



Co-funded by the  
Erasmus+ Programme  
of the European Union



## **Learning outcomes based on acquiring competencies: pharmacy students professional practice**

Prof. Radmila Veličković Radovanović, Faculty of Medicine, University of Niš

Prof. Dušanka Krajnović, Faculty of Pharmacy, University of Belgrade

Prof. Ivana Arsić, Faculty of Medicine, University of Niš



Co-funded by the  
Erasmus+ Programme  
of the European Union



The conducted survey included:

- 55 final year pharmacy students,
- 31 recent graduated pharmacists, who have already done Professional student practice (PSP/CP) and
- 40 mentors-pharmacists from the community pharmacies.

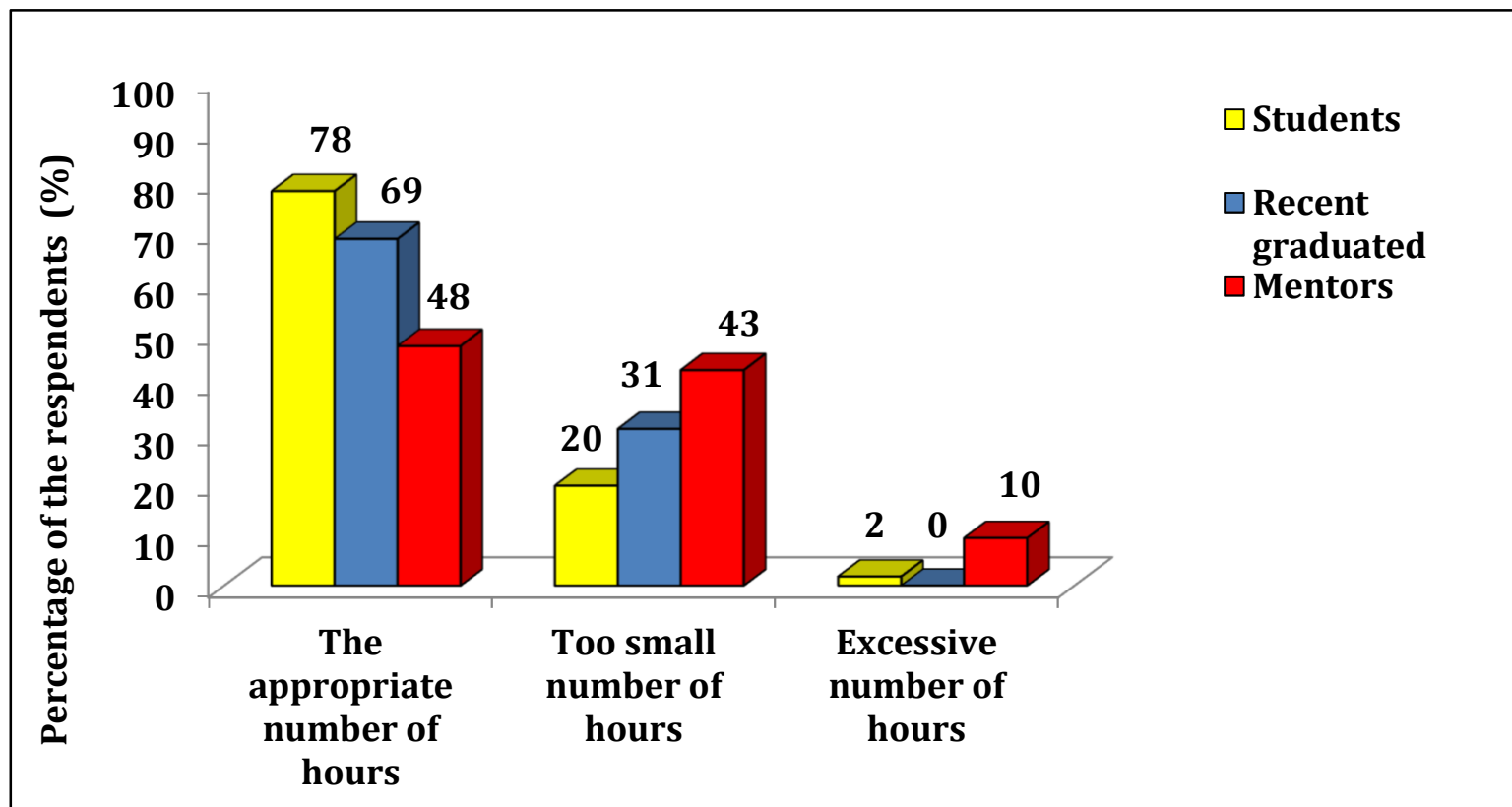
**Q 1. Do you think that the implementation of the PSP in the undergraduate education of pharmacy students seems justified?**



Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 2. Do you think the appropriate number of 100 hours for the PSP (75 hours at the community pharmacy and 25 hours at the hospital pharmacy)?

