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Clinical Reasoning Readiness and Confidence of DPT Students with PT Interventions Using Telehealth



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Background

- Telehealth service-delivery content has an emerging footprint on entry-level physical therapy programs¹
- Students' readiness for clinical reasoning with virtual versus traditional face-to-face servicedelivery remains unknown.
- A need exists to review DPT students' clinical reasoning readiness and confidence with PT interventions using telehealth

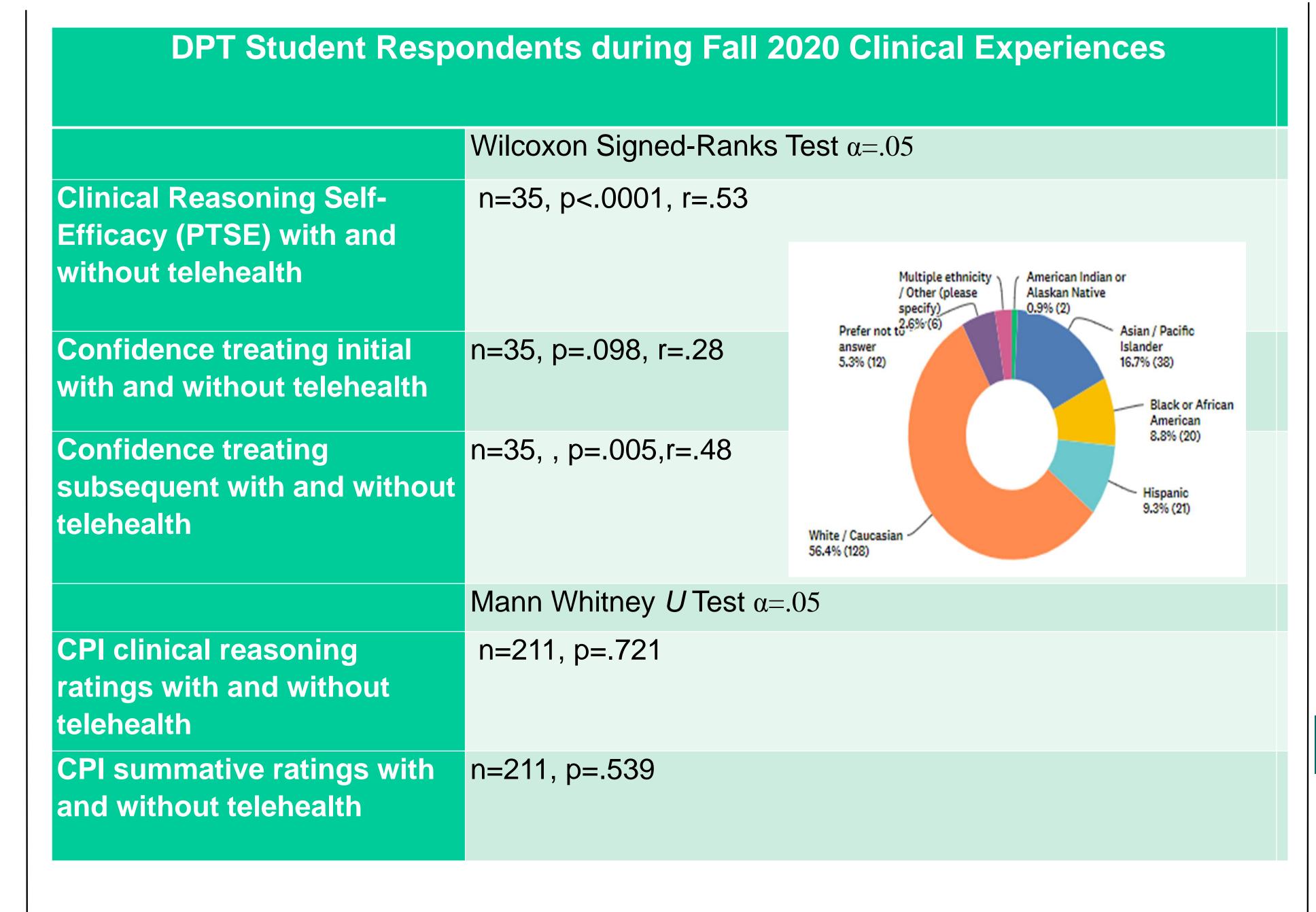
Purpose

- To evaluate DPT students' clinical reasoning readiness and confidence during clinical experiences with and without telehealth as determined by
 - clinical reasoning Physical Therapist Self-Efficacy (PTSE) score²
- 2. self-confidence rating treating patients, and
- 3. final APTA Clinical Performance Instrument (CPI) clinical reasoning and summative ratings³

Methods

- Survey-based descriptive and exploratory crosssectional design
- The survey was administered after mid-term of clinical experiences and involved 28-questions on clinical reasoning self-efficacy, confidence treating, and demographics
- Participants- 211 second and third-year DPT students from multi-campus private health science university during Fall 2020 clinical experiences; 35 students participated directly in telehealth

Results



Results

- Clinical reasoning self-efficacy (PTSE)- difference in clinical reasoning self-efficacy with and without telehealth n=211, p=<.0001, r=.53
- **Confidence** no difference in confidence treating with and without telehealth on initial patient visits n=211, p=.098; difference with confidence treating with and without telehealth on subsequent patient visits n=211, p=.005, r=.48
- Clinical Performance-no difference with Clinical Performance Instrument (CPI) ratings from clinical instructors for students with and without telehealth for clinical reasoning (n=211), p=.721 and summative (n=211), p=.539.

Discussion/Conclusion

- According to clinical instructors, DPT students demonstrated ample clinical readiness and strong clinical performance during clinical experiences with and without telehealth
- DPT students providing PT interventions using telehealth reported lower clinical reasoning self-efficacy (PTSE) when compared to traditional service-delivery
- Greater DPT students' confidence treating using telehealth at initial visit compared to subsequent visits, suggests a lack of student readiness for providing subsequent telehealth visits
- Final CPI ratings did not differ between DPT students with and without telehealth

Limitations

- DPT students recruited were from one large, multicampus private university
- Self-efficacy answer choice options were defined on a 5-point scale limiting elaboration on participant responses

Future Research

 Investigate factors impacting student beliefs and perceptions using telehealth to explore ways to facilitate best practice when transitioning from classroom to clinical experiences

References

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