

## **Traditions in Anatomy**

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**Symposium on Quality of Teaching Anatomy** 



55th International Congress of Czech Anatomical Society 60th Lojda Symposium on Histochemistry September 8–10, 2024 Telč, Czech Republic















# Department of Anatomy and Clinical Anatomy Institute of Anatomy "Drago Perović"

















- ⇒ "Anatomy," derived from the Greek, anatome to cut or cut repeatedly dissection has been an integral part of anatomy teaching through the history.
- ⇒ The **traditional human anatomy teaching** in person lectures, cadaveric dissection laboratory and anatomy textbook.
- ⇒ Traditional lectures (teaching) are mostly <u>based on knowledge transmission from lecturer</u> to students **IS THIS STATMENT REALY TRUE?** 
  - Nowadays, curricula shift towards forms of teaching based on knowledge construction by the students.





# Erasmus+

# **LEAN**body





"Teaching oriented" – Role of teacher is to teach. Student's "follow" teachers.

"Learning oriented" – Role of teacher is to coach. Teachers "direct and follow" student's. ⇒ Evidence-based and student-centered strategies have shown to improve student engagement and interaction: team-based learning, case-based learning, and flipped classroom – WHAT IS THE COST BENEFIT?

#### $\Rightarrow$ Present state:

- o fewer teaching contact hours,
- o increasing number of students,
- more diverse group of students.
- ⇒ Anatomists face the pressures of changing modes of medical education and assessment.







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- ⇒ Students' exam results and satisfaction rate **online teaching cannot replace traditional teaching -**
  - but combining online with face-to-face educational modalities could be efficient and successful.
- ⇒ Shifting from teacher-centered to a **highly effective learner-centered approach** could **mitigate challenges** such as a shortage of anatomists and the excessive content in the anatomy curriculum.
- ⇒ Traditional teachers' role in medical education should not be underestimated role of modelling is a widely acknowledged element of medical education associated with a range of beneficial outcomes:
  - contributing to professional identity development and
  - a sense of belonging.













### Who are our students?

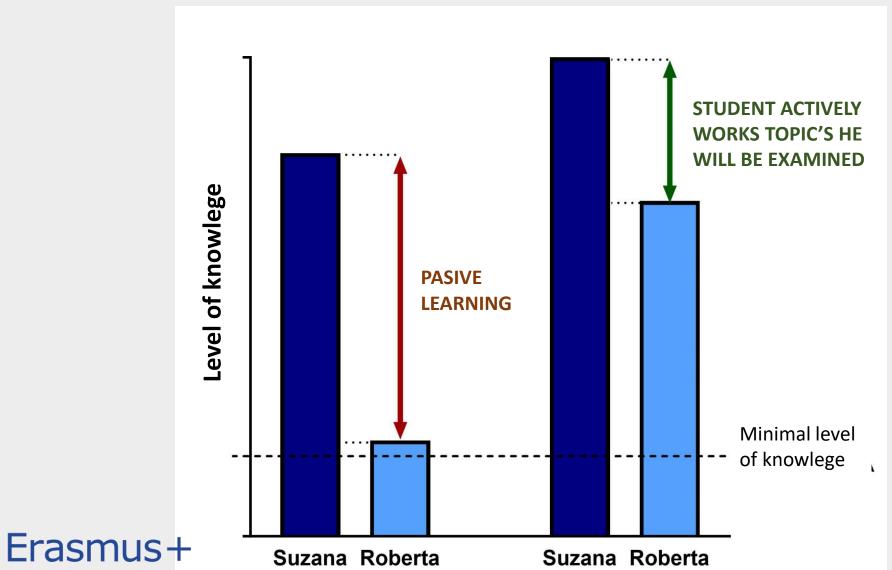
- Suzana
  - Highly motivated to learn as much as possible
  - Independently thinks deeply about the topic
  - Every teacher's dream

active participant in the learning process

- Roberta
  - The motivation is to finish the studies, in principle with a minimum of effort
  - He thinks about what will be on the exam
  - Mostly passive in class (doesn't seem to show much interest)

pasive participant in the learning process

## What will happen to Suzanne and Roberta?





- 11 anatomy teachers filled out the survey
- three respondents from University of Zagreb,
- three respondents from University of Pécs,
- three respondents from Masaryk University,
- one respondent from University of Cambridge,
- one respondent from Karolinska Institut.
- 70% of respondents were medical doctors, while the rest were biologists or anthropologists.
- three respondents were also course leaders at their respective institutions.





### **Survey on Traditions in anatomy**

- Formal education on teaching methods/pedagogy
  - only about one third of the respondents claimed to have it.
- Workload varied significantly between respondents:
  - o from 180 hours to over 1000 hours per year,
  - minimum workload for their position was almost half of the respondents either did not know, or believed it was not defined.
  - all respondents who reported the existence of a minimum workload also reported having substantially more actual workload (some even three times over the norm).
- Intended learning outcomes:
  - most responded that the Anatomy course had ILOs at the level of the course,
  - o at the level of individual teaching units, only half answered positively.





### **Survey on Traditions in anatomy**



- "I encourage interaction with my students during classes"
  - o all respondents considering it to be **completely or mostly true for them**.
- Frustration with students' knowledge and passivity
  - o answers suggested a relatively low level of frustration.
- How important is tradition:
  - 70% is least important aspect in Anatomy teaching,
  - 30% is still considered this to be quite important.
- Developing students' professional attitudes to be the most important aspect in Anatomy teaching
  - o 75% considered it essential, and other quite important.





