Moving Assistive Technology From Lab -> To User

Or

If it was easy, everyone would be doing it...

Walter Greenleaf, PhD





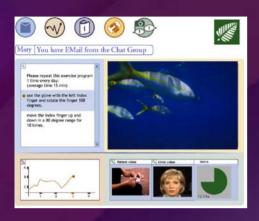






Computer Technology for Evaluation and Rehabilitation





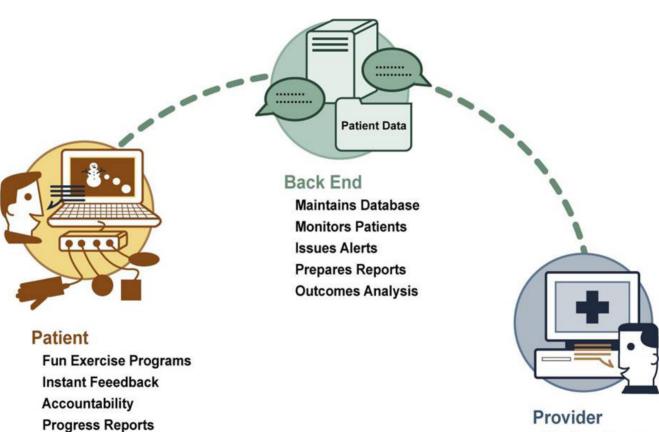






Cognitive & Physical Therapy
Facilitated by Interactive Media Technology

Integrated Telerehabilitation Program



Ability to communicate with Provider

Provider

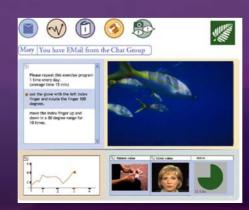
Monitors Progress Receives Alerts Adjusts Regimen

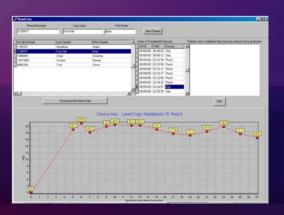
Computer Assisted TeleRehabilitation

Treatment approaches designed to generate optimal recovery:

- Guarded rehabilitation activities
- Graduated short term milestones and goals
- Real-time visual feedback of rehab progress
- Cognitive distracters (from pain, fear, boredom)
- Daily clinical oversight and therapist-provided feedback
- Collaborative Rehabilitation









Daily evaluation of rehabilitation progress

Feedback loop closed

Quantitative and qualitative assessment

Improved compliance with home programs













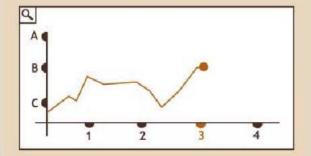
Mary You have EMail from the Chat Group

Please repeat this exercise program 1 time every day: (average time 15 min)

 use the glove with the left index finger and rotate the finger 100 degrees.

move the index finger up and down in a 80 degree range for 10 times.



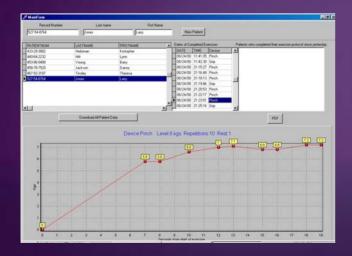




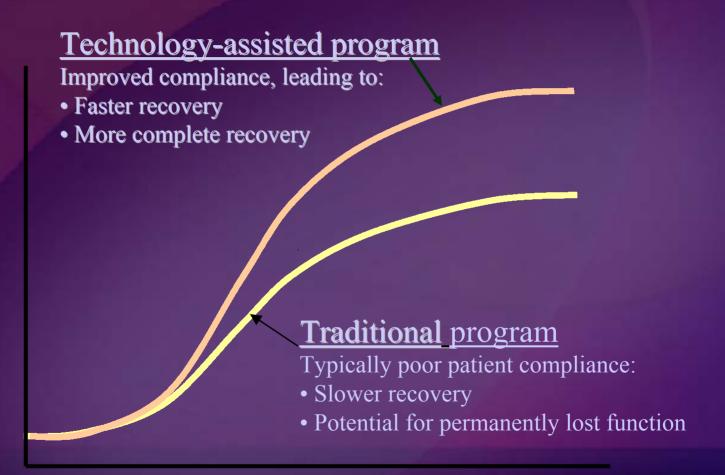
Guarded rehabilitation activities





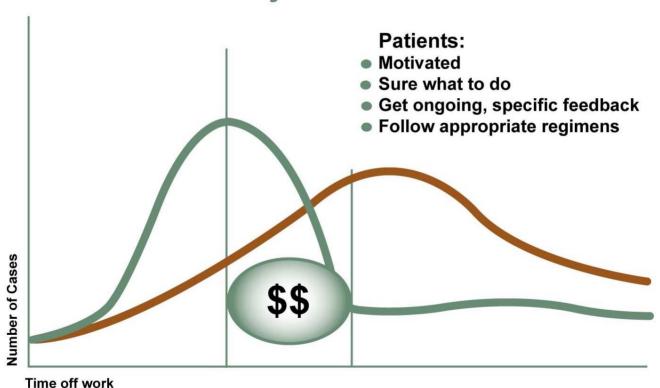


Patient Benefits



Time

Benefits of Dynamic Rehab



An Electronic Scrapbook for Patients With Progressive Memory Loss, Such As Alzheimer's Disease





Nature of the Assistive Technologies Market





Closing The Gap

Assistive Technology Resources for Children and Adults with Special Needs

Nature of the Assistive Technologies Market





Ways to get a product to market

Do it yourself:

Finance

Design

Develop

Validate

Manufacture

Regulatory Approvals

Distribute

Support

Do it part of it yourself:

Finance

Design

Develop

Validate

Manufacture

Regulatory Approvals

Distribute

Support

The Challenge of the Assistive Technology Market

- Few large companies addressing the market
- Difficult to raise investment capital Market is viewed as small Not many examples of ROI
- Competition from other investment opportunities

These barriers to entry are not insurmountable, but must be factored into your design and business plans.

The Challenge

Getting assistive technology to the user requires a different approach than standard commercialization strategies.

The situation will improve, with the passage of time and the aging of the population.

In the meantime:

Design with the *complete process* in mind; from <u>concept</u> to <u>commercialization</u>.

Reverse engineer from "the exit".

The Challenge

Getting assistive technology to the user requires a different approach than standard commercialization strategies.

The situation will improve, with the passage of time and the aging of the population.

One approach is to leverage existing distribution channels.

Direct to consumer may be a viable option for distribution; but how to finance development, validation, manufacturing, regulatory approvals etc...

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http://www.greenleafmed.com