

**Integrated Knowledge Translation in AAC research:
Lessons learned from 20+ years of collaboration**
(Chapple, McNaughton, & Rackensperger)

2022 AAC Doctoral Student Research Think Tank

1

David Chapple


- Co-Leader of Training and Dissemination Team for the RERC on AAC
- Vice-President of Accessible Housing (Austin, Texas)
- Employee of "Training 4 Transformation"



2

NIDILRR's Mission

to generate new knowledge and to promote its effective use to improve the abilities of individuals with disabilities to perform activities of their choice in the community, and to expand society's capacity to provide full opportunities and accommodations for its citizens with disabilities



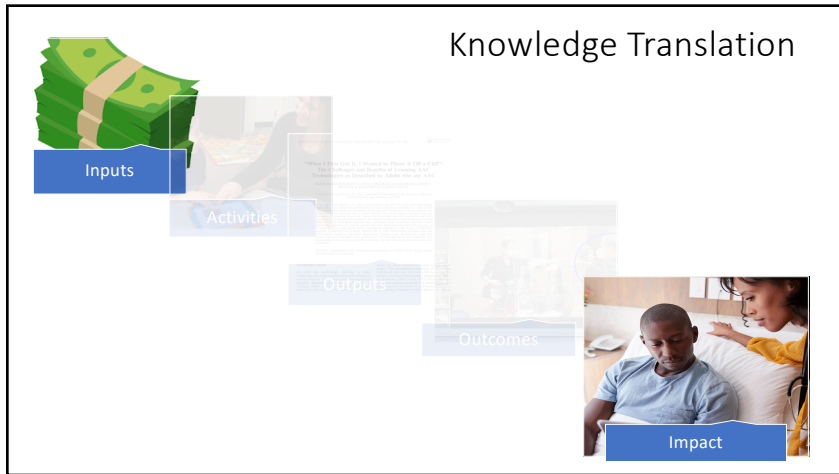
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Knowledge Translation

multidimensional, active process of ensuring that new knowledge and products gained through the course of research ultimately improves the lives of people with disabilities and furthers their participation in society (NIDILRR)

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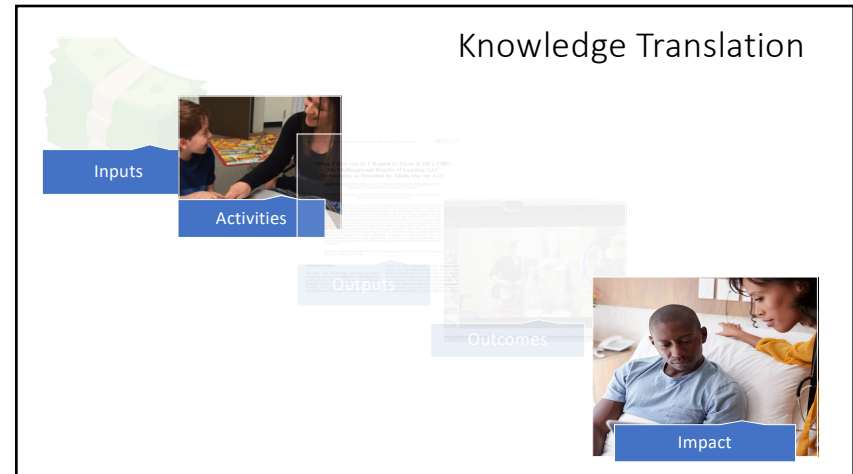
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- ### Knowledge Translation must ...
- address real issues faced by people with disabilities,
 - offer helpful information or solutions related to those issues,
 - be presented in ways that make it accessible to and feasible for the intended users, and
 - be disseminated or distributed effectively.

