ASSISTIVE TECHNOLOGY OVERVIEW:

AT COMMONLY USED BY ADULTS WITH I/DD IN THE NEW MEXICO DD WAIVER

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What is Assistive Technology?

- According to the Assistive Technology Act of 2004, an assistive technology device is “any item, piece of equipment or product system, whether acquired commercially, modified or customized, that is used to increase, maintain or improve functional capabilities of individuals with disabilities.”
AT for Communication

- Symbol or Picture Systems
- Tangible Symbols
- Eye-Gaze Systems
AT for Communication

- Simple Voice Output Devices
AT for Communication

- Higher Tech Devices
Other AT for Communication

- Voice Amplifiers
- Hearing Aides
- Phones
- E-Mail
AT for Mobility
Parts is Parts ....

- Wheelchairs may have many removable parts
  - Headrests
  - Chest harness
  - Positioning Pads
  - Seatbelts
  - Footrests
  - Seat Cushions
  - Etc....
Common Wheelchair Accessories

- Mounts
- Bags
- Gloves
- Sunshades
- Lights/Strips
- Drink Holders
- Trays
Other AT for Mobility

- Walkers
- Canes
- Gait Belts
- Orthotics
- Bicycles
- Car Controls
- Etc…
AT for Positioning

- Alternative Positioning
- Wedges
- Sidelyers
- Standers
- Bed and Chair Supports
AT for Transfers

- Lifts
- Track Systems
- Sliding Boards
- Gait/Transfer Belts and Bands
- Transfer Bars and Boards
AT for Bathing and Toileting

- Bath Chairs
- Tub Transfer Seats
- Bath Trolleys
- Etc…
AT for Eating/Drinking

- Adapted Utensils
- Adapted Plates/Cups
- Non-skid Mats
- Plate Risers
- Various Supports
- ETC …
AT for other Self-Care Activities

- Dressing
- Tooth brushing
- Grooming
- Etc…
AT for Cooking and Shopping
AT for Cooking and Shopping

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AT for Leisure
AT for Medication Administration

- e-pill Key-Chain Reminder
- MedCenter Alarm Clock
- Pill Box Dispenser
- MedCenter Voice Alarm
- Easy to Read
  DAYS and TIMES
  (AM, Noon, PM)
- Easy to Dispense - Simply move lever to drop Medications into patient's hand
- Each day has 3 Slots for 7 days (1 Week) of Medications
AT for Environmental Access

- Environmental Control or Electronic Activities of Daily Living (EADLs)
- Switch Access
Switch Access

- Switch-adapted devices
- Interfaces
Switch Access

- What can I do now?
Switch Access

- What else can I do?
Environmental Control or EADL
Computer Access
IPad

- Access options
APPS...

I Rule

Re IR Remote

First ... Then ...

Pictello

Model Me

Prologue
AT for Specific Work Tasks

- OTs: design or provide resources for AT for specific work tasks; from simple enlarged handles to specific custom task or computer adaptations.
AT for Specific Work Tasks
More AT for Specific Work Tasks
Personal Support Technology

- “Personal Support Technology is an electronic monitoring device or system that supports individuals with developmental disabilities to be independent in the community or in their place of residence with limited assistance or supervision by paid staff.”

2013 DDSD Service Standards
Personal Support Technology

- PST is derived from Home Automation and Telehealth concepts.
- These types of systems are utilized with the needs of persons with physical/intellectual challenges in mind.
PST = Possibilities

- Activity Cueing and Tracking
- Individual Response Protocols
- Med. And Health Monitoring
- Personal Emergency Response
- Home Security and Safety

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Monitoring Sensors
Video Monitoring

• In common areas.
• Will need guardian and HRC permission.
Two-Way Communication

- Activity Cueing
- Companionship
- Ask for help
- Medication and other reminders
- Scheduled Check-ins
- Telehealth
- Response to Sensor Alert
- Staff Communication
Home Security and Safety

- Smoke Detectors
- CO Detectors
- Door/Window Alarms and Sensors
- Remote Lock/Unlock
- Stove Guard
- Leak Detection
- Temperature Controls
- Event Scenarios
Personal Emergency Response Systems

- Call pendants, watches, centers.
- Fall alert and seizure alerts also available.
- Customize call protocols.
Tele-health Options

- Monitor and Report weight, O2 stats, BP, Glucose Levels, Heart Rate, etc.
- Reminders, Notification to providers and/or health professionals.

Figure 2. Personal area network connectivity.
Customized Response and Reporting Protocols

- HD Camera
- Microphone
- Night Vision
- Motion Detection
- Siren
- Temperature
- Air Quality
- Humidity
Function...Function...Function