



Program for Interprofessional Practice, Education and Research

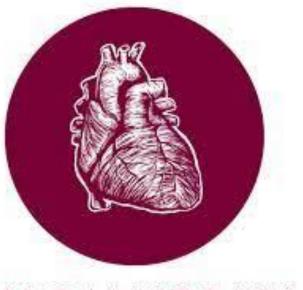
# Physiotherapy students' attitudes toward interprofessional education at program entry and completion: a three-year cohort

Shirley Quach<sup>1,2</sup>, Ana Oliveira<sup>2,3</sup>, Danielle Brewer-Deluce<sup>4</sup>, Sarah Wojkowski<sup>1,2</sup>

1. Program for Interprofessional Practice, Education and Research, McMaster University; 2. School of Rehabilitation Sciences, McMaster University; 3. Lab 3R Respiratory Research and Rehabilitation Laboratory, School of Health Sciences, University of Aveiro, IBMED Aveiro, Portugal; 4. Education Program in Anatomy, McMaster University









MACANATOMY

## INTRODUCTION

- Interprofessional education (IPE) prepares students for future interprofessional collaborations in the workplace
- Effective interprofessional collaborations enables efficient communication and teamwork between clinicians
- Traditional IPE delivery transitioned into alternative methods during the pandemic

## **OBJECTIVE**

To compare interprofessional collaboration readiness from program entry to graduation in entry-level, Master of Science physiotherapy (PT) students during the pandemic years

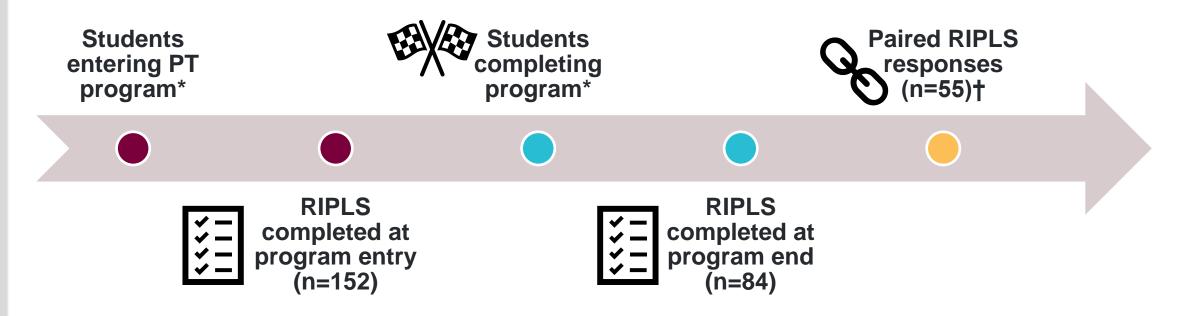
## **METHODS**

- PT students who experienced pandemicrelated classroom disruptions were included
- Students were invited to complete the Readiness to Interprofessional Learning Scale (RIPLS) at program entry and completion (Figure 1)
  - Analyzed via Wilcoxon rank sum test or Wilcoxon signed-rank test, effect sizes reported as Somer's D (D)
  - STATA 17.0/BE was used, and p<0.05 considered statistically significant

## **DESCRIPTION OF RIPLS**

- ❖ 19 item scale, scored using a 5-point Likert scale (1 strongly disagree to 5 - strongly agree)
- Provides a total score and 4 subscales (range of scores):
  - ➤ **Subscale 1**: Teamwork & Collaboration (9 45)
  - ➤ **Subscale 2**: Negative Professional Identity (3 15)
  - ➤ **Subscale 3:** Positive Professional Identity (4 20)
  - ➤ **Subscale 4:** Roles & Responsibilities (3 15)
- ❖ Total score ranges from 19 (low readiness) to 95 (high readiness)
- Scores for subscales 2 and 4 are reversed before totaling scores

## **PARTICIPANTS**



**Figure 1:** Timeline diagram of data collection for each cohort; \*for 3 cohorts (2019 – 2021; 2020– 2022; 2021 – 2023); †Responses were paired based on student generated codenames and not all students who completed RIPLS at program entry completed the RIPLS at program end

#### **Gender Distribution**

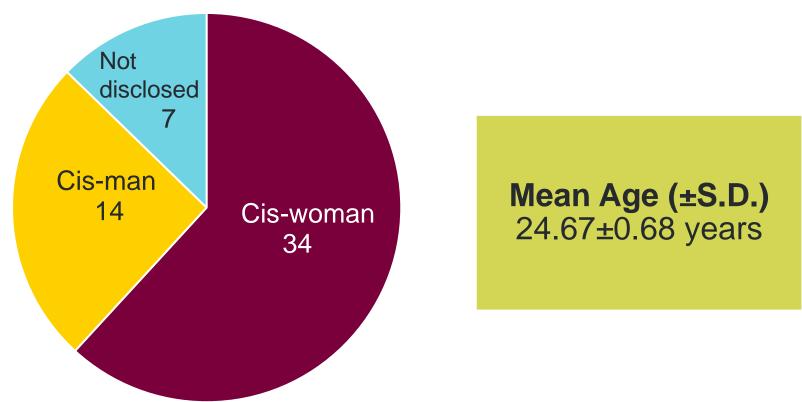
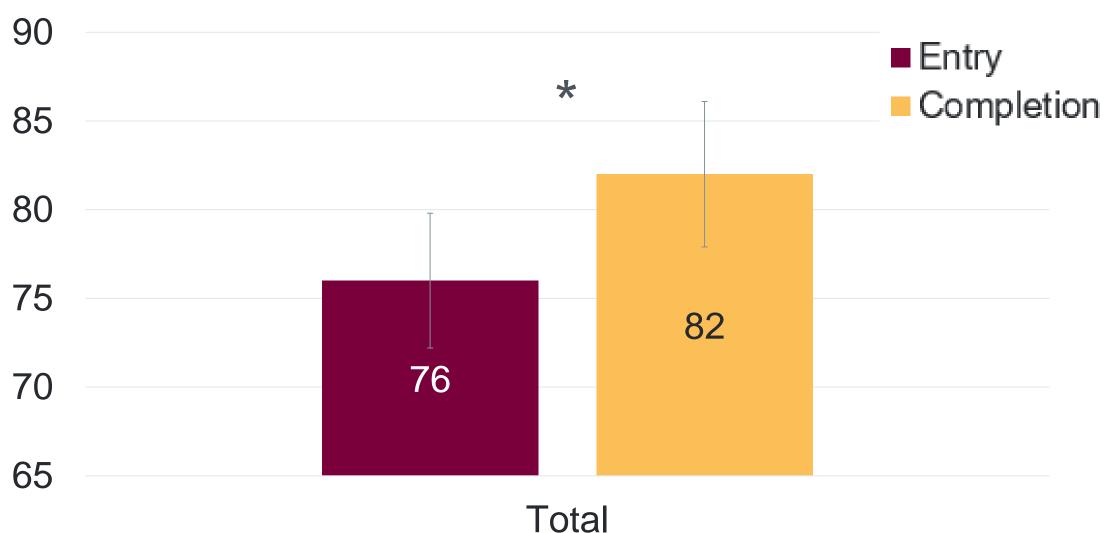


