### AAC Intervention: A Core Vocabulary Approach to Implementation in the Classroom

By Erna Alant

A ERNA ALANT

## AAC intervention: A Core Vocabulary Approach to implementation in the Classroom

- Why are we here? Problem statement & Definition of AAC
- · What is a core vocabulary intervention approach?
- How can we implement a classroom-based core language approach?
  - How do we fit individual therapy and instruction within this framework?
  - · Explicit instruction and application (task vs relational orientation
- Monitoring progress
- Resources

#### Program

8:30-10:00: Introduction and Problem statement & Definition of

AAC and Language

10:00-12:00: What is Core Vocabulary and why is it important?

12:00-12:40: Lunch

12:40-2:30: Aided Language and Case Study on in Implementing

Core Vocabulary

2:30-3:00: Core vocabulary — Classroom Implementation

3:00-3:15: Next steps and questions

3:15-3:30: Feedback on training

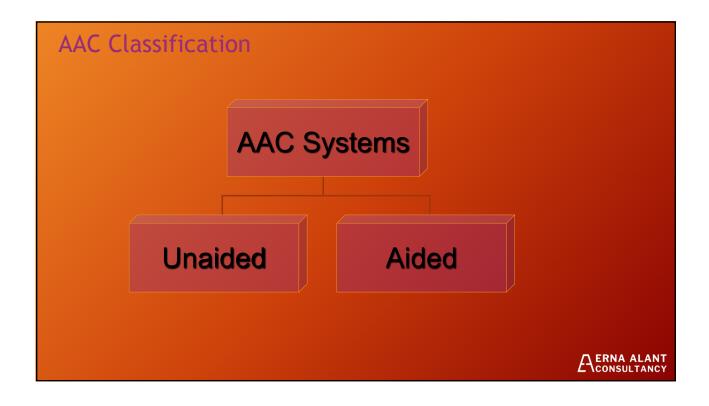
A ERNA ALANT

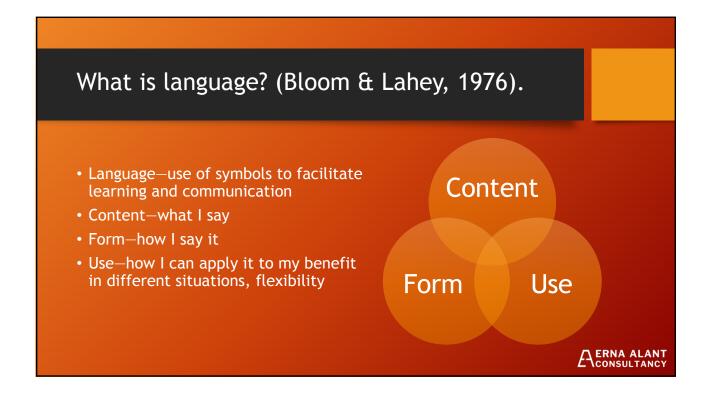
## Your experiences: Building on what we know and who we are professionally

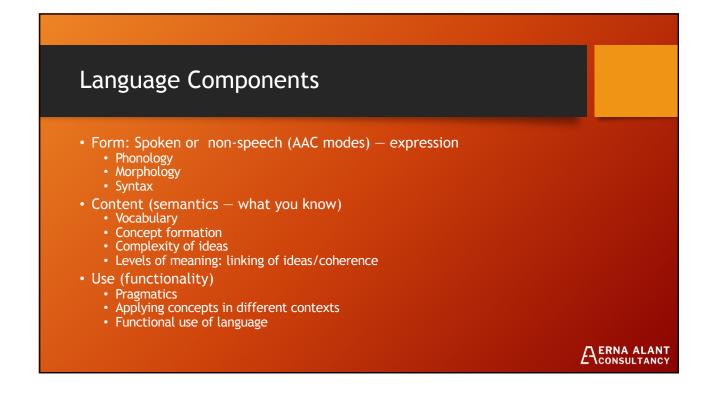
- What have been your experiences in working with students who have little or no speech (and have AAC devices or low tech) in the classroom?
- · What have you tried?
- Successes?
- Challenges?