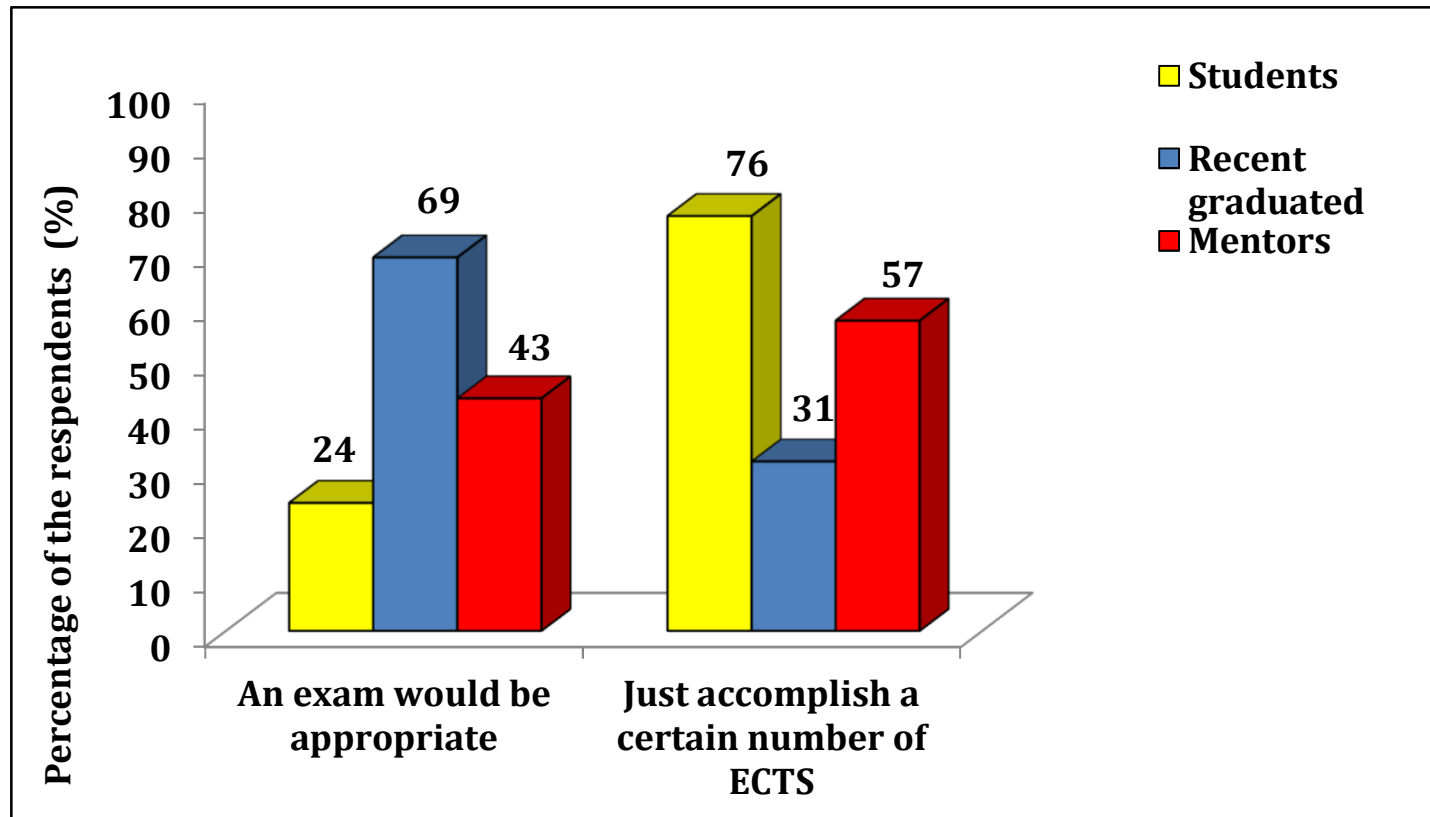




Co-funded by the  
Erasmus+ Programme  
of the European Union



### Q 3. After the PSP students should taking an exam or just accomplish a certain number of ECTS?

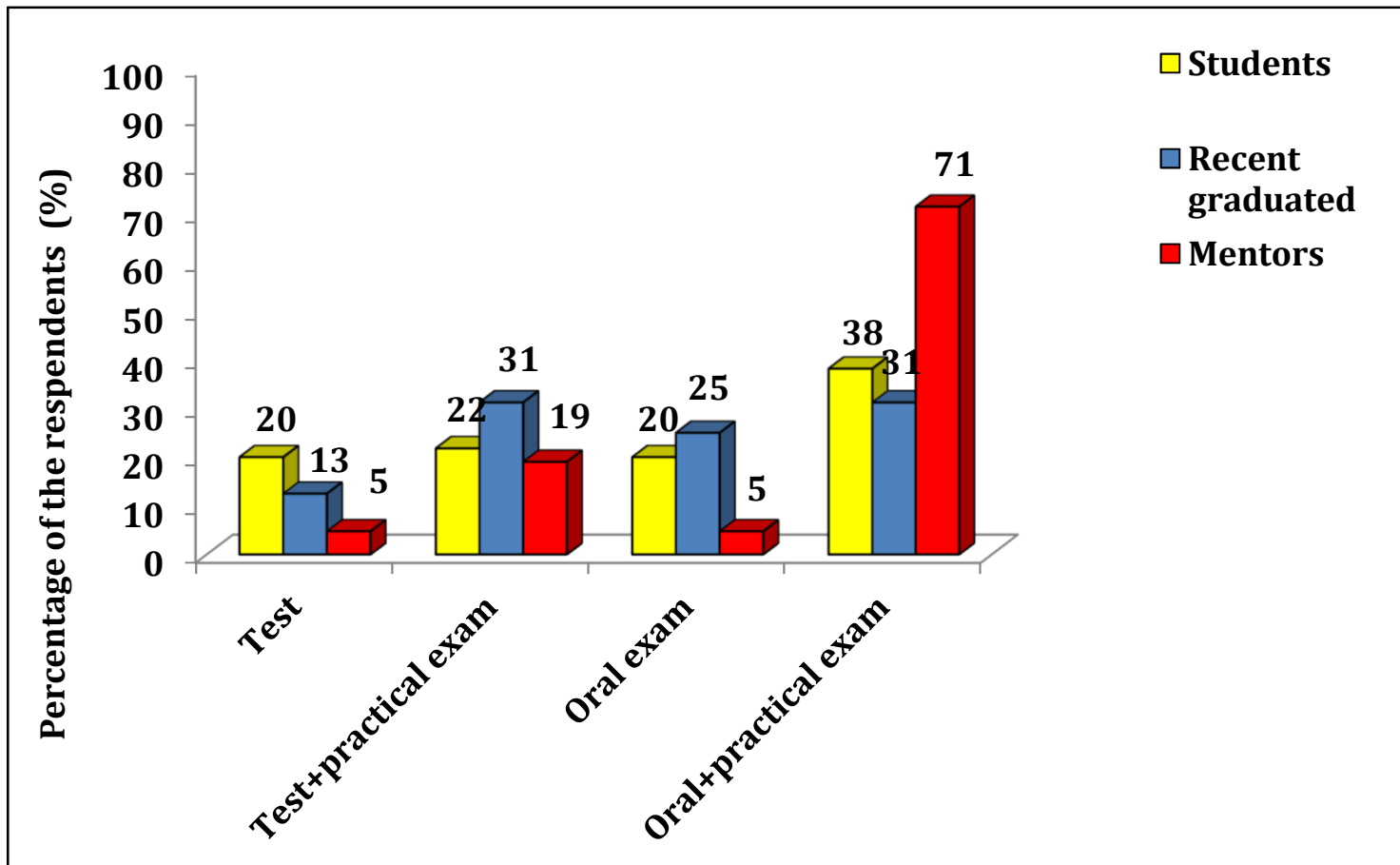




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 4. What form