Effectiveness of the Flipped Classroom Approach Applied to Learning Skills in the Lab at Ogden-Weber Technical College

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PROJECT METHODOLOGY

The focus of this project is to implement lower cognitive levels of thinking outside of class time and higher levels of cognitive thinking during class time. With the use of pre-class materials, the students arrive to class prepared for an advanced learning experience. Three days of hands-on skills application are provided prior to passing off the skill.

Pre-Class Learning Materials
- Read chapters about tracheostomy cares
- Review step-by-step checklist
- View demonstration video
- Complete online quiz

Class/Skills Lab

After completing pre-class materials, the students are prepared for hands-on application of skills related to tracheostomy cares. The basic knowledge has been obtained, now higher cognitive knowledge can be incorporated as part of the learning process.

Evaluation

In Fall Semester 2018, there was a 60% reduction in failure rates of tracheostomy-care skills in the lab. The flipped approach has been adopted by OWTC faculty for other lab skills.

THEORETICAL FRAMEWORK

Adult Learning Theory
This theory focuses on the process of learning from the adult perspective. There is a progression of students thinking from a lower level to a higher level that comes with age and experience. (8) There are six assumptions:
1. Need to know
2. Self-concept
3. Experience
4. Readiness to learn
5. Orientation
6. Motivation

LITERATURE REVIEW

Review of the literature compares the traditional approach with the flipped approach in a teaching setting, determining the positive attributes of the flipped classroom, such as evidence of the benefits and improvements to the learning environment. (1-7)
- Student-Centered Learning
- Self-Directed Learner
- Hands-on Learning Activities
- Self-Concept
- Pre-Class Learning Materials
- Knowledge Retention

CONCLUSIONS

The implementation of the flipped approach with tracheostomy care in the skills lab was successful because there was a 60% reduction in failures of the tracheostomy skills pass-off. All of the skills labs will currently implement the flipped approach for the following:
- Assessment
- Foley Catheter
- Medication Administration
- Wound Care
- Nasogastric Tube: Insertion, Irrigation, and Removal

REFERENCES