

Characterizing Students' Readiness for Interprofessional Learning Across Training Levels and Degree of Program Specialization



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BACKGROUND/INTRODUCTION

- Interprofessional education (IPE) = multiple professions learning with, from or about each other to enhance collaboration and quality of care¹
- Due to a lack of baseline opinion data, success of IPE in preparing trainees for collaborative practice is unknown

OBJECTIVE

• Characterize spectrum of IPE readiness and opinions across incoming Faculty of Health Sciences (FHS) students (Table 1)

HYPOTHESIS: readiness varies across training level (grad vs ugrad) and degree of program specialization (general vs HPP)

METHODS

• Incoming FHS students completed RIPLS (Readiness for Interprofessional Learning Scale)² rankings (19 statements) upon program entry (Fig. 1)

LIKERT SCALE DATA (80% of cohort)

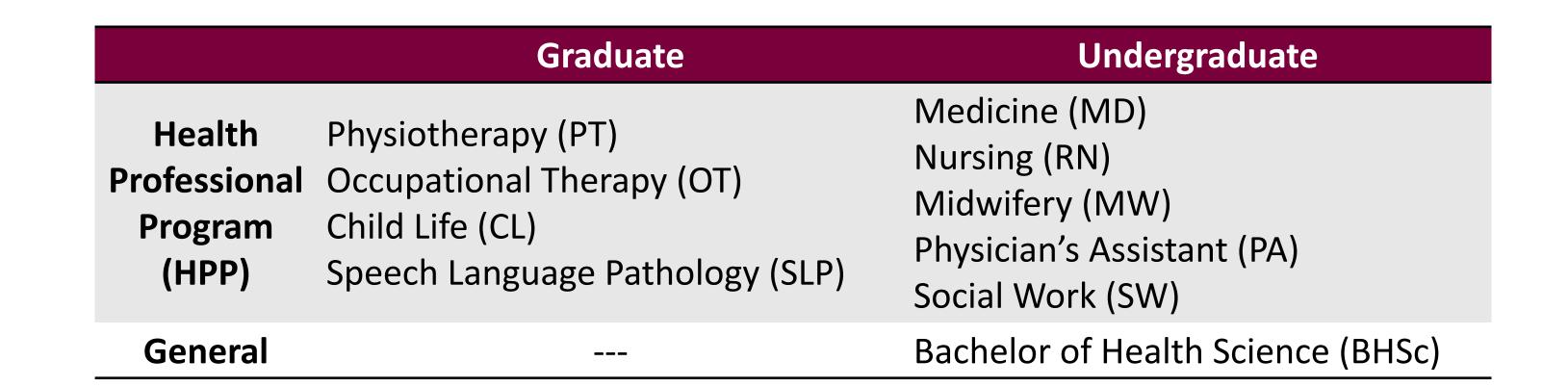
 Responses averaged across statements to form overall and 4 sub-scale (Teamwork & Collaboration, Negative/Positive Professional Identity, Roles & Responsibilities) scores

Q-METHODOLOGY DATA (20% of cohort)

• Responses interpreted via by-person factor analysis to identify groups (factors) with shared opinions³

All Incoming FHS Students (n = 1158)Likert Ranking Q-Methodology n = 71/236n = 304/922 1 2 3 4 5 -3 -2 -1 0 1 2 3 19 RIPLS Statements 0000 00000 00000 00000 Factor Analysis **Overall Score Factor Factor Factor** T & C R&R Qualitative Feedback

Fig 1: Participants completed a 5-pt Likert-Scale (80% of cohort), or Q-Methodology (20%) ranking of 19 RIPLS statements upon program entry.



LIKERT RESULTS

- RIPLS 4 sub-scale factor structure confirmed via confirmatory factor analysis (RMSEA = 0.035, CFI = 0.959)
- 2-way (specialization & level) ANCOVAs accounting for age & sex (Fig. 2)

Participant Demographics

	Sex: 33:29:24:38	Sex: 21:24:24:23
		N = 88
General	Age ± SD	Age: 17.96 ± 0.2
	Sex (F:M:O:ND)	Sex: 26:25:18:19

Table 2: Participant age and sex by level and specialization.