## What is Augmentative and Alternative Communication?

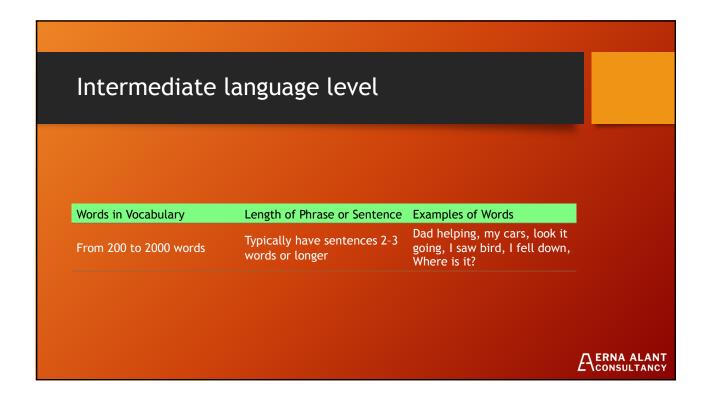
- The use of less frequently used means or modes of communication to facilitate interaction of people who have limited or no functional speech
- What does AAC include?

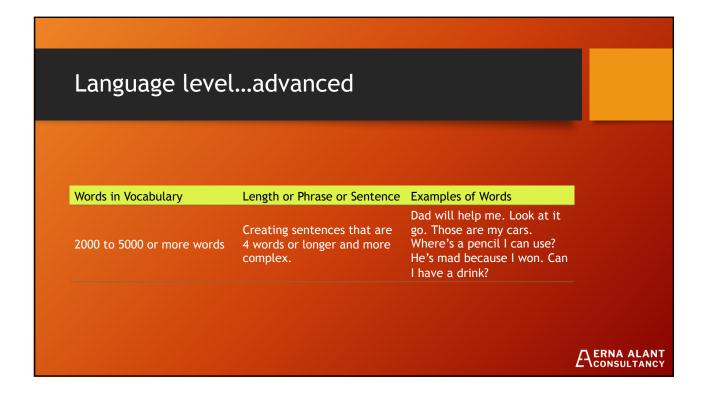












### Different Dimensions of Language Learning

- Comprehension understanding
- Expression ability to externalize ideas
- What are the challenges here?

### Hart, B & Risley, T:1995 Meaningful Differences in the Everyday Experiences of young American children. Paul Brooks, p. 176

Table 5. Averages for measures of parent and child language and test scores

Measures and scores	Families					
	13 Professional		23 Working-class		6 Welfare	
	Parent	Child	Parent	Child	Parent	Child
Pretest score <sup>a</sup>	41		31		14	
IQ score at age 3		117		107		79
Recorded vocabulary size	2,176	1,116	1,498	749	974	525
Average utterances per hour <sup>b</sup>	487	310	301	223	176	168
Average different words per hour	382	297	251	216	167	149

\*See this chapter, endnote 1, for description of the pretest and testing conditions.

<sup>b</sup>Parent utterances and different words were averaged over 13–36 months of child age. Child utterances and different words were averaged for the four observations when the children were 33–36 months old.

A ERNA ALANT

### Language Skills (Cummins, 1984)

- Basic Interactive Communicative Skills (BICS)
- Cognitive Academinc Language Skills (CALP)
  - Content, Form and Use in both contexts

### Video Observation: What are the key characteristics of this interaction?

- Interest engagement
- Rate of interaction
- Type of guidance
- Communication pressure?
- Level of Enjoyment

AERNA ALANT

### What is Core Vocabulary?

- Core vocabulary is a small set of simple words in any language that are used frequently and across settings (Cross, Baker, Klotz & Badman, 1997)
- From toddlers to seniors core words make up 80% or more of everyday communication and are the heart of language development

