Augmentative & Alternative Communication Next Steps (Assessment and Implementation)

AAC - Augmentative & Alternative Communication Types of users:

Alternative Language Group
Who

Goal

Expressive Language Group Who

Goal

Supportive Language Group Who

Goal

(Martinsen & vonTetzchner, 1996)

How do we help?

Assessment & Evaluation defined

In AAC, assessment and evaluation are used interchangeably, but perhaps they should be used together!

Augmentative Communication Assessment

Goal of AAC- Assist individuals with communication disorders to become communicatively competent to meet current needs and to prepare them for future needs.

Purpose of AAC Assessment:

- Determine which methods and tools will improve the exchange of information between the individual and others- communication!
 - Knowledge of individual
 - Assessment of the skills and needs of the individual in multiple areas affecting access to and understanding of communication (vision, motor, hearing, language, etc.)
 - Knowledge of AAC (not just devices, but also techniques and strategies)
 - Integrated with Evidence Based Practice
 - Includes research

- o Clinician's expertise
- _o Consumer's values and preferences

Beukelman & Mirenda, 1998 Heling & Rush, 2009

Results of the AAC Assessment:

- o To provide a plan for communication supports that includes:
 - o Details of recommended non speech and/or speech generating systems
 - o Recommendations for any changes to the environment to support communication (including training partners)
 - o Recommendations for intervention to address or improve operational, linguistic, strategic and social competence

Who should participate?

Why?

Types o	f AA	C Ass	essme	nts
---------	------	-------	-------	-----

of AAC Assessments	
models	
Who needs AAC?	
Replaced by	models
Based candidacy on needs, model	not on impairments
Assess and base AAC on fur peers	nctional participation requirements of
f	or Speech-Generating Devices (SGD)

Feature Based Assessment

Plan to Assess and Evaluate

- o Identify and define areas of concern
- o Gather information related to concerns
 - Gather relevant information for various skill areas related to the use of SGD
- o Analyze information
 - Create a Feature List
- o Generate and prioritize potential solutions
 - Compare intervention options
- o Develop trial action plan
- o Conduct trials and collect data on effectiveness
- o Formulate recommendations
- o Document

State the Need or Goal

- o Make sure that everyone is on the same page!
- o What do you hope to achieve by the end of this assessment and evaluation process?

Gather the Information

- O Survey family and team members or service providers
 - o Current problems
 - o Current communication behaviors or skills
 - o Activity preferences
 - o Any history of usage of communication supports

What can I use?

Any case history form obtained or developed or customized for this purpose

WATI forms

http://www.wati.org/?pageLoad=content/supports/free/index.p
hp

Easter Seals DuPage forms

http://dfvr.easterseals.com/site/PageServer?pagename=ILDU AssistiveTech

Infinitec Student Summary forms (handout)

o Sensory/Perceptual

Goal is

- Vision (Any standard assessment information and/or informal notations by team members)
- o Visual Acuity
- o Visual Field
- o Oculomotor Functioning
- o Light Sensitivity
- o Color Perception

What can I use?

Formal or Informal testing materials may be:

TASP (Test of Aided-Communication Symbol Performance by Joan Bruno)

Created boards/electronic displays with differing symbol sizes and placements (eye gaze and direct selection)

Pogo Boards (https://www.pogoboards.com/Login.aspx)
Speech Generating Device Page sets/tasks
DynaVox, Prentke Romich Company, Tobii, etc.

- o Hearing (Standard Assessment)
- o If aided, where is sound best heard from?
- Other sensory systems (tactile, olfactory, vestibular, qustatory) *

If these are the targets for more in-depth investigation, use of Every Move Counts, Clicks and Chats is recommended as the assessment tool. Information from that tool can then be brought to the Feature Match outline for further determination.

o Motor Skills

Goal is

- o Identify appropriate positioning
- o Identify selection method and technique (direct, scanning, encoding)

What are three types of scanning?

o Where on the body (hands, head/voice, feet, arms/elbow, legs/knees, eye gaze)

- o What action will be used
- o How with the movement be used (direct select, head pointing, eye gaze, joystick, Morse code, scanning)

Considerations

Type, range, accuracy, consistency, strength, speed, etc.
Activation site: the minimum size of the targets, possible number of targets, spacing of targets, etc., will be determined by accuracy
Sensitivity: the amount of pressure or force needed to activate the target.

Questions to ask yourselves:

What can I use?

Formal or Informal testing materials may be:

TASP (Test of Aided-Communication Symbol Performance by Joan Bruno)

Created boards/electronic displays with differing symbol sizes and placements (eye gaze and direct selection, scanning)

Pogo Boards (https://www.pogoboards.com/Login.aspx)

Speech Generating Device Page sets/tasks

What companies?_____

	_	-		
\sim	1.04	าทเ	tio	n
0	Cod	4111	uv	

Goal is			

Gain information on how the student perceives world and how they may use communication within their understanding.

- o Assess ability to categorize
- o Assess ability to use memory skills/motor patterns

What can I use?

