Virtual Reality ★ Pediatric Nursing

**Objectives**

1. To maximize students' learning by allowing them to learn in their own pace with the use of the developed courseware;
2. To support flipped classroom implementation in the course;
3. To engage students in an active learning environment.

**Topic**

The topic was "Pediatric intravenous infusion".

**Results**

The project has been evaluated by:
1. student surveys  
2. teachers' reflection  
3. qualitative interviews.

**Achievements**

A courseware consisted of three scenarios that covered the topic has been produced and used in the course.

**Scenario 1: Pediatric intravenous infusion assessment**

The objective was to equip students with foundational knowledge in conducting assessment before intravenous infusion.

**Scenario 2: Problems solving during intravenous infusion**

The students were required to identify factors that inhibit the intravenous infusion and to consider appropriate intervention for it.

**Scenario 3: Manage complications during intravenous infusion**

A pediatric client presented with complications of intravenous infusion was shown.

**Conclusions**

The evaluation indicated that the project has achieved its objectives effectively and completely.

**Acknowledgements & Contacts**

This project is supported by Courseware Development Grant Scheme (2018-19)

Principal supervisor: Wong CL & Chan WMF  
Co-supervisor: Ngan AHY & Ip ICN  
Department: The Nethersole School of Nursing, Faculty of Medicine

---

**Teachers' reflection**

VR promoted our engagement and increased our interest in learning in the laboratory sessions.

VR allowed us to make mistakes and learn from error.

The VR scenarios were "real" and "similar to what we encountered during clinical practices".

22 students were recruited for qualitative interviews.

**Qualitative interviews**

The VR module is developed by Edvant Company Limited.

Prof. Jojo Wong  
Tel: 3943 8166  
Email: jojowong@cuhk.edu.hk