

### Implementing ADEPT-CARE as a Novel Teaching Tool to Improve Medical Education

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**Publications**: Smeltz L, Carpenter S, Benedetto L, et al. ADEPT-CARE: A Pilot, Student-Led Initiative to Improve Care for Persons with Disabilities via a Novel Teaching Tool. *Disability and Health Journal*. 2023:101462.

Smeltz, L., Carpenter, S., Benedetto, L., Newcomb, N., Rubenstein, D., King, T., Lunsford, C., Shaw, T., DeWaters, A. Introduction to Disability and Anti-Ableist Healthcare: A Pilot, Student-Led Module for Preclinical Medical Students. Am J Phys Med Rehabil. 2024 Jan 12. doi: 10.1097/PHM.0000000000003399. Epub ahead of print. PMID: 38261784.

**Prior Presentations**: DAC Med Conference (15 October 2022) and American Academy for Cerebral Palsy and Developmental Medicine Annual Meeting (22 September 2022) - Both of these presentations were educational and void of data.

Association of Academic Physiatry Medical Student Council May Journal Club - Medical Education; Smeltz, L., Churukha, C., King, T., Newcomb, N., & DeWaters, A. (5 November, 2023). "ADEPT-CARE" for Disabled Patients: Continuing Medical Education for Patient-Facing Employees. AAMC Learn Serve Lead Conference.; Smeltz, L., Churukha, C., King, T., Newcomb, N., & DeWaters, A. (18-20 October, 2023). "ADEPT-CARE" for Disabled Patients: CME for Academic Medical Center Patient-Facing Employees. AMA Abstract Research Challenge - Poster Symposium Hall. Virtual. Member Site, Underline Science Inc. DOI: 10.48448/xfka-9a66.



## Objectives

- (1) Describe how ADEPT-CARE was developed
- (2) Provide an overview of the ADEPT-CARE Protool
- (3) Describe implementation amongst PSCOM and PSH
- (4) Results of initial implementation
- (5) Next Steps & Involvement



# What is the problem? State of Medical Education & Disability Health

- Only 52% of accredited MD and DO schools include "disability awareness" in their curriculum<sup>1</sup>
- 80% of medical students at one institution felt their disability education was inadequate<sup>2</sup>
  - Specific discomfort with H&P
- Lack of available, standardized, comprehensive resources

 Goal: To develop, pilot, and evaluate a novel teaching mnemonic (ADEPT-CARE) for performing a comprehensive H&P for disabled patients

1 loerger M, Flanders RM, French-Lawyer JR, Turk MA. Interventions to Teach Medical Students About Disability A Systematic Search and Review. *American Journal of Physical Medicine & Rehabilitation*. 2019;98(7):577-599; 2 Chardavoyne PC, Henry AM, Sprow Forté K. Understanding medical students' attitudes towards and experiences with persons with disabilities and disability education. *Disabil Health J*. 2022;15(2):101267.



### **ADEPT-CARE Development**

- Inter-institutional collaboration, importantly
  - **with involvement** from disabled medical students and mentors
- Leveraged ADHCE Core Competencies on Disability and National League for Nursing materials
- Created a mnemonic → "ADEPT-CARE"

#### Pearl:

Medical Students are capable of creating change at their own institutions and other institutions.



summary of the ADEPT-CARE pro				
Letter	Recommendation			
Α	Ask about <b>Access</b> needs			

L. Smeltz, S. Carpenter, L. Benedetto et al.

<b>Accommodations</b> in the healtho
environment

**Defer** to the **Disabled** person

Engage with the patient

Р Promote Participation and Patient-Centered care

T Take Time for a Thorough medical history and physical exam

· Respect boundaries. Adaptive and assistive devices, such as wheelchairs and service animals, are an extension of a person with a disability. You should not touch these devices or attempt to help a disabled person without first asking for consent or permission. • Perform a comprehensive physical exam. Avoid examining a patient in their wheelchair as this may lead to an incomplete exam. • Disparities in physical, sexual, reproductive, and mental

Description & problem representation

common and mitigatable.

not consistently utilized.

medical record for future visits.

enhanced patient-centered care.

