Zooming in on Interprofessional Practice Opportunities through Experiences in Service-Learning

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BACKGROUND

To prepare students to enter the occupational therapy (OT) and speech-language pathology (SLP) workforce, servicelearning courses offered in graduate program curricula provide students with opportunities to engage with clientele in various settings and contexts. Ohio State's occupational therapy doctorate curriculum introduces students to the skills needed to deliver evidence-based, client-centered care to patients with diverse health and sociodemographic backgrounds. Through a partnership with the OSU Aphasia Initiative, OT students have the opportunity to learn about acquired neurogenic communication disorders through collaborations with faculty and students in speech-language pathology while also developing and implementing clientcentered treatment programs.

Due to the COVID-19 crisis, OT and SLP programs have found themselves abruptly shifting to online learning and telehealth service delivery models for clinic practica. The shift to telehealth services brings opportunities to reach clients despite stay-at-home mandates but also brings challenges due to the novelty of telehealth service delivery. Telehealth in the occupational therapy and speech-language professions has been bourgeoning, yet recommendations for how to effectively implement services through telehealth have yet to be established. As a result, occupational therapy and speech-language students may feel ill-prepared when attempting to implement services to patients through telehealth platforms, impacting the quality of care provided.

PURPOSE

The purpose of this project is to outline a framework for developing an online interprofessional service-learning experience and to examine occupational therapy and speechlanguage student's confidence for delivering telehealth services to adults with cognitive-communication disorders.

DEVELOPING the ONLINE IP SERVICE-LEARNING EXPERIENCE

| Procedures | Pre-COVID | Post-COVID |
|--|---|---|
| Identify Faculty Partners | Ali Williams, OTD, OTR/L Lori DeMott, OTD, OTR/L, CHT Lisa Juckett, PhD, OTR/L Jennifer Brello, CCC-SLP | Unchanged |
| Outline Course Objectives | Apply classroom and fieldwork learning experiences to the clinic setting with clients who present with impairments that limit occupational engagement. Exposes students to the emerging practice areas of, community health services, collaborative care, and interprofessional relationships. | + Exposes students to the emerging practice areas of, community health services, collaborative care, <i>telehealth</i> and interprofessional relationships |
| Secure Community Partner | OSU Aphasia Initiative, Dept of Speech & Hearing Science Group treatment program for adults with Cognitive- Communication disabilities. Client with communication disability ranging from severe-mild. | Unchanged |
| Provide Orientation and Training | Orientation/ training sessions conducted collaboratively by OT & SLP faculty: LPAA, Supported Communication Articles, resources, training videos provided on learning management platform. Support during sessions provided by faculty. Group debrief at the end of each session. | + Utilization of Telehealth Platform |
| Identify Treatment Objectives | Development of home exercise program. | unchanged |
| Organize Student- Client Teams | OT-SLP-client groups identified. Teams meet on same day, time, same space. 5-week rotation | +Teams meet on zoom in breakout rooms. Faculty mentors rotate in and out of rooms, utilize chat and texting to provide in-session support. |
| Provide Mechanism for Information Sharing, Feedback, and Support | OT develops tx plan, daily activities. SLP provides communication support, helps prepare visual aids, acts as communication facilitator during session. OT-SLP Students collaborate pre/post session, email, phone. | + All collaboration occurs on zoom, email, phone, and Carmen. |

Table 1: Pre-Post COVID operating Procedures





Figure 2 & 3: Zoom Team Sessions

gure 1: Training in LPAA and ported Communication Strategies ovided at the beginning of each



MODIFICATION of the SCQ

The Student Confidence Questionnaire (SCQ) was originally developed to assess OT students' self-efficacy towards developing practical skills during their fieldwork rotations. Given the similarities between fieldwork experiences and service learning, the SCQ was modified to examine OT and SLP students' confidence implementing telehealth services to clients with communication disorders. The modified SCQ was an 18-item instrument that assessed three main constructs:

- Communication
- Adaptability
- Innovation

OT and SLP students completed the baseline SCQ at the start of Service Learning and completed the follow-up SCQ once Service Learning concluded (post 10-weeks)

Please rate the following statements based on your level of confidence implementing