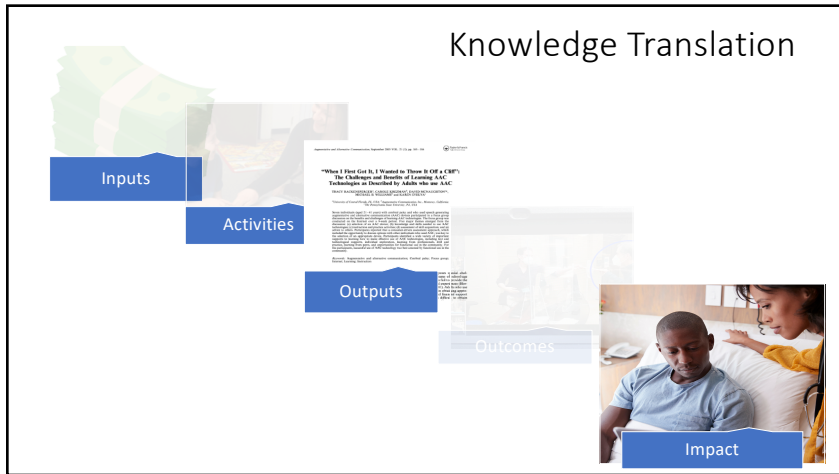
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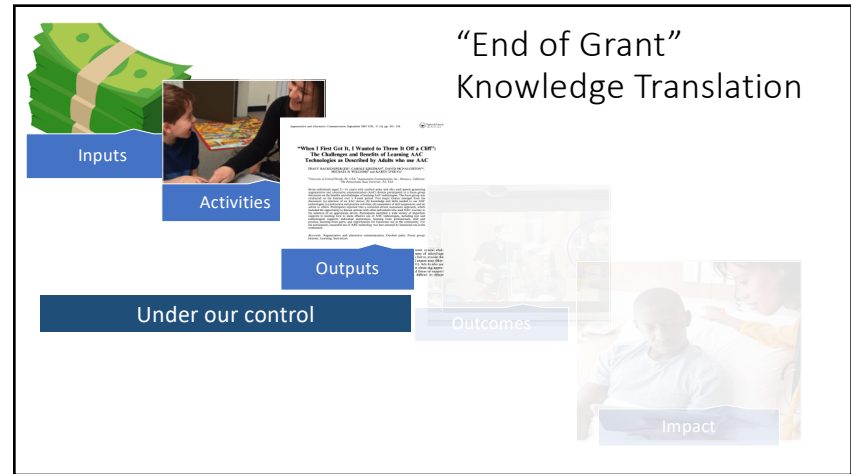
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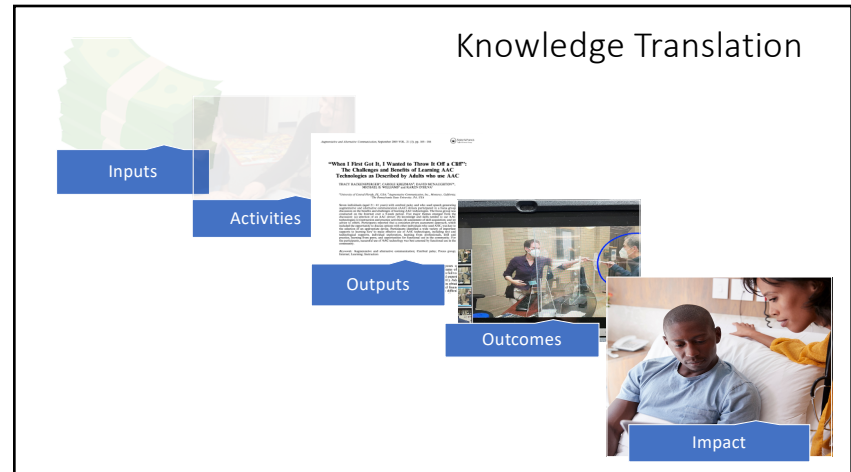