• Talk directly to the disabled person.

accompanying them to the appointment.

communication board, or other tools.

Speak in the same manner, tone, and volume.

disabled person)

recommendations.

speaking/non-verbal

· Accessibility-related barriers to healthcare, especially

• There is a lack of accessible medical diagnostic

 Consider access needs related to interpreter services. physical facility accessibility, medical equipment, medical forms, time, face masks, services animals, assistive technologies, transportation, and scheduling. • When appropriate, document accommodations in the

 Inquiring about a patient's disability status and/or identity can build rapport and allow one to provide

• When meeting someone for the first time, default to person-first language (i.e., a person with a disability). • Some patients may prefer identity-first language (i.e., a

· Use the patient's language preference after inquiring.

• Avoid directing the conversation at whomever may be

• Communicate as you would with a non-disabled patient:

• Effective communication lets disabled patients know you

• Communication may be supported by an interpreter,

• Promote patient autonomy by engaging with the patient.

even if they are accompanied by someone or are non-

• Consider the use of shared or supported decision-making.

are attuned to their concerns and needs which increases the likelihood of seeking care and following through with

equipment. When accessible equipment is available, it is

transportation and communication barriers, are

• It is okay to ask a patient about their disability.

Disability and Health Journal xxx (xxxx) xxx

· What can we do to make your visit to our clinic

Did you have any difficulty accessing the clinic

• Did you find our scheduling system accessible?

How do you explain your [disability/diagnosis] to

• How does your [disability/diagnosis] affect you?

preferred

Do vou need any accommodations for

. I'm sorry, I don't think I understood you. Let me

• Are you comfortable with everyone here being

• Do you need assistance with dressing or getting

• Do you need a lift to help you transfer to the exam

• What is the best way for me to do this [exam

• Is there any [exam maneuver] or body area I

should avoid? Is there anything I should be

aware of before I perform [exam maneuver]?

try explaining this in a different way.

present for our discussion?

table for the physical exam?

What is the best way to help you?

• May I move your belongings for you?

method

Sample questions/statements

more accessible to you?

today?

What is your

communication?

communication?

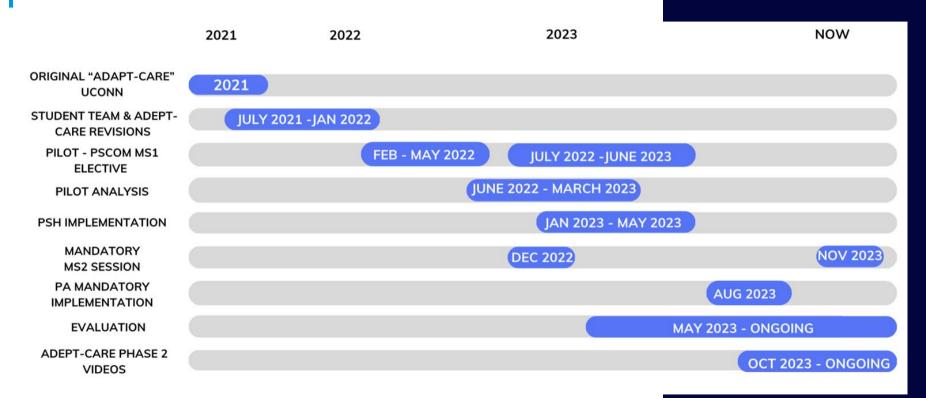
onto the table?

health are stark for disabled patients. Do not skip any parts of the history or exam. • As with non-disabled patients, variable clinical encounter

lengths are inherent to medical practice.