Figure 2: Respondents' characteristics – Gender and mean age.

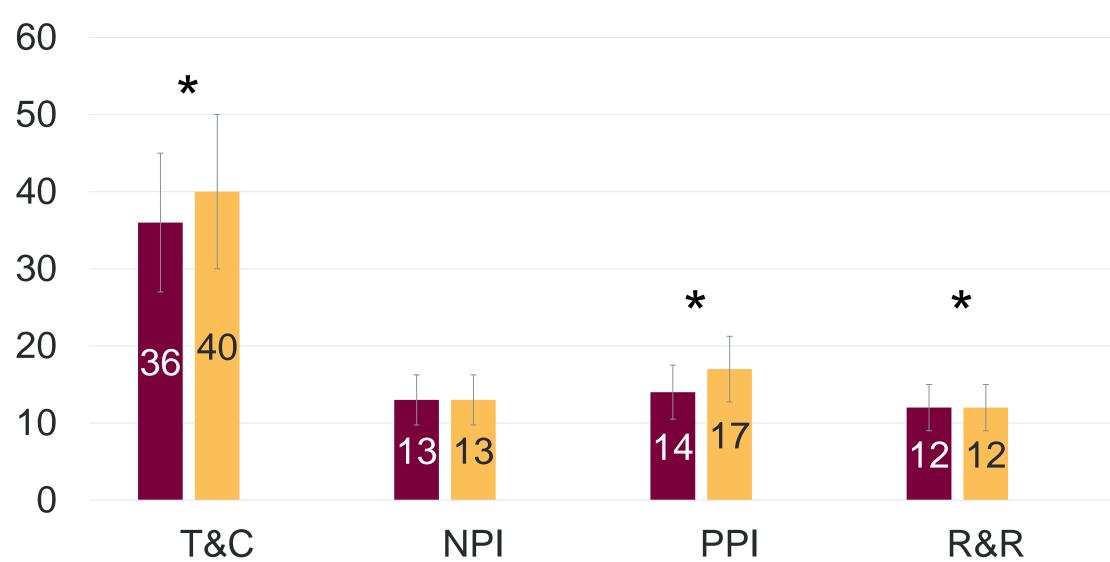
# RESULTS

# **RIPLS Median Total Scores**



**Figure 3:** Median total score (value in bars); significant differences in scores at program entry and completion with effect size (D) = 0.33.

# **RIPLS Median Subscale Scores**



**Figure 4**: Median subscale scores (value in bars); significant differences in scores at program entry and completion are indicated by \*asterisks for p-values <0.05. The effect sizes (D) for T&C, PPI and R&R were 0.48, 0.52 and 0.10, respectively.

Abbreviations: T&C – Teamwork and collaboration; NPI – Negative professional identity; PPI – Positive professional identity; R&R – Roles and responsibilities.

# CONCLUSIONS

- Increased in 3 subscales and total scores:
  - Teamwork and Collaboration
  - Positive Professional identity
- Roles and responsibilities

Non-conventional approaches to IPE is still impactful at improving PT students' perceptions and readiness toward IPE

- Non-traditional methods may be a feasible solution to increase flexibility and engagement from students
- Future studies need to evaluate and compare the changes to students' IPE readiness across:
  - Years before and after the pandemic
  - > Other health professional programs

### REFERENCES

- Houlden S, Veletsianos G. A synthesis of surveys examining the impacts of COVID-19 and emergency remote learning on students in Canada. J Comput High Education. 2022; 34: 820-843. doi: 10.1007/s12528-022-09323-4.
- McFadyen AK, Webster V, Strachan K, Figgins E, Brown H, McKechnie J. The Readiness for Interprofessional Learning Scale: a possible more stable sub-scale model for the original version of RIPLS. J Interprof Care. 2005;19(6):595-603.
- Newson R. Confidence Intervals for Rank Statistics: Somers' D and Extensions
   The Stata Journal. 2006; 6(3): 309–334. doi:10.1177/1536867X0600600302.



Dr. Sarah Wojkowski, PhD, PT
Assistant Dean, Physiotherapy
Director, Program for Interprofessional Practice,
Education and Research (PIPER)
Faculty of Health Sciences, McMaster University
wojkows@mcmaster.ca