# Core Vocabulary for Various Populations: Great overlap!

- Toddlers
- Pre-school children
- Adults
- People who are elderly
- People with cognitive impairments
- Fluent augmented communicators

Slides 25-35: from Bruce Baker, 2009



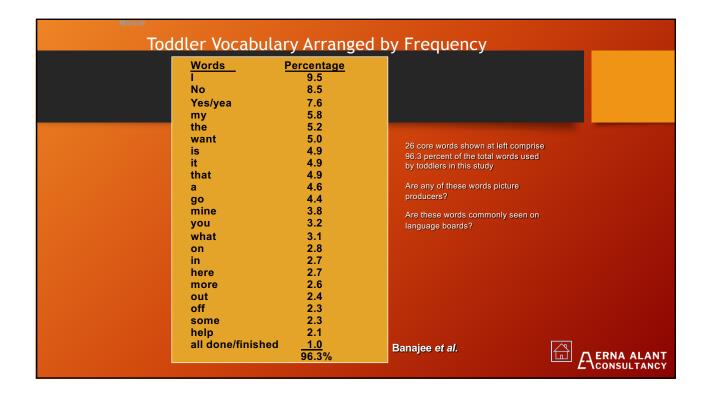
### The Vocabulary of Toddlers

- Banajee, DiCarlo & Stricklin, (AAC 2003)
  - Participants
    - 50 toddlers between the ages of 2 & 3 years
    - Thirty-four girls and sixteen boys
    - Used a variety of 2- to 3-word utterances











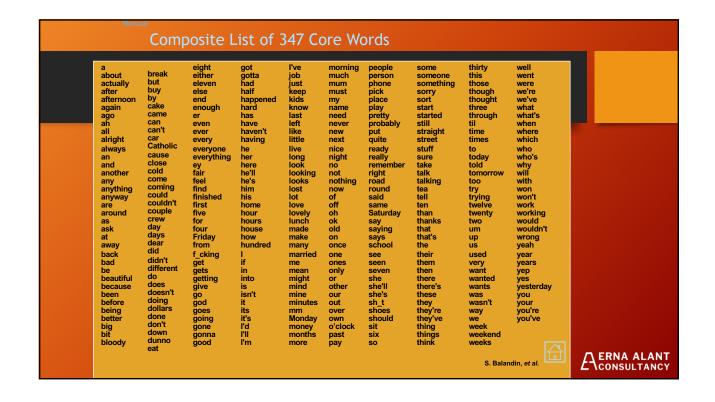
# Adult Vocabulary Usage in Sydney, Australia

#### The Balandin Sampling

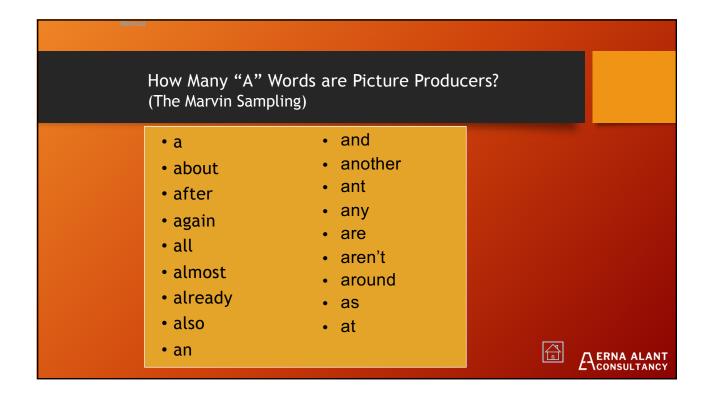
- Conversational samples were collected from 34 non-disabled subjects across four work sites.
- There was a <u>small stable core vocabulary of</u> 347 words which accounted for 78% of the conversational sample.