of the exam would be appropriate in order to assess the acquired knowledge and skills of students?

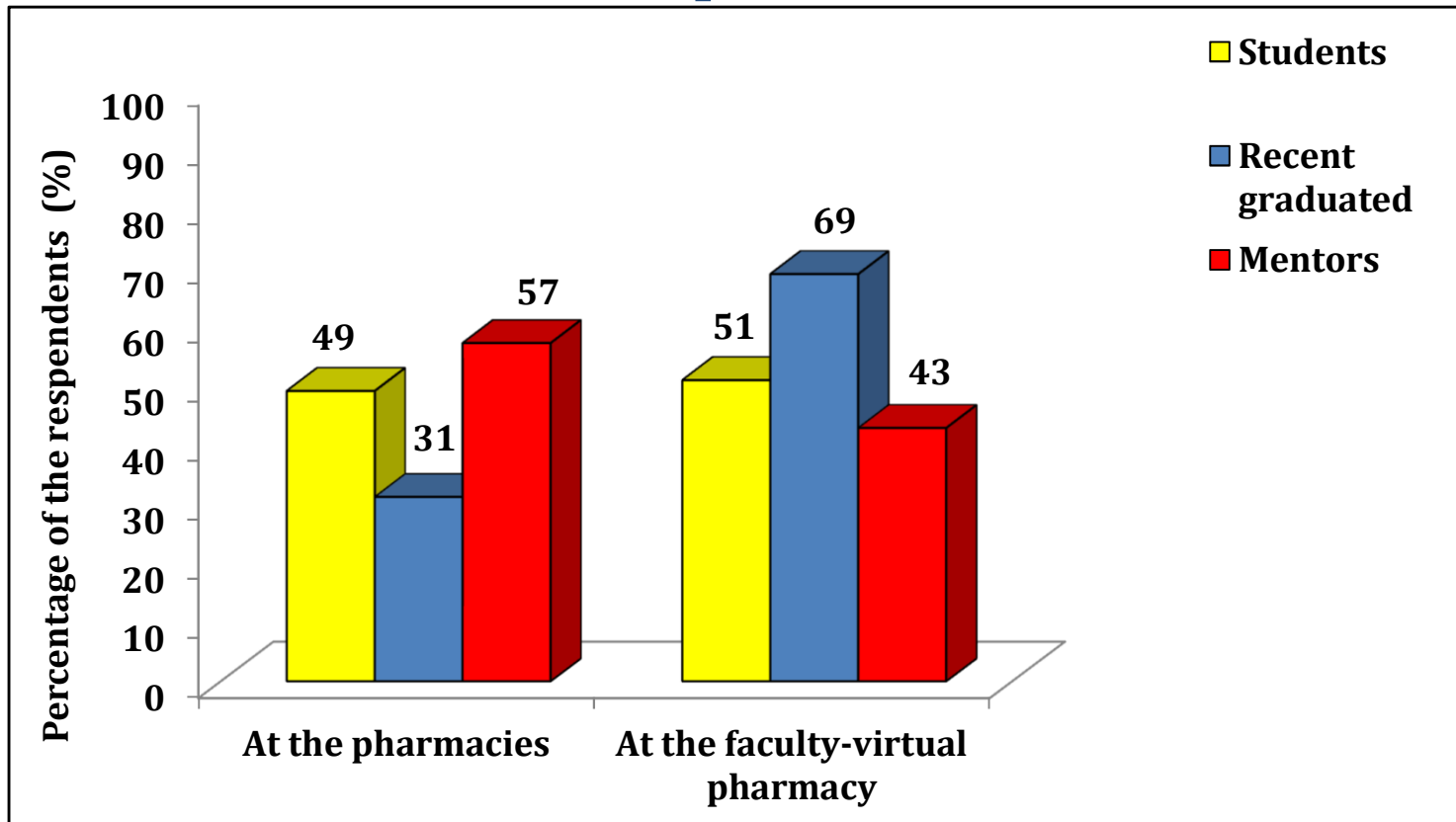




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 5. If the students take an exam after the finished practice, where should the practical part of the exam take a part?