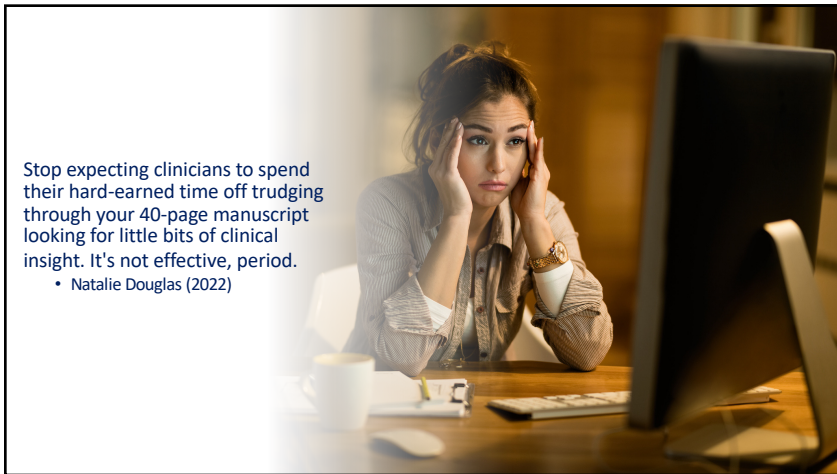
Knowledge Translation

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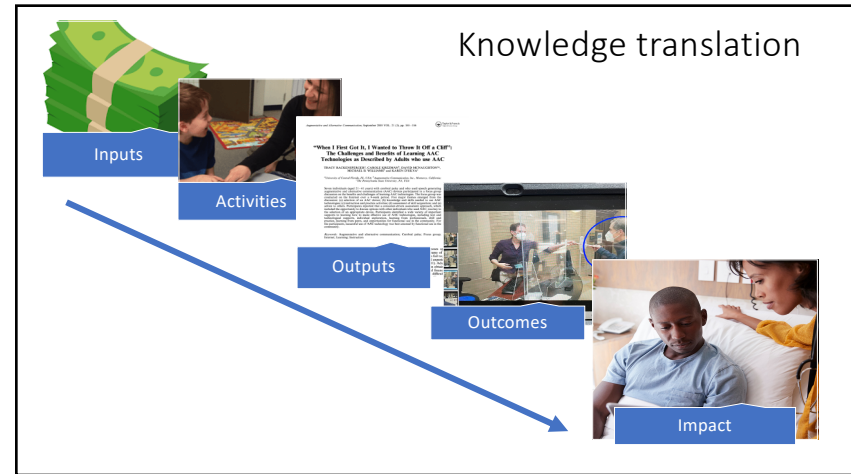
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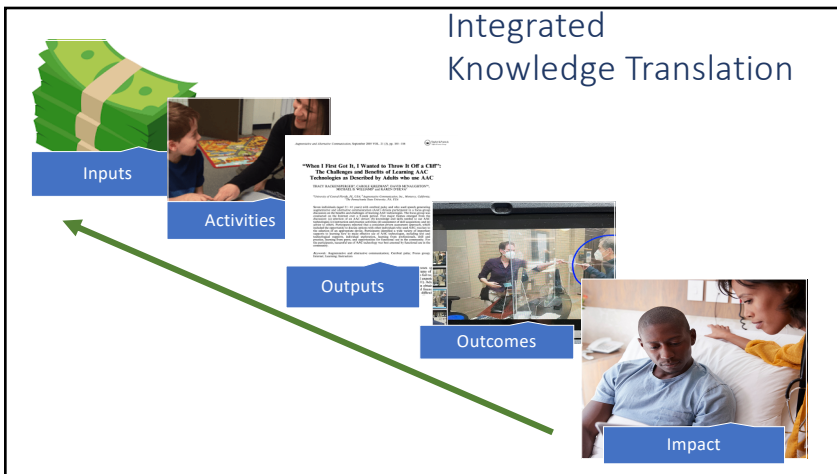
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13



14



15

Integrated Knowledge Translation

- In integrated knowledge translation, researchers and research users work together to shape the research process by collaborating to determine the research questions, deciding on the methodology, being involved in data collection and tools development, interpreting the findings, and helping disseminate the research results.
- Canadian Institutes of Health Research

16

Integrated Knowledge Translation

- The central assumption of integrated knowledge translation is that **involving knowledge users as equal partners alongside researchers will lead to research that is more relevant to, and more likely to be useful to, the knowledge users**
 - Canadian Institutes of Health Research