Susan Balandin Teresa lacono *AAC*, Volume 14, No. 3, September, 1999

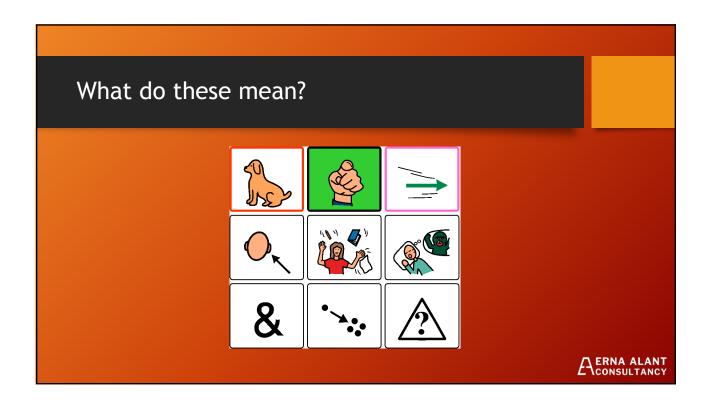


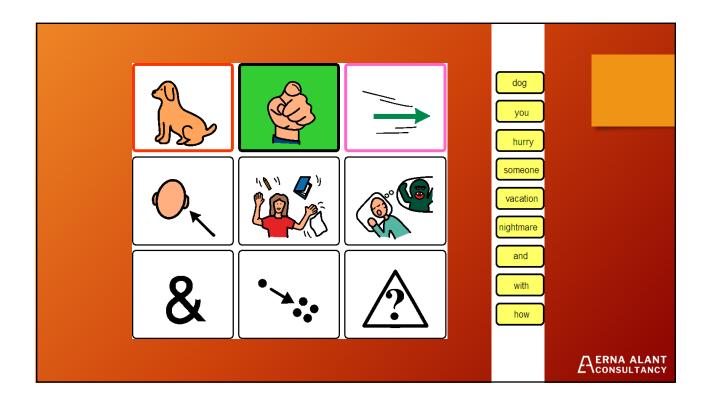


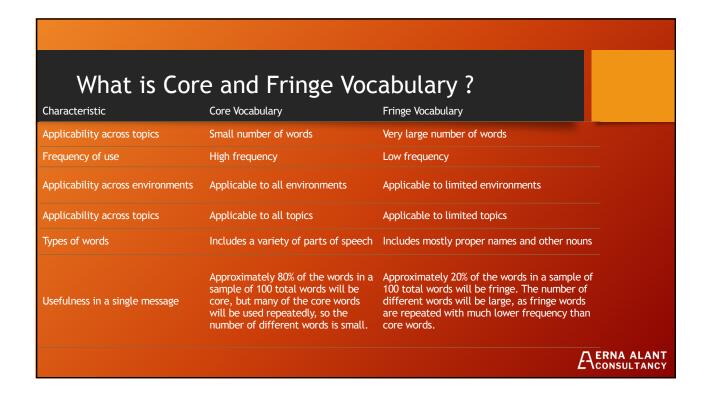












### CORE VOCABULARY — BRUCE BAKER, SEMANTIC COMPACTION

 Here is a video of Bruce talking about the Value of Core Vocabulary.

https://youtu.be/Td50csRu\_ml

 And here is a recent video of Chris Klein and the Pittsburgh AAC Language Seminar Series participants discussing "Teaching Reading First."

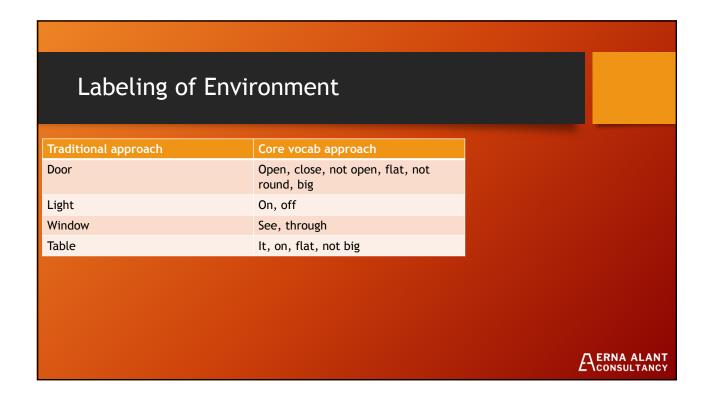
https://www.youtube.com/watch?v=ox\_sRqYfZ0M