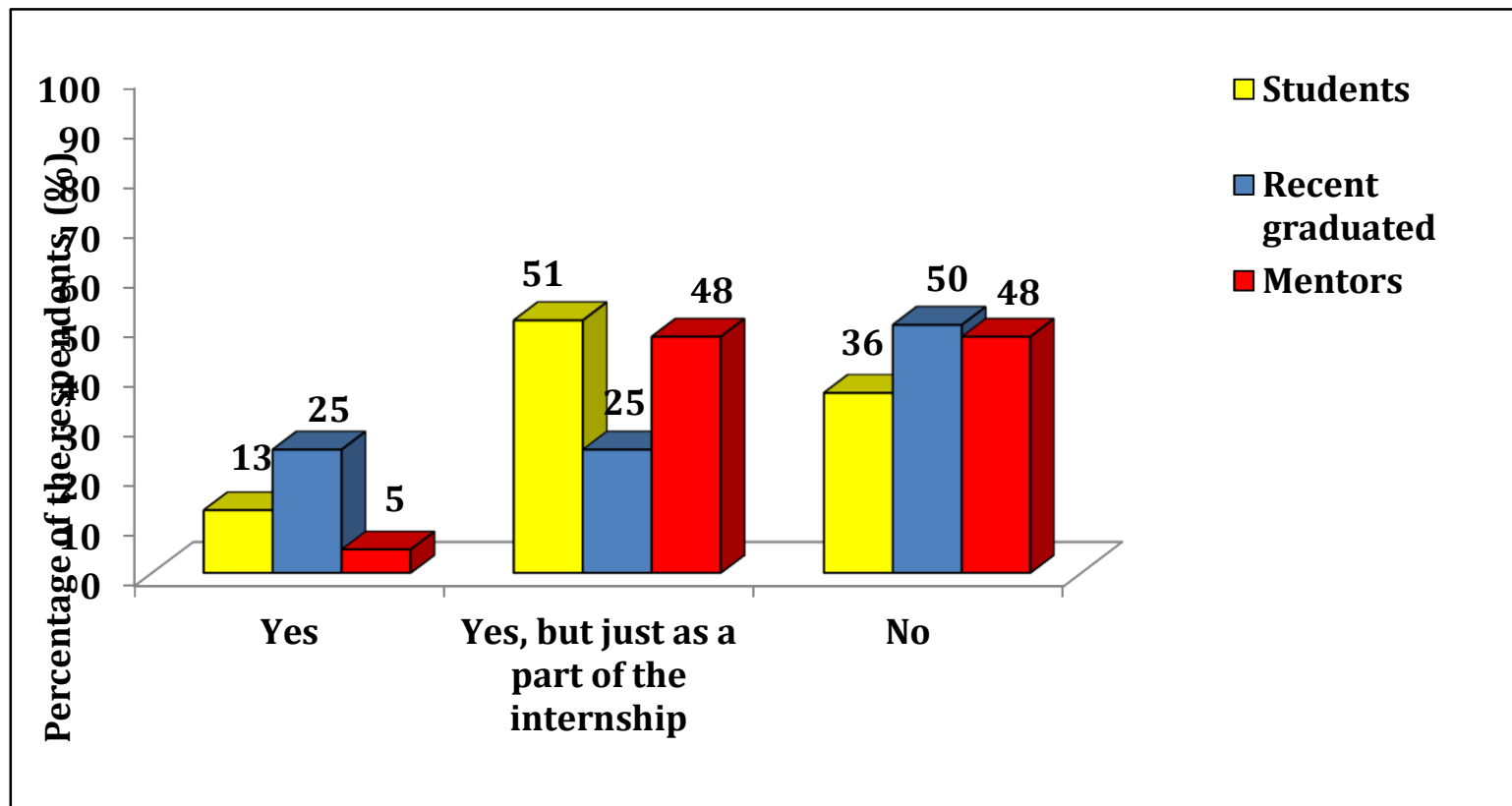




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 6. Do you believe that the implementation of the PSP with the appropriate number of hours can replace internship?