Age - sig diff all groups, p<0.05

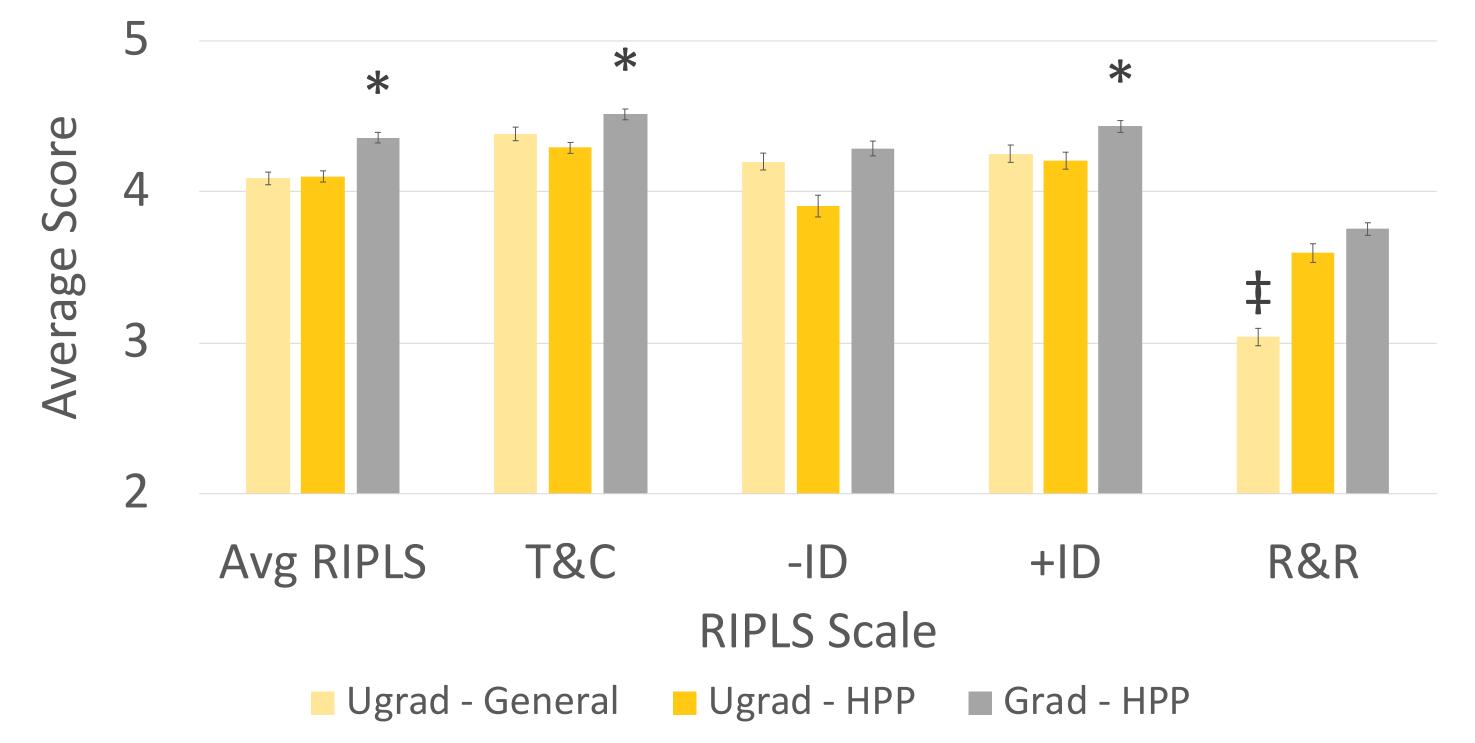


Fig 2: Overall and Sub-scale RIPLS scores by level (ugrad vs grad) and specialization (general vs HPP). Error bars = SE

← Table 1: Distribution of FHS academic programs based on level of study (grad/ugrad), and degree of specialization (health professional program/general)

Q-METHODOLOGY RESULTS

• 54/71 participants significantly loaded onto 3 factors representing significantly different groups of students with shared IPE opinions, values & preferences (Fig. 3)

