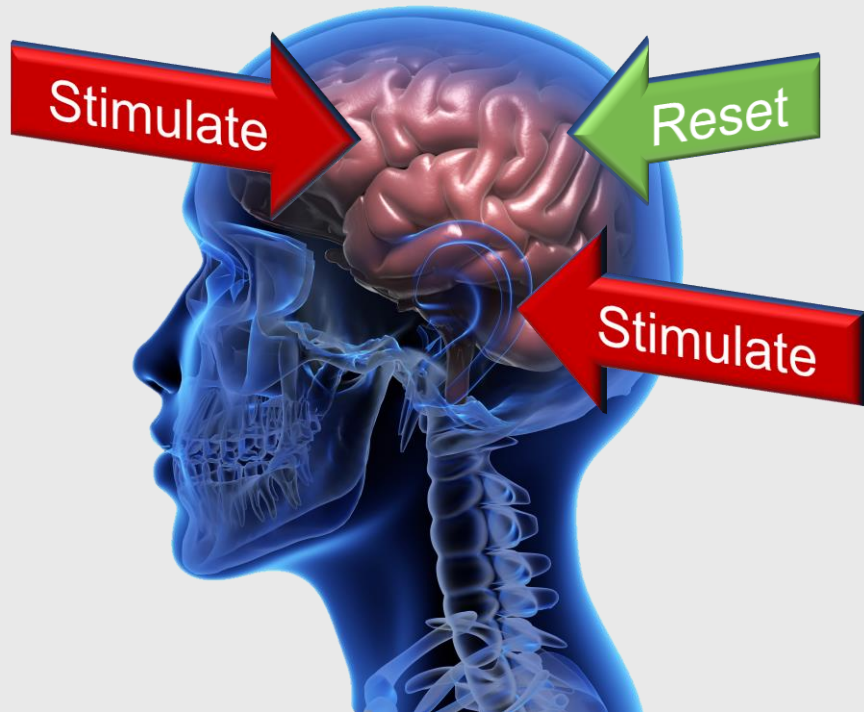
Improved
balance and
coordination



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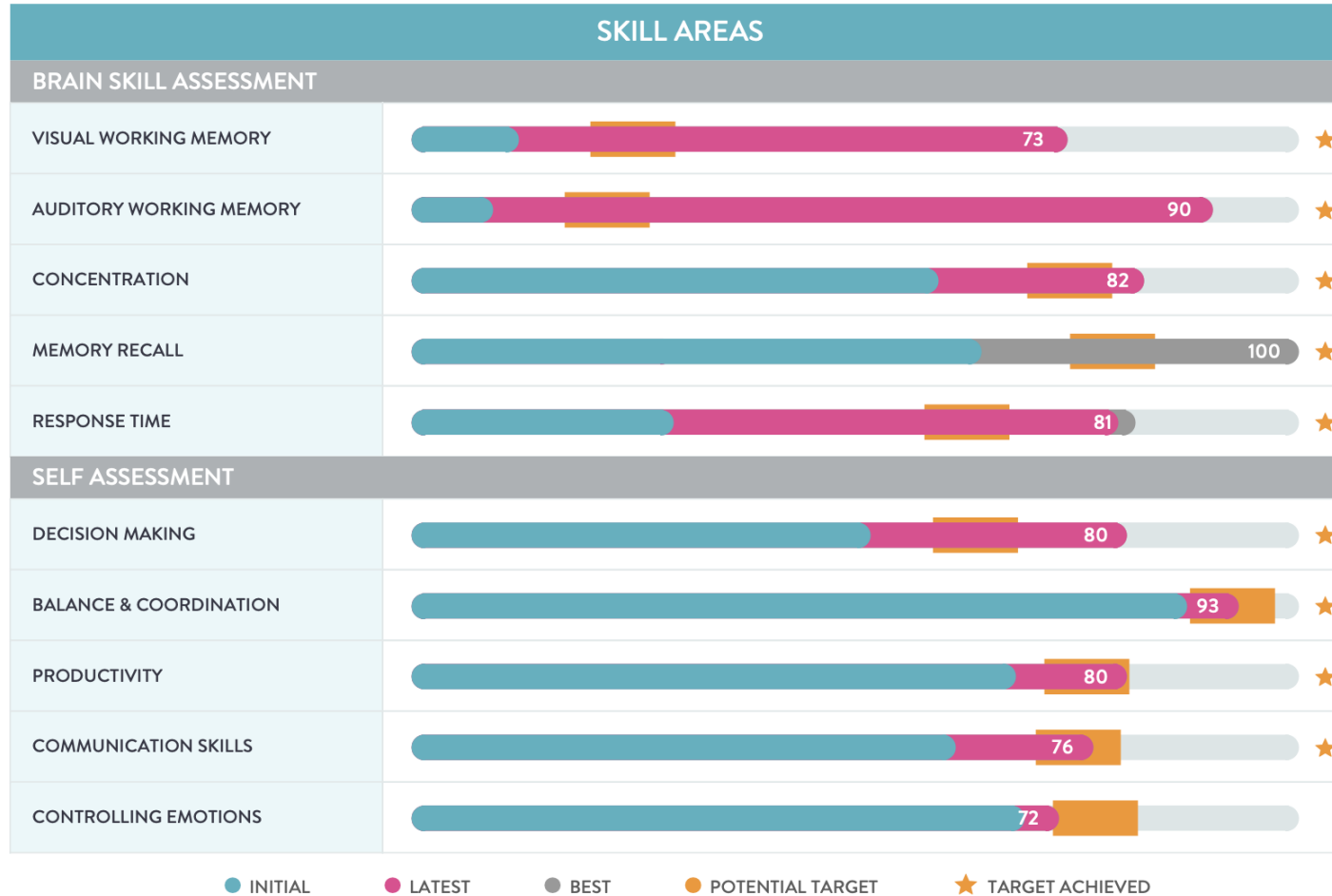
ACCESS GROWTH INNOVATION & LEADERSHIP EXPERIENCE

Technology-Assisted Programming



- Use of computer or tablet at home
- Remote one-on-one coaching
- Low-impact exercises that stimulate the cerebellum
- Fully-seated version
- Monthly reassessments
- Constant exercise adjustments to improve skills

Technology: Data Analysis



- Ongoing assessments
- Current status and progress
- Managing program adjustment
- Documented improvement
 - Program adjustment



Technology and Outcomes

- Covered by Medicare
- Minimal time commitment
- Free extensions of staffing
- Predictive
- Reduced admissions
- Higher patient satisfaction

Efficacy, Outcomes, Satisfaction



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THANK YOU



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