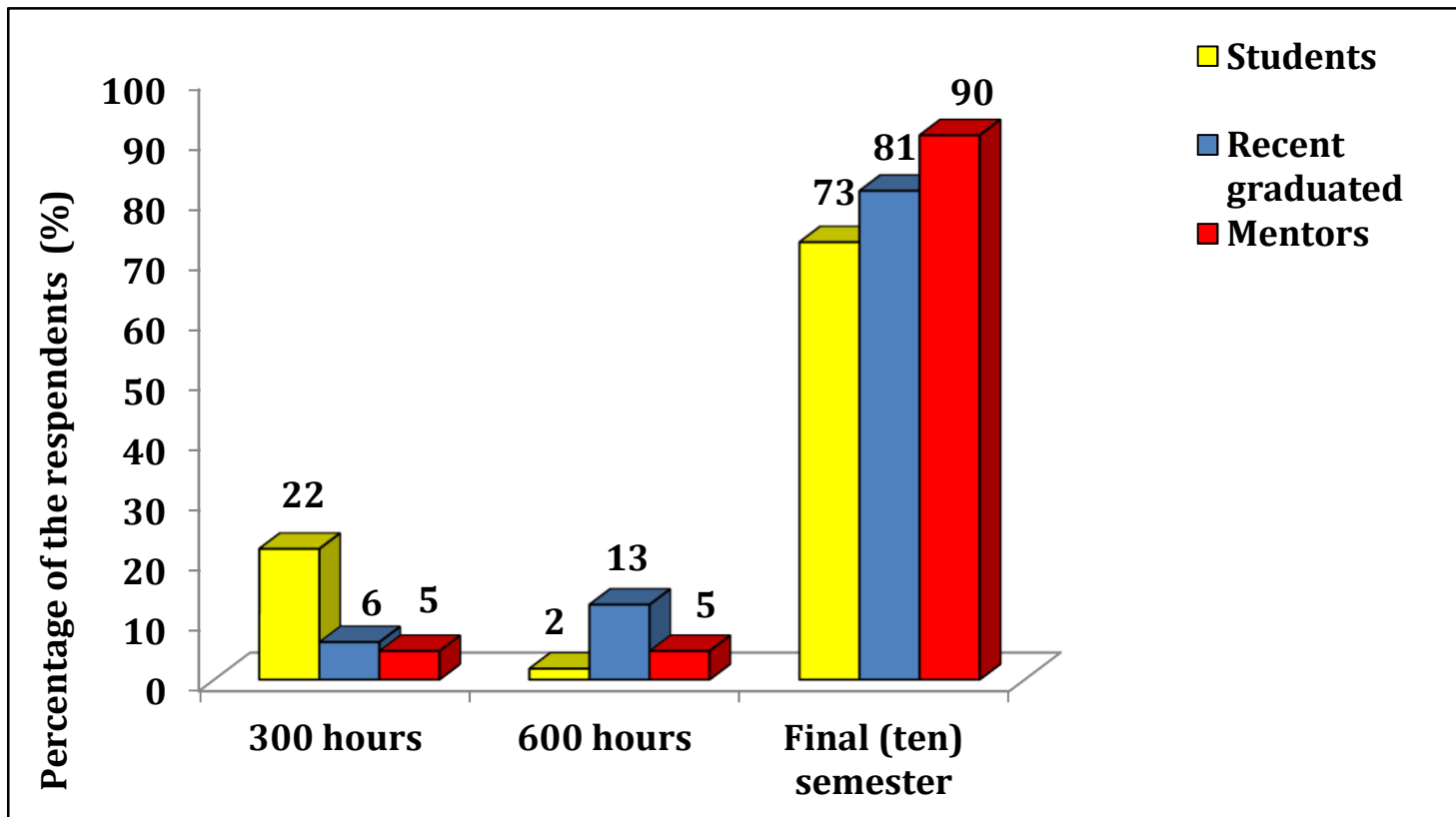




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 7. What number of hours of PSP do you consider equivalent to the internship?



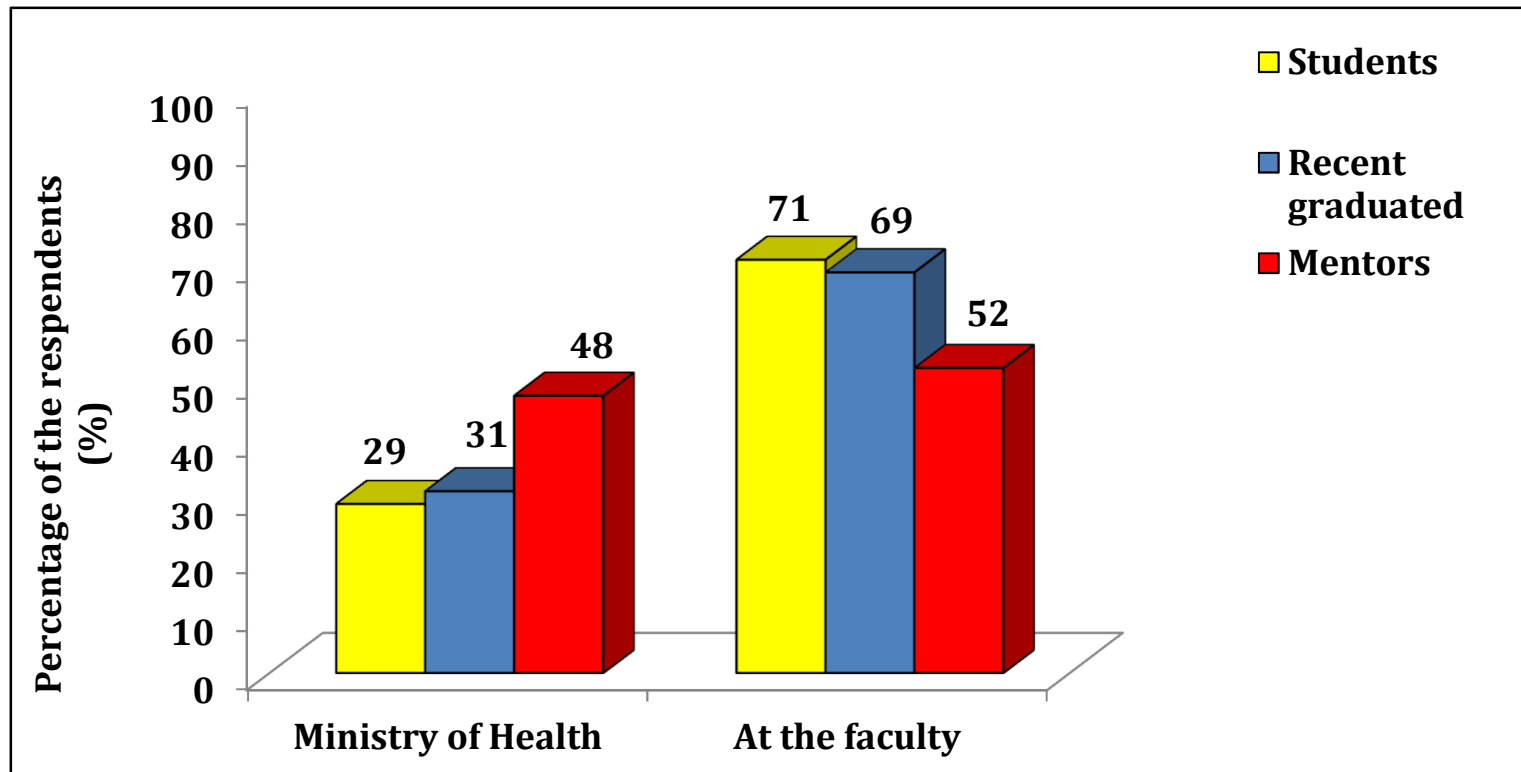




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 8. If the PSP fully replaced internship, where should state exam be carried out?