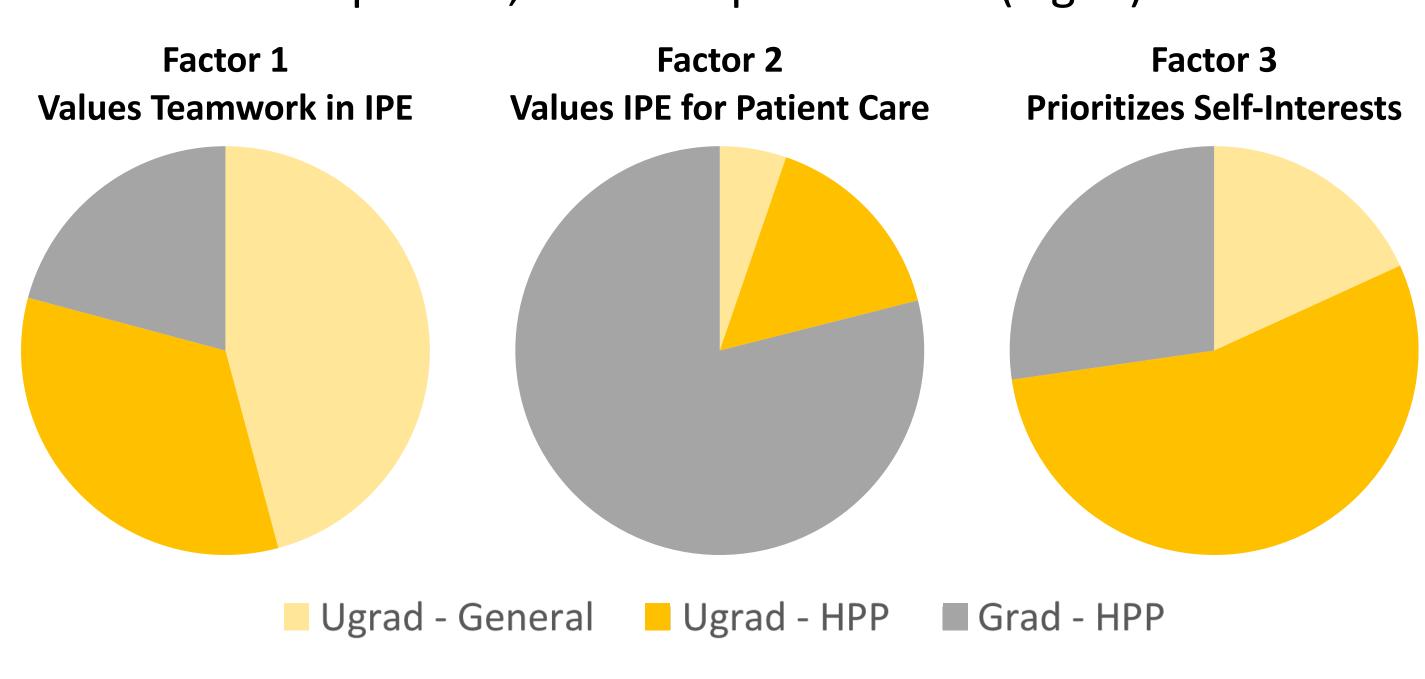


Fig 3: Proportion of participants from each level/specialization group loading onto each factor

Q-Methodology Distinguishing Statements by Group:

Factor 1 (n = 24): Value of Teamwork in IPE (mostly ugrad)

 For small group learning to work, students need to trust/respect each other

Factor 2 (n = 19): IPE is beneficial for patient care (mostly grad)

 Patients would benefit if health care students worked together to solve problems

Factor 3 (n = 11): Prioritizes Self-Interests (minority across prgms)

I have to acquire much more knowledge/skills than others

CONCLUSIONS

- 3 groups of IPE opinions, related to program level in FHS
- Readiness for IPE learning increases as students progress from undergraduate to graduate studies
- Students in general programs tend to have less understanding of professional roles, and value learning with others
- Variability underscores the necessity long-term IPE evaluation in offering stage-matched IPE educational interventions
- **NEXT STEPS:** Demonstrating long-term IPE development (incoming vs graduating student comparisons)

REFERENCES

- 1. WHO 2010: Framework for Action on IPE and Collaborative Practice
- . Parsell & Bligh 1999: Medical Education
- 3. McKeown & Thomas 2013: Q Methodology

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Students participants

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^{*} significant difference from ugrad, ‡ sig difference from HPP