

Dissecting through the Decade:

A 10-year Cross-sectional Analysis of Interprofessional Experiences in the Anatomy Lab



CONCLUSION

Interprofessional anatomy learning

improved students' overall IPE

readiness, as observed by changes in

the mean RIPLS and IEPS total and

subscale scores.

dissection findings within their

interprofessional teams.

Students expressed their gratitude towards

knowledge through dissections and carrying

out clinical conversations relating to their

Students gained a stronger appreciation

for interprofessional collaboration, likely

roles, responsibilities and the contributions

by improving their understanding of their own

learning and applying anatomical

Shirley Quach, Sakshi Sinha, Alexandra Todd, Andrew Palombella, Jasmine Rockarts, Sarah Wojkowski, Bruce Wainman, Yasmeen Mezil Faculty of Health Sciences, McMaster University, Hamilton, ON

INTRODUCTION

- Interprofessional education (IPE) is a critical component in preparing pre-licensure health professional students for future teamwork and collaboration.
- Anatomy is the language of health sciences. Therefore, anatomical education can serve as an avenue to facilitate interprofessional student interactions.

The purpose of this study is to evaluate the differences in IPE attitudes and perceptions amongst health disciplines across the span of 10 years.

COURSE & SUBJECTS

The IPE Anatomy Dissection elective at McMaster University is an 8-week elective for first-year students from multiple health sciences programs (Figure 1). This elective was launched in 2009.



Figure 1: Programs of IPE Anatomy Dissection.

Students participate to deliver scope of practice presentations, discuss clinical case studies, and collectively perform cadaveric dissections with their peers.



Figure 2: Components of IPE Anatomy Dissection.

METHODS

Figure 3: Surveys were available to students for ~2 weeks before and after the elective.

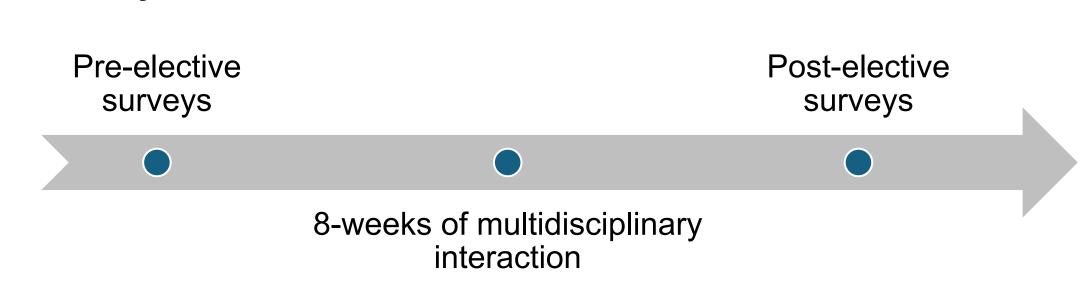


Table 1: Outcome measures used to access perceptions and attitudes toward IPE.

Description Scale

- To assess attitudes and perceptions of learners. Used to determine their readiness for IPE learning, changes and intervention effectiveness
- Total score ranges from 19 to 95 with higher scores indicating greater IPE readiness

IEPS

- To gauge learners' perceptions of their own profession and their relationship to other disciplines. Used to determine their level of perceived and actual IP collaboration
- Total score ranges from 12 to 72, with greater scores indicating greater positive perception towards IPE

significantly changed after the elective. Statistical significance indicated by * for p<0.05.

