Learning Objectives

- Identify commercially available alternative mouse options
- Recognize some of the commercially available means of text entry
- Describe at least 2 programs/applications designed to assist individuals with learning disabilities that include head injuries and visual deficits
- Identify key factors to consider when recommending a computer access solution

Computer Access Definition

Computer Access is a term usually used to refer to a specialized group of hardware and software designed to enable individuals with a wide range of disabilities to use a personal computer.
TWO PRIMARY AREAS TO BE ADDRESSED WHEN PERFORMING A COMPUTER ACCESS EVALUATION:

* Mouse Operations (pointing, clicking, dragging, etc)
  * Text Entry (numbers and letters)

Commercially Available Products

RollerMouse
Additional Mice

Alternative Mouse Inputs

Footime Foot Mouse

Mouse Button-Box
Text Entry

“One-Handed” Keyboards

IntegraMouse

Jouse

Half-QWERTY Keyboard
Reduced Size Keyboards

Low Profile Keyboard

Enlarged Keyboards

IntelliKeys

Big Keys

Keyboards for Low Vision
Keyboards/Software to assist low vision clients

MaGIC:

Voice Recognition Dragon Naturally Speaking Version 11 (Version 11.5 is now available)

Dragon NaturallySpeaking 11 Premium with Bluetooth Headset

On-Screen Keyboards: Directed Scanning

REACH

SoTType
CAMBIUM LEARNING TECHNOLOGIES ANNOUNCES KURZWEIL 3000™ VERSION 12

More than a text reader . . .

Kurzweil 3000 Version 12 for Windows is an Integrated Literacy Solution

NEW! Read&Write 10 GOLD
Helping All Readers and Writers Succeed

Read&Write GOLD is a customizable easy-to-use toolbar that directly integrates with familiar applications, including Microsoft Word, Internet Explorer, and Adobe Reader, allowing students to access the support tools they need from within the programs they use every day. The product highlights and reads text aloud using natural sounding voices and also includes a comprehensive set of support tools for reading, writing, studying, research, and test taking.
WordQ+SpeakQ is the first and only writing tool that integrates word prediction, spoken feedback, and speech recognition.

SmartPen

MathType - Professional Version of Equation Editor

MathType is the professional version of our Equation Editor, included in Microsoft Office and other applications. It will let you create a wider range of equations for a wider range of documents, and help you work much more efficiently. We've added an enormous amount of functionality that effectively transforms Microsoft Word into a state-of-the-art math word processor and Web page editor.
COMPUTER ACCESS INTEGRATED WITH OTHER ASSISTIVE TECHNOLOGY

Blue Tooth Mouse built into power wheelchair electronics

Invacare System
Case Study #1

Brian: 50-year-old male with a C4-5 Level Spinal Cord Injury, President of a Home Health Care Agency. Several years post-injury, update assistive technology

Recommendations

- Permobil Blue Tooth Module
- New Laptop Computer
- SAJE Communicator/Office Mate
- Dragon NaturallySpeaking (Version 11)
- RollerMouse
- Low Profile Keyboard
- Dragger32 software
- (Work desktop computer is relatively new)
Case Study #2:

Kelly: 18-year-old female with Learning Disabilities, Transitioning from High School to College

Recommendations

- Laptop Computer
- Kurzweil 3000 Learn Station
- WordQ
- Dragon NaturallySpeaking (Version 11, Premium Edition)
- SmartPen

Case Study #3:

Christina: 55-year-old female with MS, she would like to continue working as an Office Manager for a construction company.
Recommendations

- Steelcase Leap Chair
- Air Touch Sit-to-Stand Table
- Logitech Trackman
- Kensington Expert Mouse trackball
- Dragon NaturallySpeaking (Version 11)
- Gel Wrist Rests
- (Existing Desktop Computer is adequate)

Factors to consider when putting together computer system recommendations

- Client Goals
- Windows or Macintosh based system
- Where will the system be used (home, school, work)
- Desktop vs Laptop vs Tablet based system
- Client’s prognosis
- Client’s cognition
- Expense of the system and the funding source
Current Laptop Computer Specs

The laptop computer should meet the following minimum system specifications:

- Intel i3 or i5 Processor
- 4GB Memory (Expandable at least 8GB)
- 250 GB Hard Drive
- 15" Active matrix display
- Integrated DVD/CD-RW combo drive
- Integrated ethernet adapter and Wireless-Lan Blue-Tooth
- USB 2.0 port(s) at least two
- External monitor port
- Built in sound card with external microphone/speaker ports
- Integrated touchpad mouse
- Lithium ion battery with AC adapter
- Windows 7 Operating system (64-bit version or Professional version & higher)
- Internet security (virus protection/spyware blocker/firewall)
- Carrying case

**NOTE:** A printer (or an All-in-One) is also suggested to enable the protection of hard copies for his/her work

Thank you…Any Questions

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