Heartland Innovations in Interprofessional Practice and Education Summit • July 17-18, 2025 ONLINE  Transforming Futures: Innovation and Disruption in Interprofessional	
Health Care and Education  Des Moines   University	
MEDICINE & HEALTH SCIENCES	
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Occupational Therapy and Pharmacy IPE Roles in	
Medication Management for Neurodiverse	
Populations	
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Disclosure	
I do not have any financial relationships with ineligible companies to disclose.	
companies to disclose.	

## What is First Place?



A residential facility for the young adult neurodiverse (ND) population, such as Autism, focused on developing independent living skills for the first time

UNIVERSITY

School of Pharmacy and Health Professions

Community collaboration established in 2021 between Creighton and First Place
 Resident ne ed for medication management skills
 Started with OT and Pharmacy, added PT in 2024

# Interprofessional Event

Held 2-3 times each semester at First Place or Creighton

Faculty Mentors

Student Ambassadors Lead and create activities for small group presentations
Student mentors during consultations



**Ambassador Led Presentation Topics** 

How to speak with health care professionals about medications

Side effect management

Traveling with medications

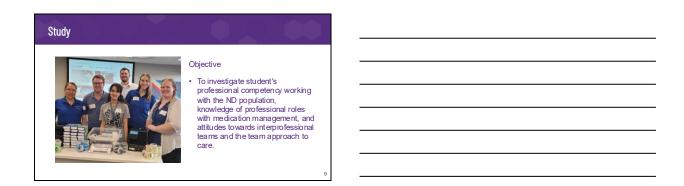
Reading Medication Labels



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Day of Event	$\mathbb{U}_{\lambda}$				
Orientation/ Pre-brief  • Facility Tour  • Ed ucation on:  • Roles of OT, Pharmacy, PT  • Neuro diverse populations	Small Gr Activit  • Education ba activity relate medications • Builds rapp • Goal is interaction	ssed • Stud- interverse id eort team	/iew entsasa	New le     Take a	

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Study						
Methods						
<ul><li>Pre and post survey</li><li>Studen ts a ttending ever</li></ul>	ents du	uring 2	2023-2	2024		<ol> <li>I am confident in my ability to work with a neurodivergent population to maintain a climate of mutual respect and shared valued.</li> <li>I am confident in my ability to use the knowledge of my profession's role to plan patient care for a neurodivergent population.</li> <li>I am confident in my ability to communicate effectively with a</li> </ol>
Adapte d Simko, et. al. (     assessment     IP assessment – SPICI		) profe	essio r	nalrol	е	neurodivergent client/resident.  4. I am confident in my ability to collaborate in a health care team to plan, deliver and evaluate care for the neurodivergent population.
IF ASSESSIFIED — STOCK INSTRUCTIONS: Thene be candid as you indicate the extent of your disagreement spreament with each of the following statements related to interpreferoismal teams and the torus approach for care.	Strongly Disagnor (I)	Dhagrae (2)	Newtral (3)	Agree (4)	Strong) Agror (5)	Of Occupational Therapy Students  1. The role of an occupational therapsit is very important in pattent/client medication management.  2. How the sele of an occupational therapsit in medication management.
Working with students from different dissiplines orkinates tay education     My role within an interprefessional term is clearly defined.	1	2	3	4	5	The role of the pharmacist is very important in patient/dient medication management.     Hance the noise of the pharmacist in medication management.     Of Pharmacy Students
Patient ident satisfaction is improved when our is post delivered by an interprefessional team     Participating in obsertional experiences with student from different dissiplines subsense my shelly to work on an interprefessional team.	1	2	3	4	5	The role of the pharmacal is very important in patient/dismt medication management.     It loove the mile of the pharmacal is medication management.     The role of an occupational therapts is very important in patient/client medication management.     It loove the role of an occupational therapts in medication management.

## Results - Demographics

### Participants:

- 11 OTS (47.8%), 12 RXS (52.2%)
- 10 in 1<sup>st</sup> year of program, 13 in 2<sup>nd</sup> year

## Previous experience with ND populations:

- None: 4 (17.4%)
- Exposure with family, friends, colleagues: 13 (56.5%)
  Exposure through work in medical/community settings: 15 (65.2%)
  Identify as being neurodivergent: 1 (4.3%)

## Results - Professional Competency with ND Population

Overall, confidence (M = 13.18, SD = 1.50) was significantly higher than before (M = 15.59, SD = .73), t(21) = 8.056, p = < .001.

- Student confidence was significantly higher in ability to:

  Work with a ND population to maintain a climate of mutual respect and shared values, p = .008
- Use knowledge of their profession's role to plan patient care for a ND population, p = <.001
- Communicate effectively with a ND dient/resident, p = <.001 Collaborate in a health care team to plan, deliver, and evaluate care for the ND population, p = <.001

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Overall knowledge of professional roles (M = 17.77, SD = 3.39) was significantly higher than before (M = 18.91, SD = 3.42), t (21) = 4.568, p =

- Student agreement was significantly higher in:
  The role of an OT is very important in patient/client medication management, p = .025
   I know the role of an OT in medication management, p = <001</li>
   I know the role of the pharmacist in medication management, p = .011

## No significant difference in:

The role of the pharmacist is very important in patient/client medication management, p = .655

## Results - Attitudes toward IP Teams

Attitudes towards interprofessional teams (M=43.61, SD=7.13) were significantly higher than before (M=47.28, SD=3.44), t (17) = 2.807, p = .012. Significant difference in SPICE-R2 core competencies:

[T] Interprofessional teamwork and team-based practice: None

[0] Patient outcomes from collaborative practice

Healthcare costs are reduced when patients/clients are treated by an interprofessional team, p = .018

- [R] Roles/responsibilities for collaborative practice

  My role within an in terprofessional team is clearly defined,  $\rho$  = .011

  I have an understanding of the course state in by, and training requirements of other health professionals,  $\rho$  = .013

  I understand the roles of other health professionals within an interprofessional team,  $\rho$  = .004

The factor [R] did d emonstrate significant difference for pre- (M = 12.65, SD = 1.63) and post-event (M = 14.10, SD = 1.17), t (19) = 4.781, p = <.001.[T] and [O] did not.

## Conclusion & Future Implications

OT and Pharma cystudents demonstrated

- Increase d confidence in their professional competency working with the ND population
- Increase dkn owledge of OT and pharmacy's role in medication manage as well as OT's importance
- Improved attitude towards IP teams, especially regarding roles/responsibilities for colla borative practice



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Hotez, E., Rava, J.A., Shea, L., & Kuo, A. (2023). Developing "Adulting for health": Investigating the health needs of Neurodivergent Emerging Adults. Cureus. https://doi.org/10.7759/cureus.41102

Simkq L. C., Rhodes, D. C., McGinnis, K. A., & Fiedor, 1 (2017). Students' perspectives on interprofessional teamwork before and after an interprofessional pain education course. American journal of pharmaceutical education, 81(6), 104.

Schwartz, J.K. (2022). Guidelines for Medication Education for occupational therapists. *The Open Journal of Occupational Therapy*, 10(1), 1–8. https://doi.org/10.15453/2168-6408.1851

Zorek, J.A., File, D. S., Eickhoff, J.C., Engle, J. A., MacLaughlin, E. J., Dominguez, D. G., & Selbert, C.S. (2016). Refinament and vial data on of the student perceptions of physical annabation interprofessional dinital education instrument. *American journal of pharmaceutic deucation*, 20(3), 47.

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