







Exploring and charting authentic social interaction

'AUTHENTIC SOCIAL INTERACTION'

- Saylt Naturally Level 1: Verbal Strategies for Authentic Communication for Advanced Beginner to Intermediate ESC Students (Second Edition] by Allie Patricia Wall Simmons-Mackie, N. & Damico, J., (1996). Accounting for handicaps in aphasia: communicative assessment from an authentic social perspective, Disability & Rehabilitation. 18: 13, 540-549
- social perspective, Disubility -11, 540-549 Saying What's Real: 7 Keys to Authentic Communication and Relationship Success by Susan
- Communication and Relationship Julicess up Julicess up Gampbell Leading Out Loud: Inspiring Change Through Authentic Communications, New and Revised by Terry Pearce.
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WHAT DO WE MEAN?

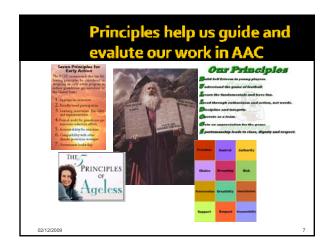
- Authenticity means being real and genuine when you communicate.
- Interactions between individuals who use AAC and partners too often violate characteristics of authentic communication
- Clinical practice, research and AAC tools should foster authentic communication

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Charting the path **Using an Interaction Model**

- 1. Make the case for a theoretically grounded interaction model.
- Discuss relevant constructs (e.g., 'Language', 'Communication', 'Attention,' 'Utterances')
- Illustrate with case examples.

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Principles Reflect Basic Assumptions



- Communication is a complex, dynamic, transactional process
- AAC seeks to enhance communication across the broad spectrum of communication options
- Successful AAC interventions result in outcomes that benefit, and are valued by those for whom they are targeted
- The who, what, why, where, when and how of communication has changed over past few years

Blackstone, S., Williams, M.B., Wilkins, D.P. (2007). Key principles underlying research and practice in AAC. AAC, 23, 191-203

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Example of Principles



and instructional

recognize unique

roles communication

partners play during

in ways that

interactions.

and instructional rategies in AAC 4. AAC technologies strategies designed

5. AAC technologies & instructional strategies enable individuals with CCN to expand and strengthen existing social networks & relationships and fulfill societal roles.

3. AAC technologies & instructional strategies re underpinnings to abilities, preferences and priorities of individuals earch, developme

, with CCN 6. AAC-RERC outcomes realized in practical forms. Social validity determined by individuals with CCN, family members and the broader community.

support and foster

Blackstone, S., Williams, M.B., Wilkins, D.P. (2007)

Principle #2

Widely accepted theoretical constructs are underpinnings to AAC programs, research, development, intervention strategies and products.

- Mission statements (ALL)
- What and how we do research
- How, where & with whom we conduct AAC assessments
- How, when, where, with whom we plan, implement and measure impact of AAC interventions
- How (etc.) we design, develop and deploy AAC tools, technologies, techniques & strategies

"Widely accepted theoretical constructs" in AAC come from other fields and enlighten our work



- Language
- Communication
- Authentic social interaction
- Rate, utterances, joint attention
- Social networks
- Inclusion
- ICF model of disability
- Ergonomics
- Knowledge translation, etc.

Theoretical constructs also emerge and are strengthened from within our field

- Contextual determination of mode selection
- Utterances
- Co-construction of meaning
- Levels of attention
- Aided language/augmented input
- Communicative competence
- Participation model
- Social Networks

MULTI-MODAL MAN

el B. Williams (2004).

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Dr. Claude Bernard (1865). An Introduction to the Study of Experimental Medicine as recently cited by Jonathan Edlow, M.D. (2009). The Deadly Dinner Party: and Other Medical Detective Stories

"When we meet a fact which contradicts a prevailing theory, we must accept that fact and abandon the theory even when the theory is supported by great names and generally accepted."