Total RIPLS per discipline

Total RIPLS and IEPS, all disciplines

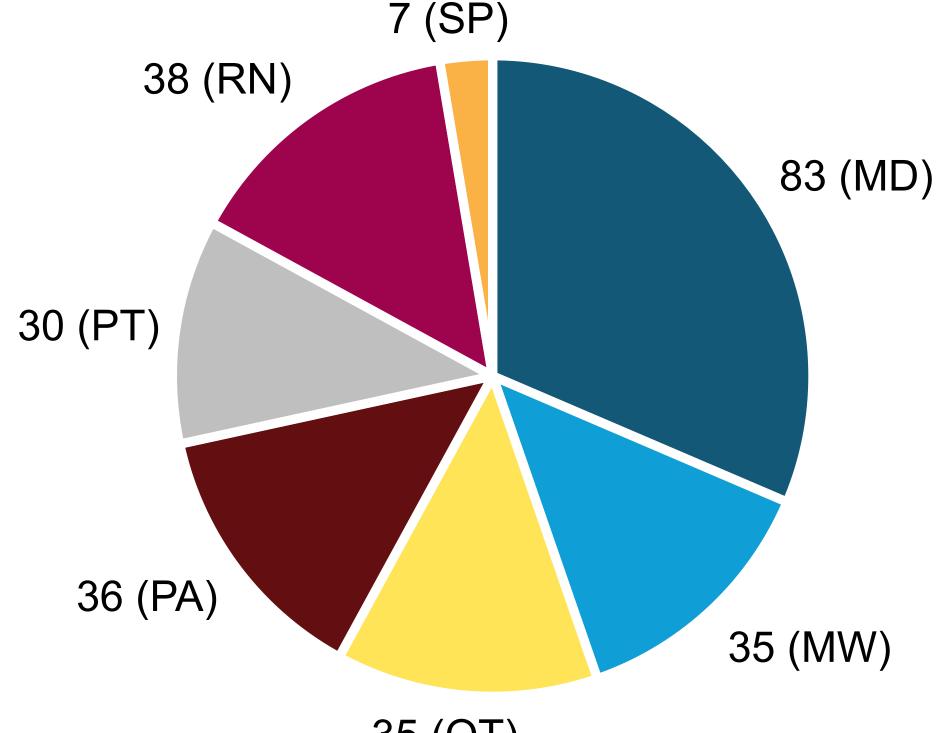


Figure 4: The distribution of students involved in the elective course over the span of 10 years (n=264). *SP were introduced into the program as of 2018.

35 (OT)

IEPS subscale scores, all disciplines

for Cooperation Actual Cooperation

IMPLICATIONS

provided by other disciplines.

These findings emphasize the importance of utilizing foundational knowledges in health sciences, such as anatomy to create impactful IPE experiences.



Future steps to collect additional demographic characteristics and incorporate additional healthcare disciplines to enhance applicability of these results.

AKNOWLEDGEMENTS

Special thanks to the Program for Interprofessional Practice, Education, and Research and the staff and donors of the Education Program in Anatomy.





Practice, Education and Research

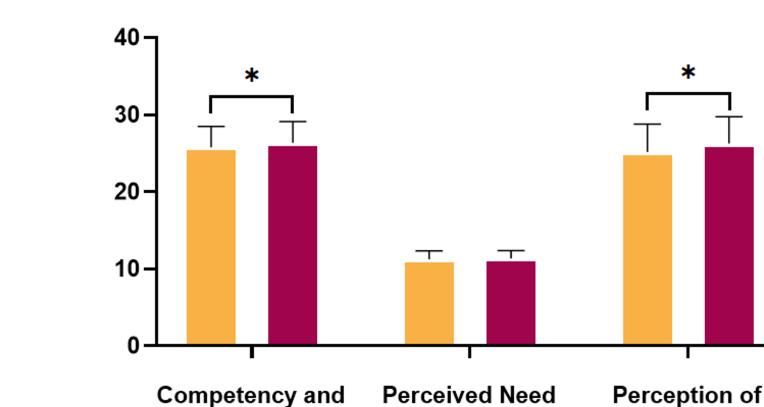
REFERENCES

Fernandes AR, Palombella A, Salfi J, Wainman B. Dissecting through barriers: A mixed-methods study on the effect of interprofessional education in a dissection course with healthcare professional students. Anat Sci Educ. 2015;8(4):305-316.; Mackinnon C, Akhtar-Danesh N, Palombella A, Wainman B. Using Q-methodology to determine students' perceptions of interprofessional anatomy education. Anatomical Sciences Education. 2022;15(5):877-885; Zheng YHE, Palombella A, Salfi J, Wainman B. Dissecting through Barriers: A Follow-up Study on the Long-Term Effects of Interprofessional Education in a Dissection Course with Healthcare Professional Students. Anat Sci Educ. 2019;12(1):52-60. All icons were sourced from Flaticon.

Total IEPS per discipline

- RIPLS subscale scores, all disciplines

RESULTS



Roles and Negative Positive Collaboration

Responsibilities

Figure 5: A) The total RIPLS scores analyzed by disciplines showed significant differences in mean scores after the elective in PA, PT and RN. B)

The total IEPS scores by disciplines showed significant differences in mean scores after in MD, MW and PA. C) Total RIPLS and IEPS significantly

changed after the elective, when scores were analyzed collectively (n=264) across the 10 years. D-E) The mean RIPLS and IEPS subscale scores