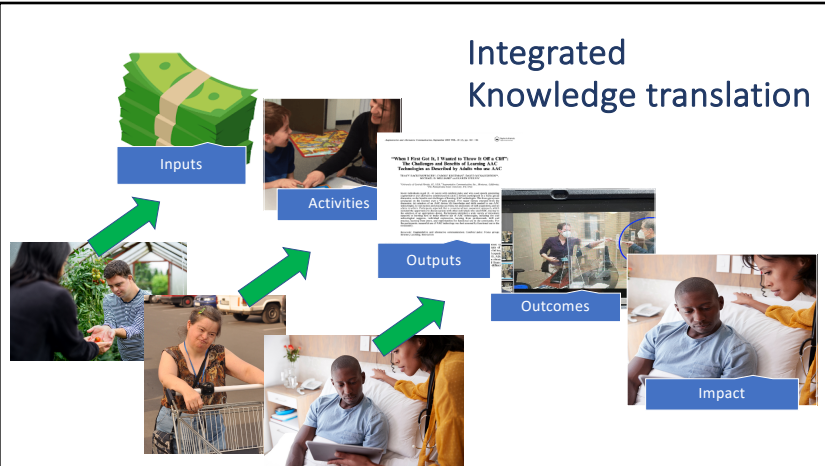
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Integrated Knowledge translation



18

Integrated Knowledge translation



19

Integrated Knowledge translation






Stakeholder identified problem?
 Multi-stakeholder research team?
 Identification of appropriate audiences?
 Contextualized message?

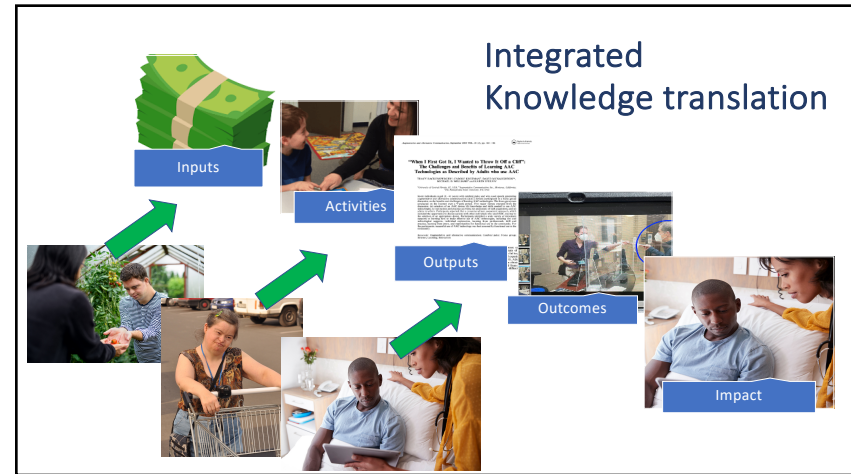
20

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21



22




Tracy Rackensperger (Ph.D)


- Co-Leader of Training and Dissemination Team for the RERC on AAC
- University of Georgia

23

Research Experiences



The abstracts include titles such as: "When I First Got It, I Wanted to Throw It Off a Cliff": The Challenges and Benefits of Learning AAC Technologies as Described by Adults who use AAC", "Home is at work and work is at home": Telework and individuals who use augmentative and alternative communication", and "A Child Needs to be Given a Chance to Succeed": Parents of Individuals who use AAC Describe the Benefits and Challenges of Learning AAC Technologies.



24

Augmentative and Alternative Communication >
Volume 28, 2012 - Issue 2

Enter keywords, authors, DOI, ORC This Journal Advanced search

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1,351 Views

7 CrossRef citations to date

1 Altmetric

Research Article

Family Influences and Academic Success: The Perceptions of Individuals Using AAC


Tracy Rackensperger

Pages 106-116 | Received 08 Feb 2011, Accepted 15 Mar 2012, Published online: 06 Jun 2012