### **Open-ended questions**

- "Describe how you structure your typical seminar in the Anatomy course",
- "Describe how you structure your typical practical class in the Anatomy course",
  - three respondents were not sure what the words "seminar" and/or "practical class" meant.
- A common theme for seminars was that
  - the teacher would have some kind of introduction to the topic,
  - o they would do some kind of summary or debriefing at the end.

#### **Open-ended questions**

- Practical classes were mostly equated with dissection -
  - Some respondents gave detailed descriptions on how they structure the dissection,
     while others stated "we just dissect for 3 hours" or something similar.
- "What challenges do you face as a teacher in the Anatomy course?" the answers varied among the respondents, though there were common themes present:
  - lack of preparation by students,
  - lack of consistency in applying certain rules or interventions,
  - struggling to achieve active participation of students in classes.







Ana

Ivan

**Vedran** 

Maura Marina







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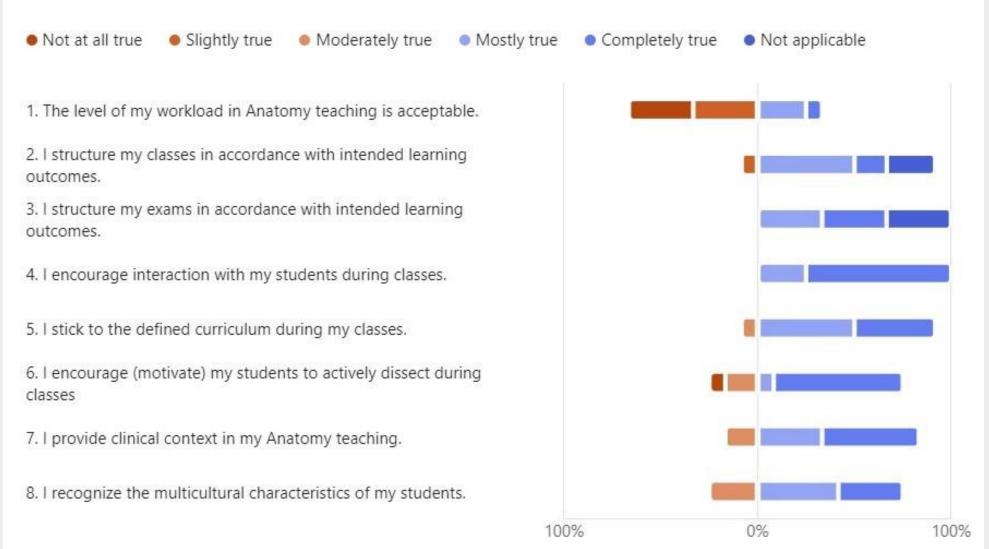






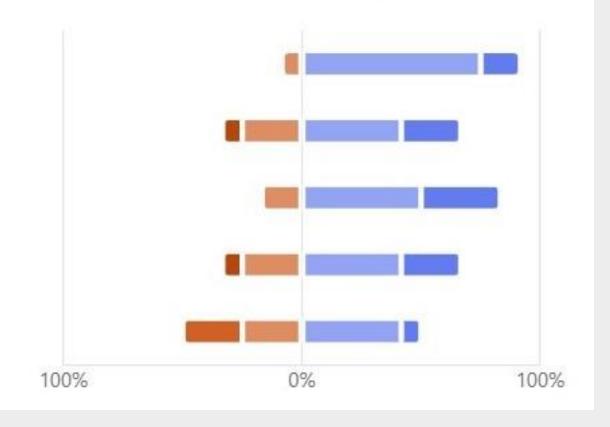
#### For the following statements, please choose how true they are for you.





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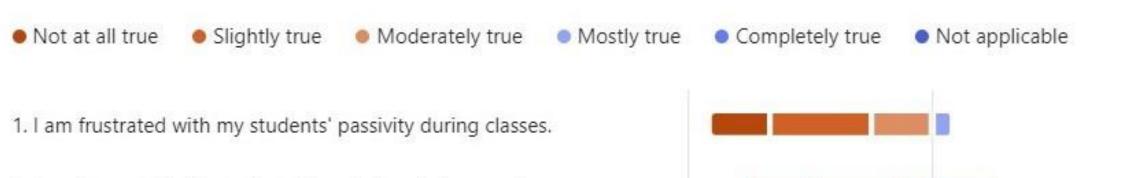
- Not at all true
   Slightly true
   Moderately true
   Mostly true
   Completely true
   Not applicable
- Students actively participate during my classes.
- Students actively dissect during my practical classes.
- Students observe anatomical specimens during my practical classes.
- Sticking to tradition in Anatomy teaching is important in my Department.
- 5. Implementing novel methods in Anatomy teaching is important in my Department.





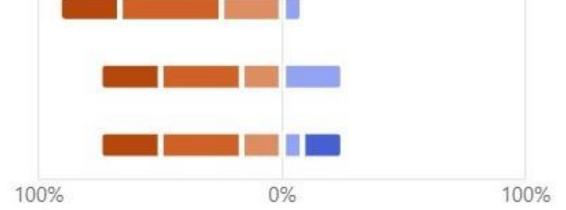


### For the following statements, please choose how true they are for you.



3. I am frustrated with my students' knowledge on the final exam.

2. I am frustrated with students' knowledge during my classes.







In the following questions answer how important these statements are for you as a teacher in the Anatomy course.

- Not important
- Slightly important
- Moderately important
- Quite important
- Essential

- 1. How important is sticking to tradition in Anatomy teaching?
- 2. How important is implementing novel methods in Anatomy teaching?
- 3. How important is students' active dissection in Anatomy teaching?
- 4. How important is developing students' professional attitudes in Anatomy teaching?
- 5. How important is clinical context in Anatomy teaching?
- 6. How important is it to appreciate the multicultural characteristics of students?