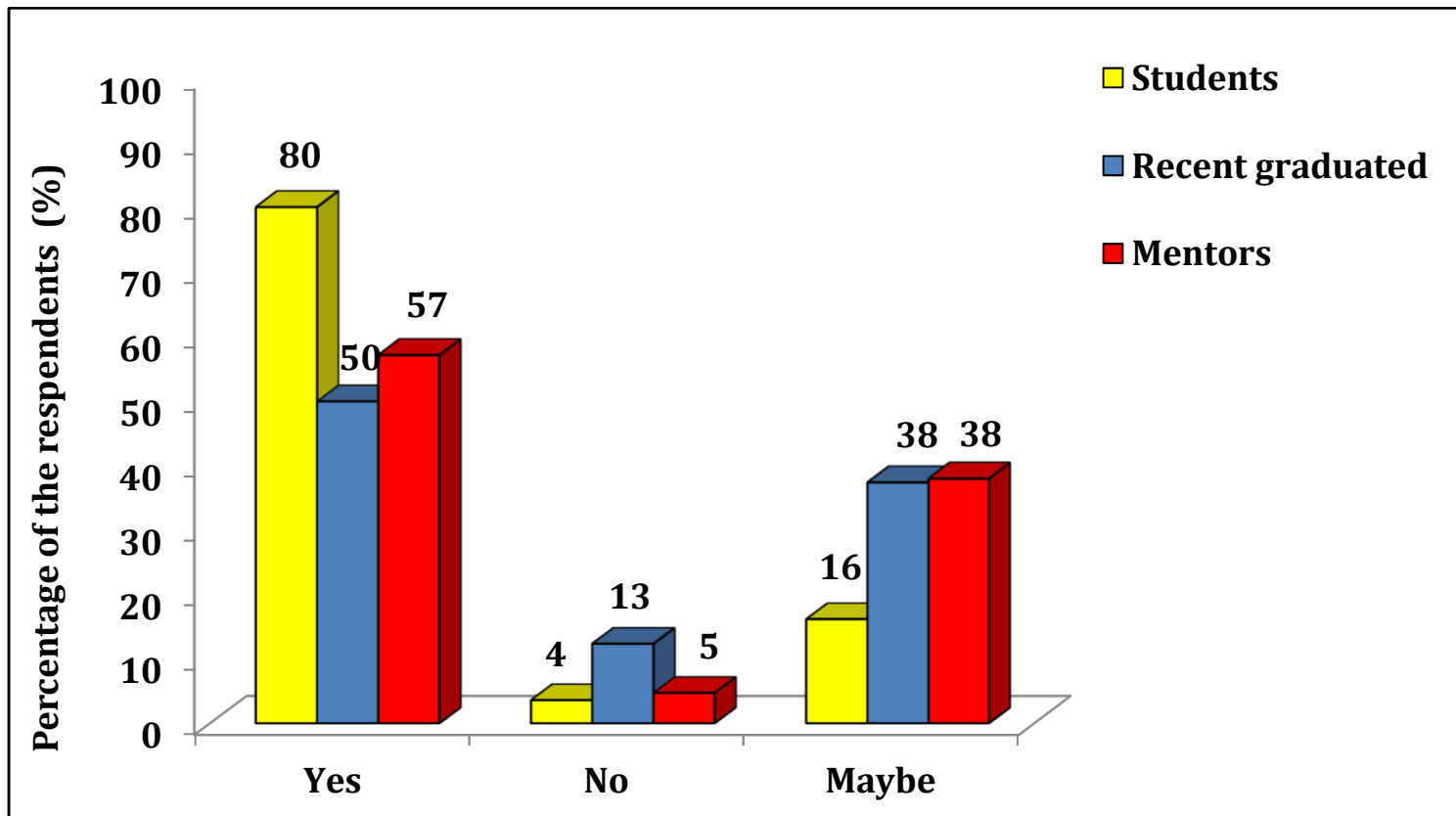




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 9. Do you think that the inclusion of mentors from practice is justified in the assessment of practical examination?





Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 10. Please rank the significance of knowledge and skills adopted during the PSP in the relation to future work of the pharmacist?