[Download citation](#) <https://doi.org/10.3109/07434618.2012.677957>

25

AAC Consumer and Technology Forums




- Four consumer-led research projects to identify challenges and solutions to communication
 - Community participation
 - Access to healthcare
 - Employment
 - Education
 - Independent living
- Focus group and survey methods
 - current barriers
 - needed features of AAC technology solutions

26

AAC Consumer and Technology Forum: Patient-Provider Communication (2022)

- Experiences of adults with cerebral palsy who use AAC
- Key action steps to support positive outcomes



27

Recruitment

- Facebook
- Twitter
- Instagram
- Presentations

New research project: The patient-provider experiences of people with CP who use AAC

November 6, 2021 by David McNaughton



We are interested in learning more about the experiences of people who have cerebral palsy (CP) and who use AAC to communicate with medical professionals. The results of this research will be discussed at the AAC Consumer and Technology Forum at ATIA 2022, and will be used to improve service delivery and AAC technology development for persons with CP.

Who can participate?
We would like to learn from persons with CP that make use of AAC technology to communicate. This could include the use of:

- Dedicated AAC devices (e.g., PIC Accent, Saltliff NovaChat, Tobii-Dynavox i-Series, Attainment GoTalk)
- Specialized AAC apps or programs on laptops or tablets (e.g., Assistiveware Proloquo2Go on an iPad or Laptop)

28

34 participants

- **Race**
 - 29 white
 - 4 black
 - 1 American Indian or Alaska native
- **Ethnicity**
 - 32 not hispanic or latino
 - 2 Hispanic or latino
- **Language with doctors**
 - 32 English
 - 1 Russian
 - 1 English and sign language
- **Gender identity**
 - 20 men
 - 12 women
 - 2 gender fluid
- **Sexual orientation**
 - 31 straight/heterosexual
 - 1 bisexual
 - 1 gay
 - 1 asexual

29

Surveys

- 5 surveys using Google forms
- 34 respondents

Patient-Provider Communication - Survey 2

Thank you for your participation. This is Survey 2 of 4 surveys.

Survey 2 asks about your communication experiences with medical providers, and what advice you would give someone who is preparing to meet with medical providers.

You can use the "tab" on your keyboard to move between questions and response options. Hitting the "space" bar will select (or deselect) a response option. If you have any technical difficulties, please email David McNaughton at dbrn7@osu.edu

30

Interactions with medical providers

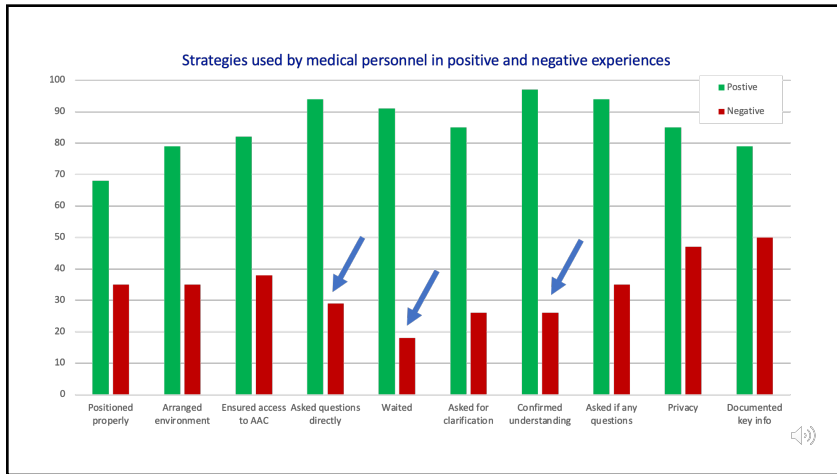
Most positive experience

31

Partner strategies (most used)

• Made sure you were positioned appropriately	• Asked for clarification when they did not understand a message
• Arranged the environment so it was quiet and your AAC system could be heard	• Confirmed their understanding of your message – 97%
• Made sure you had access to your AAC system	• Asked if you had any questions for them – 94%
• Asked questions directly to you (e.g., not your PCA) – 94%	• Worked to make the conversation private, as appropriate
• Waited while you prepared your response or used your AAC system	• Documented key information (e.g., key information was sent electronically)