## How is a core vocab approach different from what we have always done?

- BEFORE
  - Focus on specific vocabulary (naming and labelling)
  - Pre-recorded messages and phrases: I want to go to the toilet
  - · Get the student to "use messages": I am happy
  - Teaching vocab fringe vocabulary: what the student will need for each activity or setting
- NOW
  - Focus on most frequently used vocab
  - Focus on combining concepts and words
  - · Students compile own messages
  - Teach core vocab + fringe (in that sequence)

Labeling vs. more descriptive language use						
Traditional	Core - more descriptive in nature					
T: Where did you go? Place names (e.g. Fair).	T: What did you do at the fair?					
T: She has new? (shoes).	T: What is special about her shoes?					
T: What do you want to eat?	Tell me something about what you want to eat?					
T: What do we do next? Art.	T: What do we do when we do art?					
T: What you want to eat? Chips.	T: Tell me about what you want to eat: something Round, thin, not sweet! (descriptive)					
		A ERNA ALANT CONSULTANCY				



### What are the basics of a Core Vocabulary Approach to AAC Intervention?

- Select a core vocabulary list enough scope to not limit the child's receptive and expressive language development
- Combining vocabulary to formulate ideas: creative process of meaning-making
- Core vocabulary vs. Fringe vocabulary approach: Is it either or?

AERNA ALANT

### Examples of core vocabulary lists

- 20 location
- 30 location
- 50 location
- 135 location
- Different symbol sets

#### **Practice**

- How can I communicate using a core vocabulary communication board?
  - Please use the communication board provided and work with the person next to you.
- Guidance:
  - 1. Familiarize yourself with the vocabulary on the board
  - 2. Choose one or two concepts as a basis to create messages
  - 3. How many message could you create using these two concepts?

AERNA ALANT

### Video 1: Child 1, video 1

- What types of core vocabulary boards are they using here?
- How is she using the individual communication board with the student?
  - Input (comprehension)
  - Output (expression)
- Importance of Aided Language Input

### Video 2, Child 1

- Observations from this video?
- What Type of Activity is she using?

A ERNA ALANT

### What is Aided Language Input/Stimulation?

Aided Language Input/Stimulation is a communication strategy where a communication partner demonstrates the use of symbols and models language by simultaneously combining his or her own verbal input with vocabulary selected on the AAC system.

- https://www.youtube.com/watch?v=vUY6oQoSTXw
- https://youtu.be/flFNMky22-U

# Aided or Augmented Input: Why is it important?

- Augmented Input (Romski & Sevcik, 1996)
- Aided AAC Modeling (Binger & Light, 2007)
- Aided language modeling (Drager et al., 2006)
- Aided language stimulation (Goossens, 1989)
- Natural aided language (Cafiero, 2001)

A ERNA ALANT

#### Evidence for Impact of Aided Language Input

- Allen, A. A., Schlosser, R. W., Brock, K. L., & Shane, H. C. (2017). The effectiveness of aided augmented input techniques for persons with developmental disabilities: A systematic review. Augmentative and Alternative Communication, 33(3), 149-159.
- Sennott, S. C., Light, J. C., & McNaughton, D. (2016). AAC modeling intervention research review. Research and Practice for Persons with Severe Disabilities, 41(2), 101-115.
- O'Neill, T., Light, J., & Pope, L. (2018). Effects of Interventions That Include Aided Augmentative and Alternative Communication Input on the Communication of Individuals With Complex Communication Needs: A Meta-Analysis. Journal of Speech, Language, and Hearing Research, 1-23.