Α	Ask about Access needs and Accommodations in the home and community	<ul> <li>People with disabilities are disproportionately exposed to risk factors for preventable health conditions, manifesting in increased prevalence of chronic conditions, such as cardiovascular diseases, diabetes, obesity, and depression.</li> <li>These co-existing conditions are further exacerbated by physical inactivity and mental health conditions, which have increased prevalence among the disabled community and are major risk factors for chronic disease.</li> <li>Both disabled men and women are at a higher risk of experiencing sexual violence, sexual coercion, and unwanted sexual experiences.</li> <li>Some disabled people may be more vulnerable to abuse due to the need for personal assistant and personal caregiving.</li> <li>Healthcare providers are mandatory reporters for abuse or neglect.</li> <li>When assessing social determinants of health and social needs for people with disabilities inquire about the accessibility of community-based resources and accommodations.</li> <li>Transportation barriers affect access to society, physical activity sites, grocery stores, pharmacies, social support, and more.</li> </ul>	<ul> <li>Have you ever felt unsafe with a caregiver or other person in your life?</li> <li>Has anyone forced you to have sexual activities?</li> <li>Has anyone forced you to have sexual activities?</li> <li>Has anyone ever prevented you from using an assistive device?</li> <li>Has anyone you depend on refused to help you?</li> <li>What accommodations [modifications, supports] do you have at home?</li> <li>Do you have home modifications?</li> <li>Tell me about the community where you live.</li> <li>Do you have personal care assistance?</li> <li>How long have you had your current [assistive device]?</li> <li>(continued on next page)</li> </ul>
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L. Smeltz, S		ARTICLE IN PRESS	Disability and Health Journal xxx (xxxx) xxx
		ARTICLE IN PRESS  Description & problem representation	Disability and Health Journal xxx (xxxx) xxx  Sample questions/statements
Table 1 (c	ontinued )		

#### A Brief History of ADEPT-CARE





## **Implementation Details**

	Penn State COM Pilot - Spring 2022	USF	PSH	Penn State COM Current
Year in Training	First-year medical students	Medical students and residents	All patient-facing employees voluntarily invited to participate	First-year medical students Second-year medical students First-year Physician Assistant students
Number of Participants	33 pre-survey responses 21 post-survey responses	47 pre-survey responses 42 post-survey responses	14,000	All [Mandatory Session(s)]
Implementation Environment	"Flex Hours" within Health Systems Science course Asynchronous, self- paced	Online, self-paced, stand-alone	Asynchronous module/video	MS1 - asynchronous module/video MS2 - In-person with panel PA - asynchronous module/video



#### **ADEPT-CARE** Results

#### First-Year Medical Students

- ALL (100%) of student participants reported (agree/strongly agree)...
  - That they will use ADEPT-CARE to assess patients with disabilities
  - ADEPT-CARE will help them to take better care of patients with disabilities
  - A desire to receive more training on disability

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#### **PSH Patient-Facing Staff**

- Nearly all participants agreed that the ADEPT-CARE module...
  - Increased their confidence in caring for PWD (N = 1,396, 93.1%)
  - Improved their knowledge of disability health (N = 1,425, 94.6%)
  - Will help them take better care of PWD (n = 1,463, 96.5%)

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### Recap & Progress Thus Far

- Pilot PSU results were promising! → manuscript published
- Assess generalizability with USF data analysis → manuscript in process
- Assess generalizability with other health professions students, i.e. nursing students, physician assistant students, etc. → data collected, analysis in process
- Assess efficacy and generalizability with practicing healthcare professionals
   → data analysis phase
- Continue to promote ADEPT-CARE as a valuable teaching tool → ongoing



#### More Analysis & Results Coming Soon!





#### **Next Steps**

- Evaluation of PA data & manuscript writing
- PSH data manuscript writing
- Longitudinal data evaluation with students
- Development of phase II videos → focused on pediatrics patients and patients with I/DD
  - ARC of PA partnership
- Curriculum sustainability
- Curriculum dissemination
  - Institutional partnerships
  - DIT
  - Academic conferences/presentations
  - Community presentations



## Summary

- Goal: To develop, pilot, and evaluate a novel teaching mnemonic (ADEPT-CARE) for performing a comprehensive H&P for disabled patients
- Fills a reported gap in medical education → directly address students' discomfort performing an H&P with disabled patients
- ADEPT-CARE has the potential to be an easily understandable teaching tool
- Could be effectively and flexibly implemented into medical education





### Thank you!

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