32



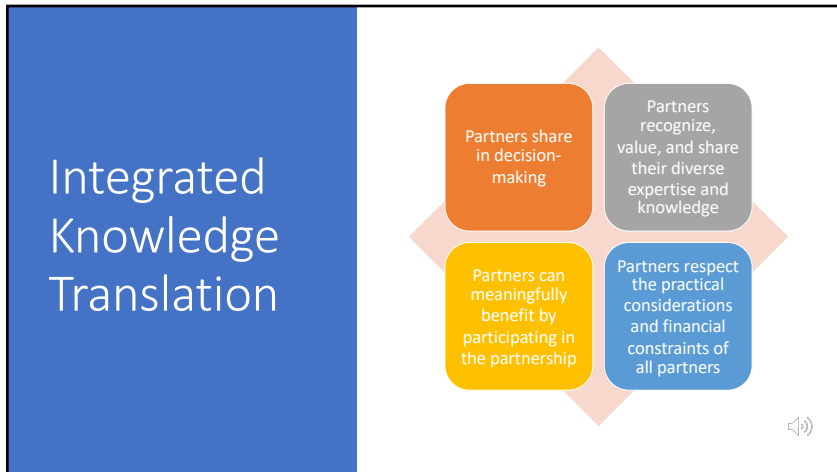
33

"Make them see you as a person":
 Recommendations for
 Improving Patient-Provider Communication
 from Adults with CP who use AAC

David Chapple, David McNaughton, Tracy Rackensperger
 Karley Baker & Madison Cherry

ATIA 2022

34




35

Tracy Rackensperger (Ph.D)

- Co-Leader of Training and Dissemination Team for the RERC on AAC
- University of Georgia

36



Integrated Knowledge Translation

Nothing about us, without us



37

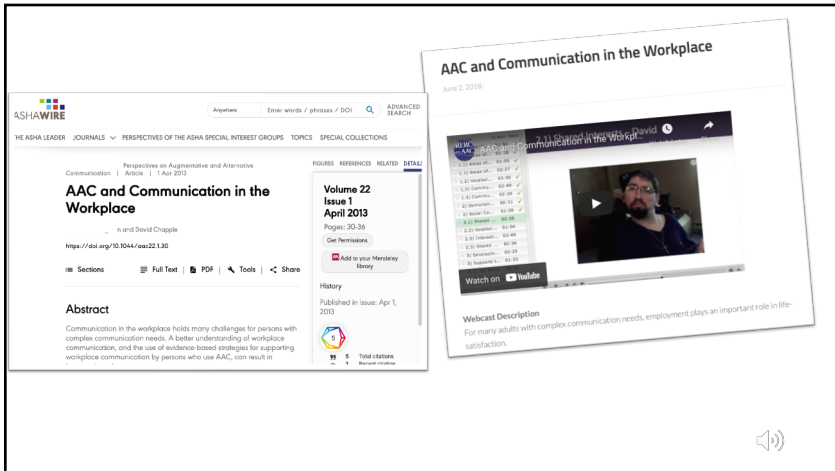


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38



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Communication Perspectives on Augmentative and Alternative Communication Article | 1 April 2013

AAC and Communication in the Workplace

by David Chapple

<https://doi.org/10.1044/aw22.1.30>

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History Published in issue: Apr 1, 2013


FIGURES REFERENCES RELATED DETAILS

Volume 22 Issue 1 April 2013 Page: 30-36

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Watch on YouTube

Webcast Description For many adults with complex communication needs, employment plays an important role in life-satisfaction.



39

David Chapple's Blog

Speaking with Professionals - Alternatively

Dr. Joe Urquidez



Dr. Joe Urquidez (Dr. Joe) is the Medical Director and founder of the Physical Medicine and Neurotoxin Institute where he specializes in the use of Medical Botox and Botulinum Pump Management. His clientele is primarily people who have cerebral palsy, stroke patients and brain injury. Currently Dr. Joe treats about five patients who communicate exclusively with AAC and another fifteen who speak as much as possible and use AAC for clarification.