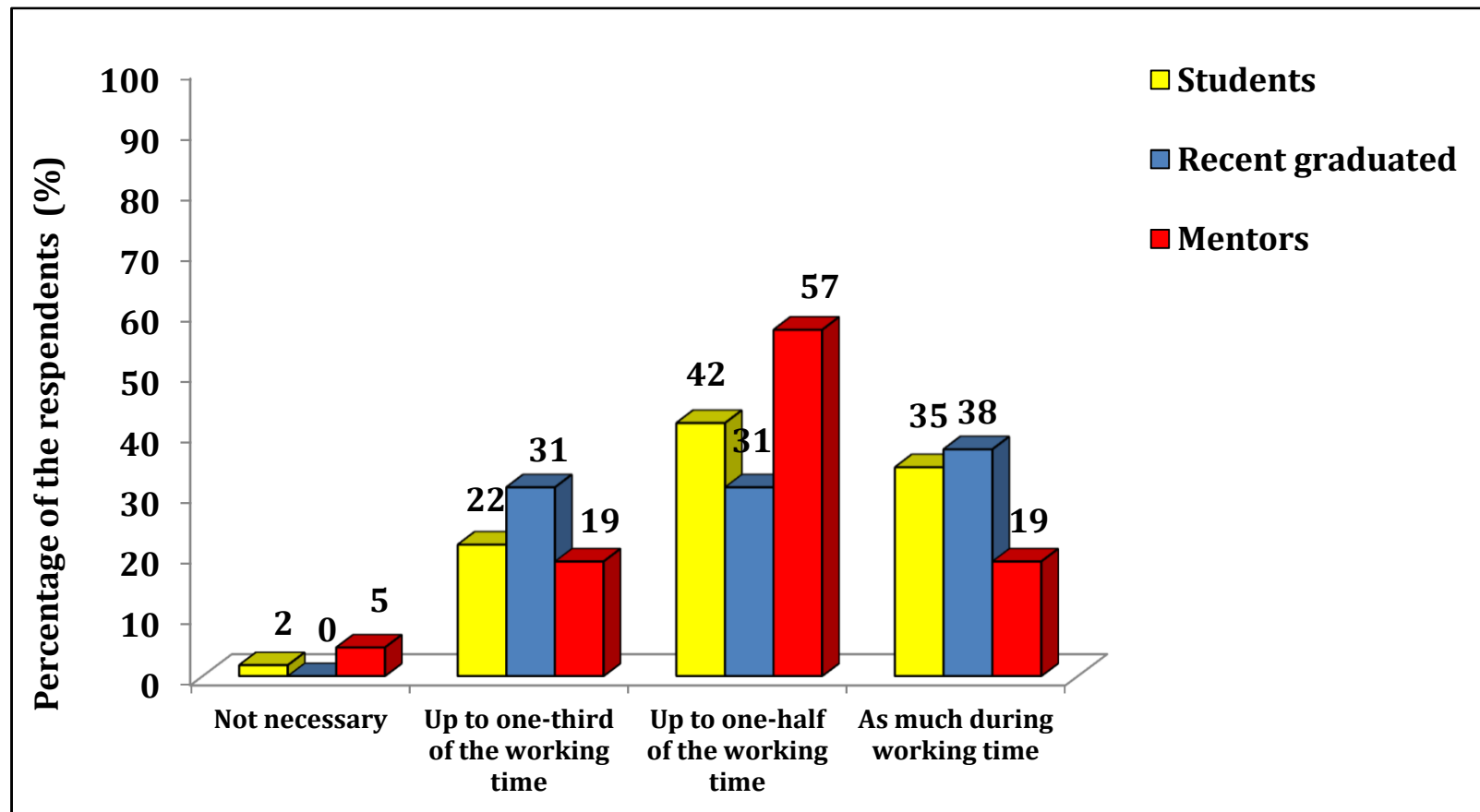
Significance	Students*			Recent graduated*			Mentors*		
	Low	Quite	High	Low	Quite	High	Low	Quite	High
<b>Introduction to the health care system</b>	12.73	56.36	30.91	18.75	68.75	12.5	19.05	42.86	38.10
<b>Purchase, receipt and storage of the medical products</b>	9.09	29.09	61.82	18.75	31.25	50	4.76	47.62	47.62
<b>Recording through the electronic database and other information technologies</b>	10.91	32.73	56.36	12.5	43.75	43.75	9.52	61.90	28.57
<b>Correct drug dispensing</b>	5.45	9.09	85.45	0	37.5	62.5	0.00	0.00	100.00
<b>Pharmaceutical compounding</b>	9.09	40.00	50.91	25	56.25	18.75	0.00	14.29	85.71
<b>Communication skills and patient counselling</b>	1.82	12.73	85.45	6.25	18.75	75	0.00	9.52	90.48



Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 11. How many hours during PSP, student should spend in direct contact with patients under the supervision of a mentor?

