

INTRODUCTION

With inter-connectivity and competitiveness developing rapidly, new opportunities are emerging for the educational system. Compounding individual drug formulations represents an inseparable component of the pharmaceutical technology curriculum at the Faculty of Pharmacy, Comenius University in Bratislava ("FPharm CU"). Increasing demand for personalised pharmaceutical products has led to a revival in pharmaceutical compounding. The present case study aims to demonstrate an innovative approach in education processes via a synergy between academy and practice.

AIM/S

Customized pharmaceutical care recognizes that each patient is unique. In close collaboration with pharmacists, prescribers determine the best dosage form, dosage strength, administration route, combination and duration of the treatment.

RESULTS

The study resulted in penetration of theory into practice, with the principal outcomes being high performance, motivation and innovations in compounding. In addition, the students from the FPharm CU in Bratislava won the international competition.

METHOD

The study involved sixty 4th year students of the Master's programme Pharmacy, two academic staff members of FPharm CU, and an external partner – Fagron, a.s., CZ (belonging to the Dutch pharmaceutical compounding company Fagron, BV), ("Company"). The educational tool was based on direct communication between them. Firstly, the Company was invited to participate in educational activities, specifically lectures and hands-on training. The students were required to engage in drug formulation compounding, to meet quality standards and other required characteristics. Secondly, eleven students participated in a local compounding competition, followed by an international competition organised between the four existing Faculties of Pharmacy of the Czech and Slovak Republics. The FPharm CU was represented by three students, who won the international round. Performance criteria included theoretical knowledge, practical skills and students' personal approach.



We can only acknowledge that the first year of the Czech-Slovak final was completely dominated by students from Bratislava. Teams from the other faculties will be challenged next year...



A total of 4 tasks in the field of Galenic Pharmacy were prepared for students, 2 theoretical and 2 practical, in which the competitors had to demonstrate practical skills.



Within the time limit (2.5 hours for all tasks) they found out how beautiful and complex, but demanding work is in the pharmacy laboratory.

CONCLUSION

This case study highlighted the potential usefulness of public private partnerships. It led to the identification of talent, the improvement of motivation and performance, and the identification of innovations in teaching, and is likely to offer win-win solutions for all stakeholders.

REFERENCES

- Leader in pharmaceutical compounding. FAGRON a.s., CZ – <https://cz.fagron.com/en-cz/>
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