Communication Matrix, Every Move Counts-Clicks & Chats,

Communication and Symbolic Behavior Scales by Wetherby and Prizant, TASP, other formal or informal tests and inventories.

o Language skills

Goal is

- o Vocabulary (assess understanding if possible and survey needs)
- o Grammar
- o Discourse/Pragmatics
- o Literacy
 - o Assess reading, spelling, and writing skills if present.
 - o Can the student use letter cues, recognize words when offered, understand alphabetical arrangements, etc.

What can I use?

Use word lists, use interview and observation inventories.

Take a language sample! What types of words used, how frequently, etc.

Use formal tests (TACL, CELF, SPELT)

Video an interaction opportunity, take a language sample! What topics initiated, continued, terminated?

Use formal or informal assessments regarding literacy levels, sight words, etc.

o Symbol Selection

_		
	201	
. 71	วลเ	13

o Determine how an individual can communication with symbols & possible symbol types

Objects, Texture cues or symbols, Cut Out Photographs, Pictures, and Symbols, Photographs, Line Drawings (Color), Line Drawings (Black & White), Realistic (Color), Realistic (Black & White), Visual Scenes, Alphabet/Spelling

What can I use?

TASP; Speech Generating Device Protocols; Metaphor Protocol by Gail Van Tatenhove

(http://www.vantatenhove.com/showfree.php?id=182), informally

created comparisons

Use of Communication Partners & Environments

Why is this important?

What can I use?

Informal observation/documentation, video clips, interview, Social Networks by Sarah Blackstone.

Analyze the Information

Determine a list of features needed based on performances, behaviors, needs gathered.

Input Features and Selection Methods

- o Access Method
 - o Direct Selection
 - o Range/size, touch sensitivity or responsiveness, position, zoom
 - o Scanning
 - o Number of choices, prompting (auditory/visual), zoom, highlighting, etc.
- o Input Features and Selection Methods (cont'd)
 - o Display Design
 - o Size of targets, number of targets, arrangement, contrast, etc.

Output Needs

- o Speech output
 - o Type- digitized, synthesized, combination
- o Display output
 - o Words/letters for partner/user reference
- o Activation Marker
- o Environmental controls
- o Interface to computers, printers, phone systems
- o Message Characteristics
 - o Whole sentences
 - o Phrases
 - o Words
 - o Letters

- o Pictures
- o Ability to combine any of the above?
- o Rate Enhancement Strategies
 - o Visual scenes, topical dictionaries, Unity, word prediction, abbreviation-expansion

Physical Characteristics

- o Size
- o Weight
- o Battery Life
- o Durability
- o Mounting
- o Transferability
- o Ease of setup
- o Visibility
- o Backup systems

Determine Options

o Generate a list of systems that meet many or most of the needs list

How do I do that?

AAC TechConnect (trial)
Manufacturer Websites
Handouts from other sources
Own Experience

Resources for Systems Comparison

AAC TechConnect <u>aactechconnect.com</u>

My Dynamic Therapy

www.mydynamictherapy.com/tools for professionals.htm

Closing the Gap <u>www.closingthegap.com</u>

SETBC http://www.setbc.org/lcindexer/default.aspx

ABLEDATA http://www.abledata.com

Assistive Technology Exhibits (ATIA, CTG, CSUN etc)

Speech Generating Device manufacturers

Enabling Devices http://enablingdevices.com

Gus Communications Inc. http://www.gusinc.com/Communicators/

Dynavox Technologies http://www.dynavoxtech.com/products/devices.aspx

AMDI http://www.amdi.net/comparisonMain.php

Ablenet http://ablenetinc.calls.net/Home/Products/CommunicationProducts

Trials

o Obtain the top systems for trial

Where can I go?

State Assistive Technology Program- Lending Program, www.iltech.org
Infinitec Coalition
Speech Generating Device Companies
Professional Loan
Local Representative
Device Rental
School Districts and Special Ed Cooperatives

- o Set up systems for student
 - o Vocabulary, access method, voice, positioning
 - o Train staff that will be involved with student for trial
- o Try systems with student and note performance, behaviors
- o Length of trial may depend on student and equipment availability
- o Determine what is important to observe during the trial
 - o Ease of access
 - Use of the system functionally (where and with whom and with what other supports)
 - o Document performance
- o Compare performances and data and discuss with team members
- o Determine next plan of action
- o Further trials
- o Procural of system and supports
- o Develop communication intervention plan
- Determine responsibilities for ongoing training, troubleshooting, and updating

Where do I go to write the report/submit for purchase?

- o Report Templates and Funding Information
 - o AAC-RERC http://aac-rerc.psu.edu/
- o Assistive Technology Law Center, Inc. <u>www.aacfundinghelp.com</u> o Funding Sources
 - o AAC Report Coach
- o Funding Assistance from Speech Generating Companies
- Other processes within district or use of established forms from WATI or GPAT (<u>www.gpat.org/</u>)

PowerPoint and other resources available at http://aacworkshop.pbworks.com/