Danish University Colleges

Performance Analyses in an Assistive Technology Service Delivery Process

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Publication date:
2017

Citation for published version (APA):
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Aim
The aim is to describe a part of a seven-semester curriculum teaching occupational therapy students at the 5th semester in the occupational therapy process and professional reasoning by using the Occupational Therapy Intervention Process Model (OTIPM) and observation-based performance analyses in the delivery process of assistive technology services.

In Danish municipalities, occupational therapists (OTs) are responsible for the delivery of assistive technology services. The aim in the curriculum is to teach students a systematic approach when they cooperate with the client to find the best solution to the client’s problem.

Objectives
The teaching is divided into five steps (Figure a), where the students are taught in a full class with 38 students, split classes with 19 students and in groups of 3-5 students. Learning outcomes are focused on methods and principles used in the first part of the process of delivering assistive technology services.

The OTIPM is a clinical practice model outlining the therapy process, emphasizing a top-down, client-centred, and occupation-based approach. This model is used to assist the students in planning and working systematically with self-reporting/interviewing, observing and documentation, in the evaluation and goal setting phase in the OTIPM (Figure b).

The OT students contact an adult with disabilities and plan a visit in their home. The students interview and observe the adult with disabilities doing a meaningful and relevant Activity of Daily Living (ADL) task, as a part of this person’s daily life. Based on the observation of the ADL task performance, the students evaluate its quality using an informal, nonstandardized performance analyses.

They evaluate 16 ADL motor and 20 process actions (skill items) and use a nonstandardized scale (e.g. no problem, mild problem, moderate problem and severe problem) to rate the observed quality of each performance skill.

The students make a list of all the ineffective performance skills and a list of the effective performance skills. Next, they make clusters of interrelated performance skills and write a summary statement of their observations.

Pedagogy / Educational Approach

Aim
"Any item, piece of equipment or product system whether acquired commercially off the shelf, modified, or customized that is used to increase, maintain or improve functional capabilities of individuals with disabilities" p.89

Service delivery
"Involves all facets of the process that starts with identification of the client’s needs for assistive technology and culminates with the ongoing outcome evaluation of their use of acquired technology" p.89

Topic
In this practice the students work activity-based by observing the person doing an activity and using tools and materials in their surroundings.

They train their professional basic language to describe and document the quality of a person’s occupational performance.

The students validate the summary statement in a dialogue with the person and create a solid foundation for further examination of the environment.

Acknowledgements
Thank you to PhD student Sirkø Meyer Larsen for assisting in developing the curriculum.


Figure a: Fifth Year of The Study: Case-study, Full Class Lectures 38 Stud., Split Class Lessons 19 Stud. and Case Based Group Work 3-5 Stud.

Step 1
- Performance Analyses and Documentation (5 lessons - Full Class)
  - The teacher teaches in Motor and Process Skills, videoanalysis, rating quality, defining effective/reflective actions, summary statements

Step 2
- Visiting an Adult with Disabilities In Their Home ( 2 lessons Group 3-5 Stud.)
  - The students interview and observe the adult doing a meaningful and relevant ADL task, which is a part of the person’s daily life

Step 3
- Assessing the Skills and Writing a Summary of the Observation(s) ( 4 lessons Group 3-5 Stud.)
  - The students rating quality, defining the actions of performance that were effective/reflective, identifying clusters of interrelated skills, and write a summary statement

Step 4
- Presentation of Implementing a Performance Analysis (2 lessons - Split Class Lessons)
  - The groups communicate their process and results implementing the performance analysis, feedback from the students and the teacher

Step 5
- Visiting the Adult with Echolalic In Their Home ( 2 lessons Group 3-5 Stud.)
  - The students use the summary statement, discovering his/her perspective of the performance, and go further on to goal setting and examining the environment

Figure b: Adapted from: Fisher A.G. (2009) Occupational Therapy Intervention Process Model, A Model for Planning and Implementing Top-down, Client-centered, and Occupation-based Interventions, Fort Collins, CO: Three Star Press. (Revised June 2013)