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Need to examine our theoretical constructs in light of evidence

- Constructs underlie how we operate, are applied in our work and help us evaluate our outcomes.
- Too often we see work that reflects unexamined / undefined / outdated theoretical constructs

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LANGUAGE' (narrowly defined)

CODE WITH FOUR ELEMENTS DOESN'T WORK FOR US

- Semantics
- Syntax
- Phonology
- Pragmatics

(e.g., Chomsky, 1957, 1975; Brown, 1973)

- Based on written samples
- Not derived from language in face-to-face interactions
- Largely ignored how language is used in context
- Too narrowly defines pragmatics
- Utterances? Considered with regard to linguistic elements only

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"LANGUAGE" (Currently accepted definition

Semantic-pragmatic, multimodal view – meaning and social relations determine form (Bosed on interaction studies, multiple languages, across age control)

- Language is a multimodal, social, semantically and pragmatically based
 - CONSTRUCT. (Bates & Dick, 2002; Slobin, 2003, etc.)
 An utterance is NOT just comprised of linguistic
 - elements alone (Clark; 2009; Higginbotham, 2009;)

 Gestures critical to both linguistic and cognitive development (Goldin-Meadows, 2003; Volterra, Caselli, Capirci &
 - Pizzuto, 2004)

 Studies of language acquisition (Bowerman, Bates, Snow, Tomasello, etc.) Support this view of language

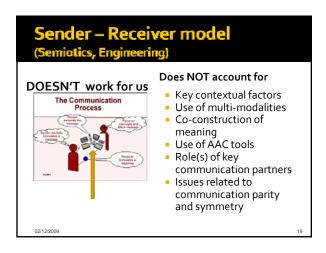
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Language and AAC

- Use of language by individuals who use AAC is strategic.
- Use of language reflects partners, contexts, activities, intents/goals, <u>available tools</u>, as well as the linguistic and communicative competencies of interactants.
- Jeff -> utterances, selection of modes, timing, etc.; adult
- Mary -> levels of attention, school news, etc.; children

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COMMUNICATION' (sender-receiver Shannon and Weaver 1949 Exchange of information/ideas The Communication usually via a **Process** common system of symbols Focus on code, emphasis on transmission (words, images, sounds, touch or smells) 02/12/2009





At core of all human communication is the creation of shared meaning between interactants

Clark, 1996; Gudykunst & Kim, 2003; Grove, Clibbens, Barnett & Loncke, F. (1998).

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Observations

- Limited use of language
- Shows the power of speech and language
- What else?

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Meaning NOT established but...

BABY

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- Clear goal
- Multi-modal ->Nonlinguistic modes
- Motivated!
- Joint attention good
- Uses context brilliantly
 Socially/sulturally
- Socially/culturally mediated
- Emotional components

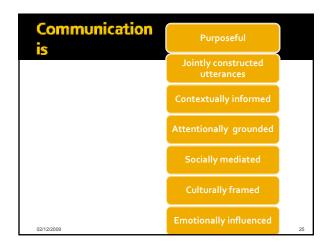
PARTNER (WHO?)

Recognizes

- baby wants something
- conventional gestures (point)
- Motivated!
- Joint attention good
- Lacked shared knowledge??
- Doesn't infer... from the context or baby's utterances
- Underestimates skills/ abilities

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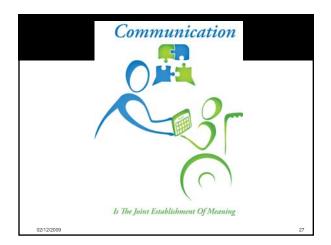
How 5LPs view 'LANGUAGE' and "COMMUNICATION' affects what we do! What we target -> what takes priority

- What we assess and treat
- Who and what we include or don't include in our recommendations/ goals/ treatment plans /definitions of success
- What we choose to measure/document along the way (from referral through outcomes)
- How we design and deploy AAC tools and strategies?
- What we teach in our courses, workshops, classes?

Need to use current constructs!

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Communication and AAC

- Interactions are often co-constructed
- Interactants use context, multi-modalities to construct meaning
- Attentional issues are key to success
- Social-emotional factors are always present, but may <u>not</u> be acknowledged (see handout re: Development of emotional competencies and AAC.)

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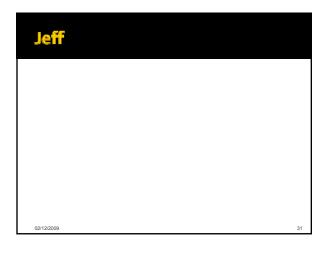
Reframing our perspective

"We must shift our focus from the specific deficits of an individual. It is conversations that are impaired, not the interactants."



Wilkins, 2004; Blackstone, Williams &

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Children with CCN and their development of competencies

- Interaction model needs to apply to children and account for developmental issues.
- Access to language and communication affects acquisition of competencies across all
- Key role of early intervention and AAC.