The biggest challenge interacting with patients who use AAC according to Dr. Joe is the time it takes to communicate. Most physicians

Anthony Arnold



Anthony Arnold uses an Accent 1400 with Unity 144 sequenced and the built-in word prediction system. Other times he uses the LAMP Words for Life app or a couple of different word prediction apps loaded on his iPad and iPhone for more portable communication. He went on to say:

Karina Arellano



As a Certified Nursing Assistant (CNA) Karina Arellano started working in a nursing home about three years ago. Currently, while pursuing a Criminal Justice degree she is working as a Personal Care Assistant for two individuals who use AAC. To be specific, they both use an Accent 1400. She works with them from Monday to Friday.



40

Supporting Patient-Provider Communication

Dashboard Courses Available Modules Patient-Provider Communication

Welcome!

Effective communication between patients and healthcare providers is essential for positive outcomes. In this module you will learn the FACT strategy (Focus, Address, Track, and Review, 2016), which includes 8 action steps to help support positive medical encounters for persons with complex communication needs.

In this module you will see how FACT can be used to support positive outcomes for:

- Case Study 1:** Dave, an adult with cerebral palsy, a co-leader of the RERC on AAC Educational Team, and a co-author of this module. Dave will describe his development of a communication passport to improve communication outcomes.
- Case Study 2:** Miam, an autistic adolescent and talented artist, as she prepares for a dentist appointment. The use of visual schedules, social stories and other comprehension supports help to create a more positive communication experience for Miam.
- Case Study 3:** Mark, as he recovers from an accident in the hospital. This case illustrates the importance of immediately providing communication supports when an individual has lost the use of speech.

41

AAC Learning Center Moodle

Available courses

- AAC for Children - An Introduction**
Augmentative and Alternative Communication (AAC) supports communication for children who have difficulty with speech.
- Alternative Access**
Alternative access provides methods and strategies to enable people with disabilities to access technology.
- Developing AAC Systems for Children**
AAC systems should be based on the knowledge, skills, and interests of the individual child, and support participation in a wide variety of activities.
- Family-Centered Skills: Active Listening for SLPs**
The use of family-centered skills, including active listening, result in positive relationships with family members and improved outcomes.

42

Patient-Provider Communication

HOME PAGE TOOLS & RESOURCES CASE STUDIES ACCESS AND REVISIONS THE PFC FORUM COVID-19 POLICY CONTACT US

FREE COVID-19 COMMUNICATION TOOLS & RESOURCES

- FREE
- READY TO USE
- SINGLE PATIENT USE
- PATIENT DIGNITY

PATIENT-PROVIDER COMMUNICATION
Tools for Speech-Language Pathologists and Other Health Care Professionals

SARAH W. BLACKSTONE
DAVID R. BETZALEMAN
KATHRYN M. YORKSTON

43

Interacting with Healthcare Professionals

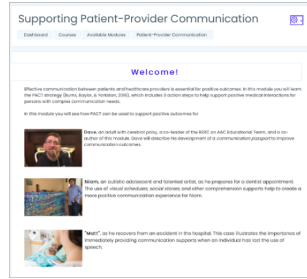
- Almost 20% of admissions result in harm
 - Over 60% were preventable
- Patients with communication challenges are 3x more likely to experience an adverse event

WHAT IS MY PROGNOSIS?	
WHAT WILL HAPPEN NEXT?	
I'M IN PAIN.	
WHAT ARE MY OPTIONS?	
I WANT TO DISCUSS MY OPTIONS.	
I HAVE ANOTHER QUESTION.	