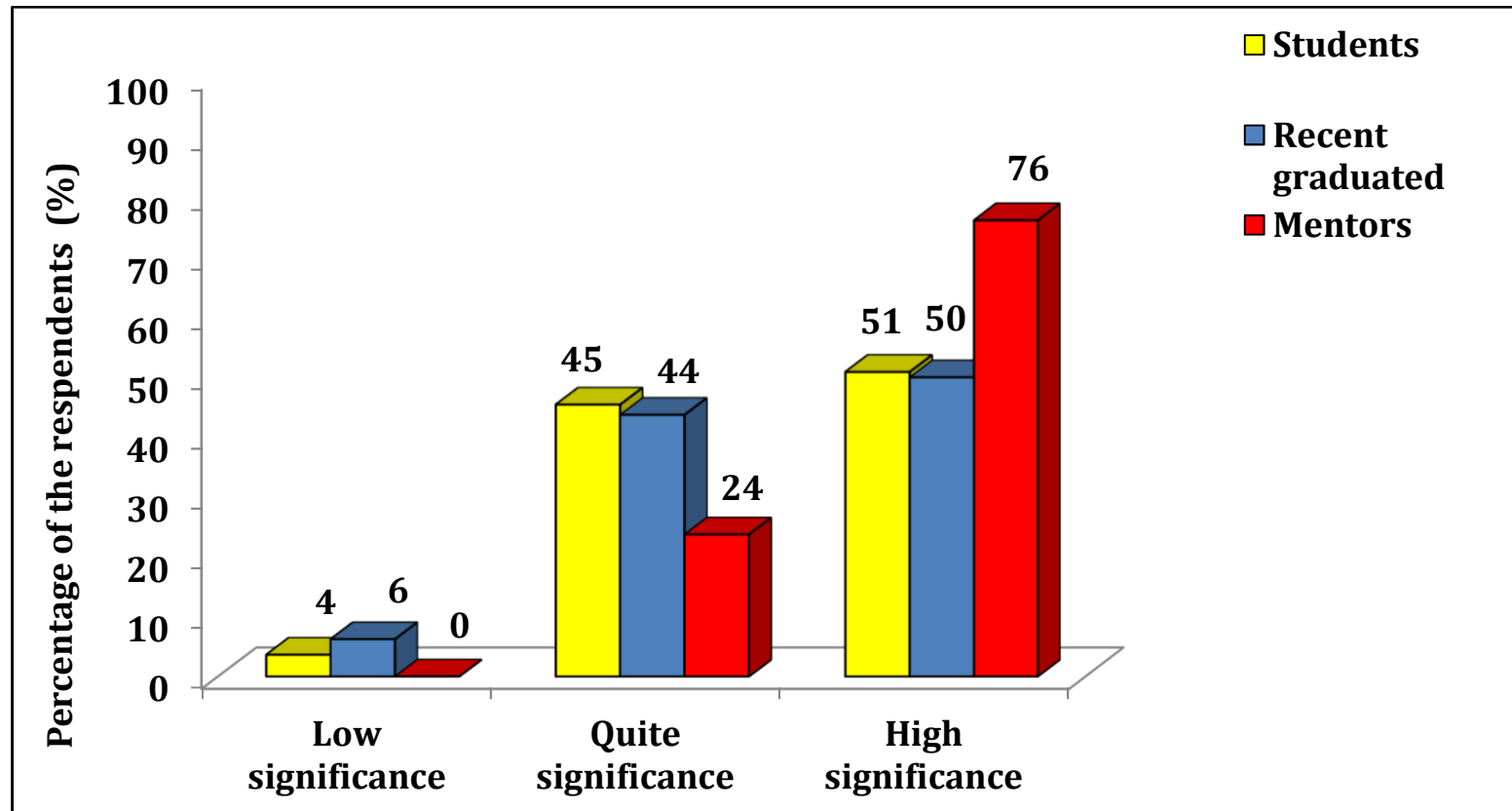




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 12. Do you consider it significant that during the PSP students should be enabling to use different sources of information?

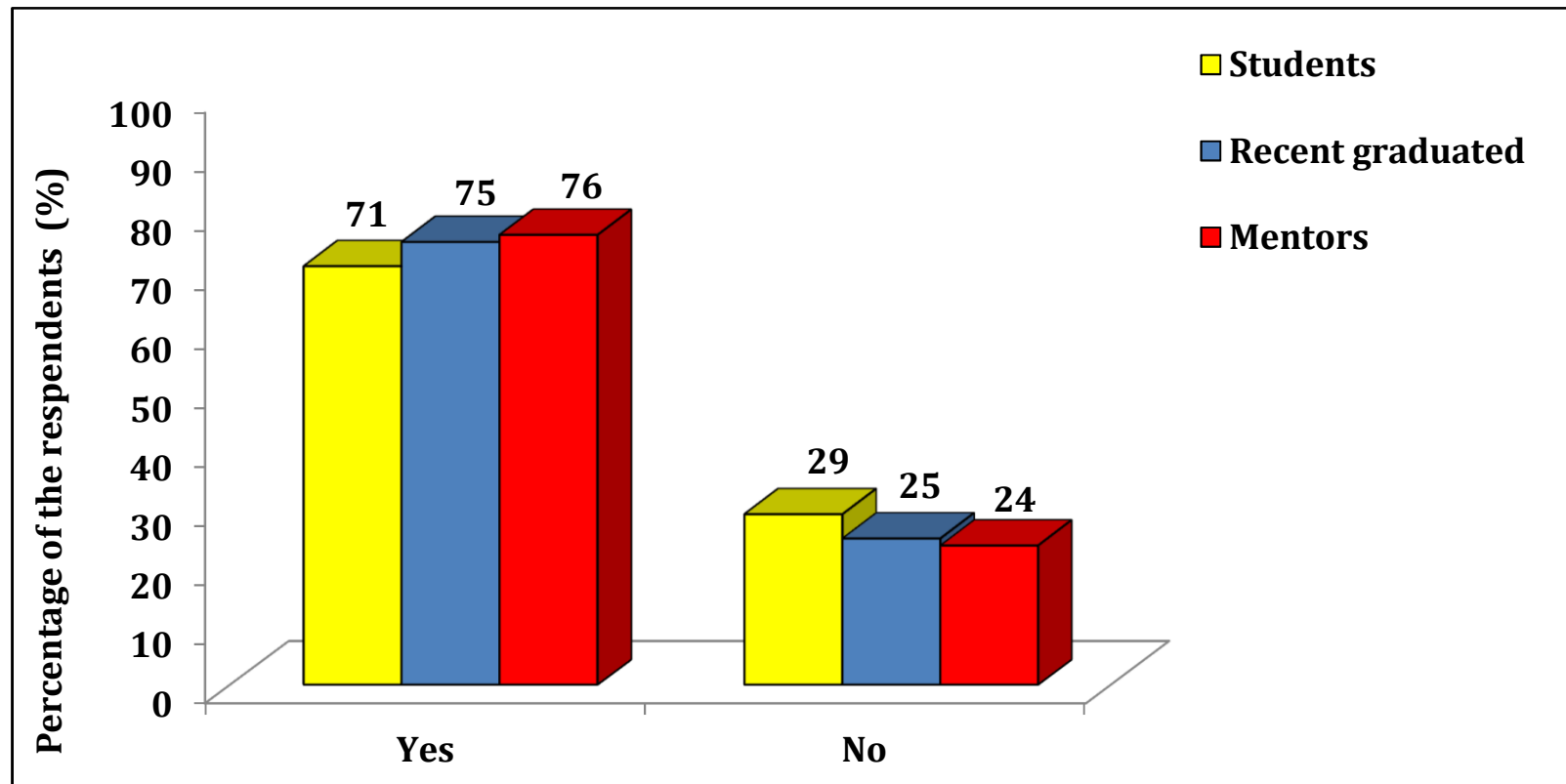




Co-funded by the  
Erasmus+ Programme  
of the European Union



## Q 13. Is there a difference between graduates with and without 100 hours PSP in their curriculum regarding activities at the pharmacy?





Co-funded by the  
Erasmus+ Programme  
of the European Union



We are thankful to dr Ivana Damnjanovic, and Dr Nikola Stefanovic for the organization of a survey whose results were presented in this paper.

THANK YOU FOR YOUR ATTENTION