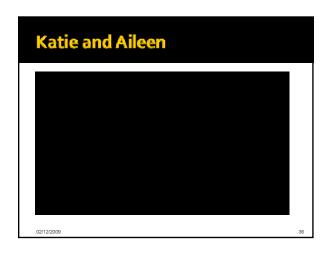
Children with CCN

- Good interactions are achievable.
- Nature of have certain characteristics
 - Quantity and quality of interactions
 - Authenticity
 - Role of partners
 - Timing
- Children who can't move, see, hear, talk, understand have limited access to context, language models, information, feedback, etc.
- More onus on partners.
 - Partners need to value all modes, establish shared attention, use past experiences, get "meta,"
- Scaffolding
- Need tools to access language and communicate successfully.
 - Tools can "get in the way"

Video clip of Katy

- 11 yo girl with C.P. attending the Bridge School.
- Communication system
 - Uses SGD: Access using head switches
 - Communication displays: Access using color coding
 - Gestures
 - Signs
 - Eye gaze
 - Vocalizations
- Interacting with teacher who knows her well and is a very competent communication partner. Teacher has an agenda, but Katy does also!
- Watch as the narrative unfolds.

Pragmatics: Sources from which we draw information to engage in succes



The Interactants

KATIE

- Has messages she wants to convey. Sets topic. Make believe.
- Uses signs, gestures, low-tech (encoded), high tech, facial expressions, body position.
- position.
 Clear preference for modes
 (and activities)
 Has many strategies.
 Deals well with breakdowns/
- misinterpretations

AILEEN

- Skilled teacher.
- Goal: Taping; what want for
- Xmas, Competent, vigilant, determined Get's attention and frames the context
- Respectful, e.g., confirms (closed
- Follows Katie's lead, e.g., her story Knows Katie's tools and
 - strategies
 - Respects choicesMisses some signs

Thinking about Language **Development**

- Usage based theory of language acquisition (Tomasello, 2003).
- Language develops in a social milieu.
 - Should be reflected in clinical practice
 - Limitations of Brown's stages
 - Tomasello, 2003ab; Bates & Dick, 2002; Slobin, 2003; Bowerman, 2000

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Michael B. Williams

What first pops into your mind when you hear the phrase augmentative and alternative communication? For many people, and I include myself in this category, AAC conjures up high-tech speech generating devices and low-tech word and alphabet boards, not to mentions the strategies and methodologies associated with the field.

What's wrong with this picture? There are no people in it.



What do we mean by CONTEXT

- Place, people, social, cultural, emotional as well as utterance-related elements.
- Relevant context defined by joint attention/ activity/goals.

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What do we mean by PRAGMATICS?

- Acknowledge that interactants use information from a variety of sources to interpret and guide action.
- Recognize that ALL utterances are constructed and influenced by skills of interactants, emotion competencies, shared reference/ experience, as well as AAC technologies, tools and strategies
- Too much emphasis in AAC on tools and technologies!!

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Defining Pragmatics in AAC

Reasoning processes used in a purposeful, goal-oriented activity that happens in and through the use of an attentionally-framed context and experience.

Wilkins, 2009

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Sources from which our pragmatics draw information from ... to reason with

Utterance: linguistic & non linguistic & context linguistic & context |
Shared knowledge/ experience |
Cultural |
Social |
Cultural |
Social |
Cultural |
C

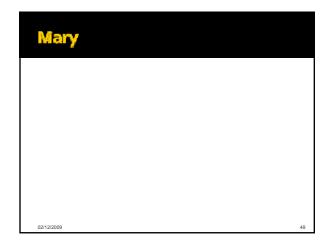
Thinking about Communication Development

- Meaning is co-constructed using pragmatics
- Interactants construct meaning using utterances in and through an attentionallyframed context by deploying pragmatics.
 - Fill in missing information based on past experiences (shared or not).
- AAC equipment/strategies can profoundly influence interactions

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Language, Communication, Pragmatics and Interactions in AAC

- DEVELOPMENT of language and communication for children with CCN should be grounded in widely accepted theoretical constructs.
- Determines
 - What's important
 - Who and what we include / don't include in our recommendations/ goals/ treatment plans /definition of success
 - What we choose to measure/document (from assessment through outcomes)
 - How we design tools and strategies?
 - What we teach others in our courses, workshops, classes?
- And so on



Interaction Model

Uses relevant theoretical constructs re:
Language, Authentic Communication
Development of Competencies;
Utterances, Joint attention, Deploying
Pragmatics to create
AUTHENTIC COMMUNICATION...
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