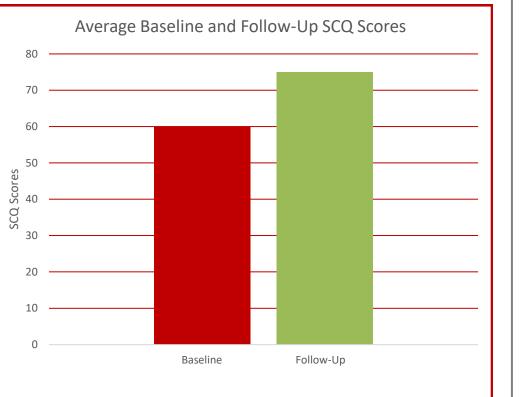
Interact with clients through telehealth

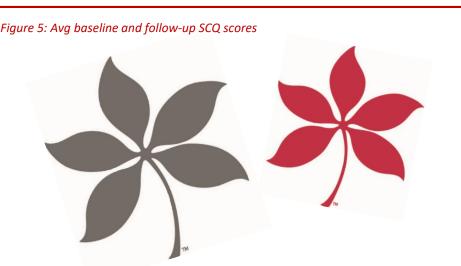
- 2. Communicate assertively with team members through telehealth
- 3. Develop goals with a client through telehealth
- 4. Explain the role of OT to clients/families through telehealth
- 5. Prepare effective written reports to document telehealth services
- 6. Prepare and deliver effective verbal presentations through telehealth 7. Handle disagreements that may arise in the telehealth setting
- 8. Collaborate with other students/instructors through telehealth
- 9. Adjust to a new telehealth setting
- 10. Use different assessments through telehealth 1. Use different interventions through telehealth
- 2. Re-organize my telehealth session when there are unexpected changes
- 13. Handle challenges presented in my telehealth session nnovation: ""I am confident that I can"
- 14. Use my own ideas in my delivery of telehealth services
- 15. Use problem-solving techniques in telehealth
- 16. Take opportunities to use initiative in telehealth
- 17. Make suggestions to my instructor in the telehealth setting 18. Seek out information from appropriate telehealth resources

Figure 4: Student Confidence Questionnaire (Derdall, 2002) was adapted for telehealth

RESULTS

A total of 24 students completed the baseline SCQ and 20 students completed the follow-up SCQ. The average SCQ score at baseline was 60.04 (SD = 7.84) and 74.95 (SD = 6.41)at follow-up. Given that student baseline scores could not be matched to follow-up scores, one-sample t-tests were used to examine changes in confidence levels before and after the Service Learning experience. Findings indicated that Service Learning improved student confidence (t = 10.40, p < .001), producing a very large effect size (Cohen's d = 2.33).





STUDENT REFLECTIONS

I'm nervous about telehealth and worried that it will make communication more difficult fo people with aphasia."

'I am excited to get started and see how it will go!" 'I am nervous about effectively communicating through telehealth. " I have not worked with individuals with aphasia; therefore, this will be a good learning

cole, an MA-SLP student, helped us implement our treatment plans through providing tip: is to how to best communicate with our client, such as using a PowerPoint and pictures when nstrating each exercise. If our client was unable to understand what a direction was, Nicole was quick to jump in and explain what we were trying to say in a way that was easier or the client to understand. Having the presence and knowledge of an SLP allowed us to break down the communication barrier—each client became fully aware of what to do and how to do it. Understandably, this leads to improved patient outcomes because their home rcise program (HEP) was understood and could now be followed. "

learned so much about how aphasia is so different from person to person. It affects everyone differently emotionally and physically. I also learned so much about using different ways to communicate like whiteboards, Alternative and Augmentative Communication Devices, and writing. Everyone that goes has adapted so much and showed me how I can adapt to communicate and in other aspects of my life, too."

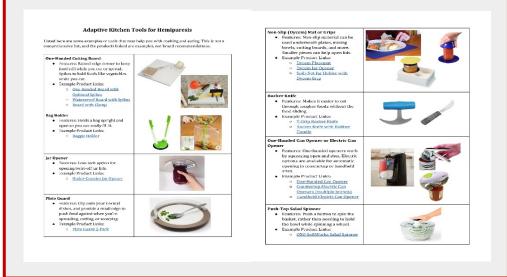


Figure 6: Aphasia Friendly resources developed by OT-SLP Team.

CONCLUSIONS

Results of this project indicate that online interprofessional service-learning experiences may be an effective teaching tool that increases student confidence in the development and implementation of practical skills in occupational therapy and speech-language pathology.

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