44

Supporting Patient-Provider Communication

- P** Prepare for the visit
- A** Ask questions
- C** Create a plan
- T** Take away material



45

45

<https://aac-learning-center.psu.edu/moodle/supporting-patient-provider-communication/>



- 330 students & faculty have completed the training
- 12 universities



Stroschein, Baker, Chapple, & McNaughton (ATIA, 2022)

46

46

David Chapple

- ✓ Making a difference
- ✓ Working remotely
- ✓ Payment for work
- ✓ Support to present at conferences



47

47

David Chapple

- ✓ Making a difference
- ✓ Working remotely
- ✓ Payment for work
- ✓ Support to present at conferences
- Paid as a contract worker
- Impact of pandemic on live interaction



48

48

David Chapple

- ✓ Making a difference
- ✓ Working remotely
- ✓ Payment for work
- ✓ Support to present at conferences


- Paid as a contract worker
- Impact of pandemic on live interaction

- Get budgets in place quickly
- Truly consider how to develop collaborations with people who use AAC



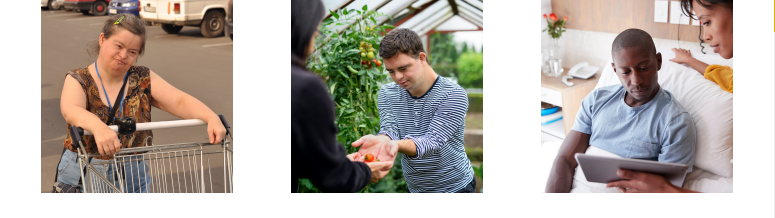
49

AAC research must contribute to meaningful outcomes for people who use AAC



50

Knowledge Translation



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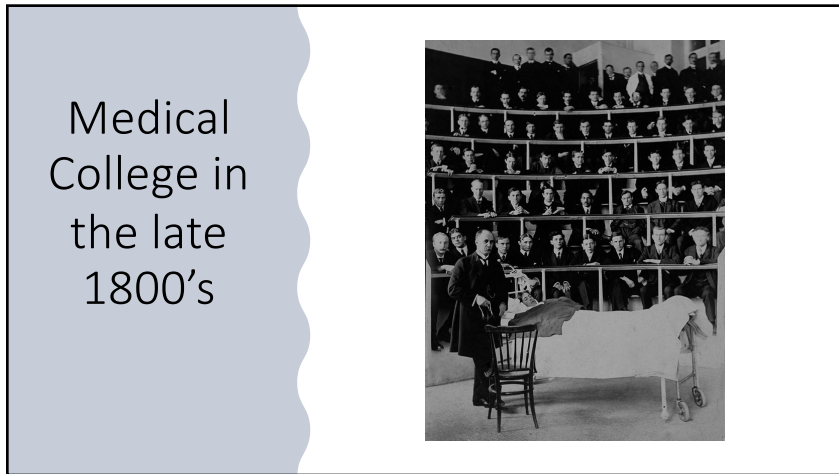
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Integrated Knowledge translation



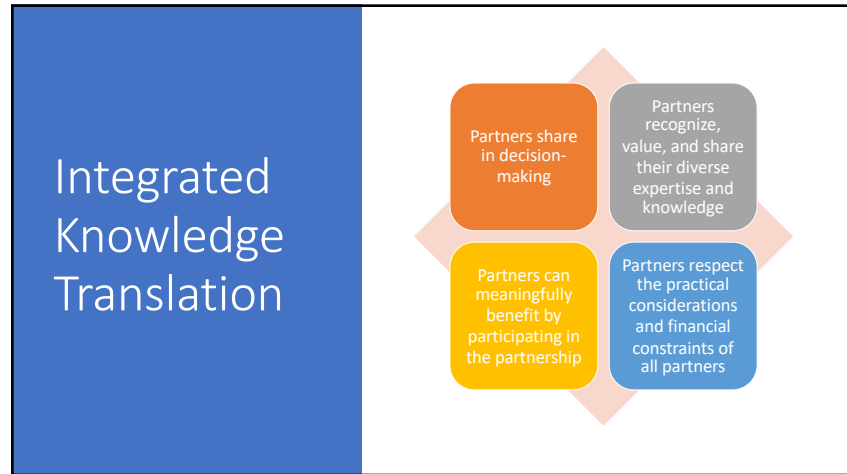
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52



Medical College in the late 1800's


53




54

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- We are also grateful to the Hintz Family for their support of the AAC Doctoral Student Think Tank through the Hintz Family Endowed Chair in Children's Communicative Competence.



55



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56