#### O'Neill, Light & Pope, 2018

- 1. AAC interventions that included aided AAC input, in isolation or as part of a multicomponent intervention were find to be highly effective across participants of various ages, disabilities and language abilities
- 2. Interventions typically is used with strategies like expectant delay, direct prompting (using different modes), contingent responding and open ended questions
- 3. Interventions are highly effective in supporting expression and receptive language abilities across all domains of pragmatics, semantics and morphology.

A ERNA ALANT

#### Conclusion

- Aided AAC input may reduce the input-output asymmetry and enhance expression and comprehension of individuals who use AAC
- More research needed on the long-term impact on language development.

### **PIXON Project — Application**

#### Case study:

You have a new child in your class (caseload) who has little or no speech: Cindy has a receptive language age of 3 years (CA: 8ys). Although she only says a few words, she shows intent to communicate.

#### Her existing communication attempts include:

- Points to what she wants.
- Screams when she is frustrated and doesn't get what she wants.
- · Verbalizes "no" and shakes her head.
- She likes to play hide and seek.

How will you use this 25 location communication board (PIXON) to facilitate her communication?



### Guiding steps:

- 1. What additional information would you like to obtain before you start with communication intervention?
- 2. Please list some target utterances using this communication board
  - · Let's focus on "it" and "get"
  - · List the types of utterances you can make using "it" and "get"
  - Keep in mind Reception and Expression and different levels of language development

AERNA ALANT

### Case study continued...

- 3. How would you use this communication board to facilitate interaction with this client?
  - What activities will you use? (games, art, cooking...etc)
  - What would you expect the child to do? Remember: Language Content, form and use
    https://tarheelreader.org
  - How will you encourage the child to use these words?
- 4. What would be the basic goals for intervention?
  - IEP goals (content, form and use)
- 5. What are the underlying issues that you would keep in mind?

# Implementation of Core Vocabulary in the Classroom: Examples

http://youtu.be/sOY6QQqhH6g

https://youtu.be/IKLclFS8GDg

A ERNA ALANT

### What do you see?

- 1. What symbol set is she using?
- 2. How is the vocabulary board constructed?
- 3. Comments about the set-up?
- 4. Comments about the activity?
- 5. What core word(s) is she focusing on?
- 6. Rate of interaction?
- 7. Comments on Monitoring of progress

# What do you need to make a core vocabulary board for the classroom?

https://youtu.be/\_ivlCrYKkC4

A ERNA ALANT

### Small group discussion

- What are the main points made in this video?
- How would you go about making a core vocabulary board for your classroom?
  - Size?
  - Where to position it?
  - Big static board + loose cards?
  - Flexibility?

# Five tips for starting with Core vocabulary implementation in the Classroom

https://youtu.be/pGw3\_Msx8S4

AERNA ALANT

### Resources — Core vocabulary

- https://www.youtube.com/watch?v=qZv8TWOy6KA&feature=youtu.be
- <u>Pixon Project:</u>
  http://www.vantatenhove.com/files/handouts/ThePixonProject.pdf
- Book: Jacobs, Jennifer (2018). Core Words for Classroom and Home. Blue Lake Publishing

### Resources — Aided language input

- <a href="http://praacticalaac.org/praactical/aac-strategies-round-up-aided-language-input/">http://praacticalaac.org/praactical/aac-strategies-round-up-aided-language-input/</a>
- <a href="https://aaclanguagelab.com/files/130627aidedlanguagestimulati">https://aaclanguagelab.com/files/130627aidedlanguagestimulati</a> onresource.pdf

A ERNA ALANT

### Questions?

• Main takeaways?

### Next time...January 31

Please write to me to give me your reflections of how this first day training impacted on your work as a SLP or teacher

- What insights did you get relevant to your own teaching or therapy context?
- What have you tried since the training? Small steps...
- What questions do you have?

Please send your reply to me by Friday January 25, at 10 pm at info@ErnaAlantConsultancy.com.

We will discuss your comments at the next training on January 31. I will send a reminder to submit your ideas by January 22.

A ERNA ALANT

### Please complete the feedback form

Thank you