Interprofessional team learning versus monoprofessional dyad learning for medical students in a clinical setting

Britta Pape, RN, MLP
University Clinic for Hand, Hip and Knee Surgery, Regional Hospital Holstebro, Aarhus University, Denmark
Two models for clinical training in an Orthopedic Outpatient Clinic

• Dyad
• Interprofessional team
Aims of the two models

– Interprofessional learning
– Monoprofessional learning
– Formation of professional identity
– Creation of a safe and challenging learning environment
– Creation of an authentic learning environment
The Dyad

- Two medical students
- Two days of practice during a period of six weeks
- Three patients a day (‘Simple’ patients)
- Have their own examination room
The interprofessional team

- One medical and one nursing student
- Two days of practice during a period of six weeks
- Three patients a day (‘Simple’ patients)
- Have their own examination room
Organization

Dyad
Staff
  – Associate professors

Pedagogy
  – Adult learning methods
  – Practice based and authentic
  – Formative evaluation

Interprofessional team
Staff
  – Clinical tutor
  – Associate professors

Pedagogy
  – Adult learning methods
  – Practice based and authentic
  – Formative evaluation
Pedagogical approach

• Students present plans for examination, treatment and counseling

• Tutors listen and ask reflective questions
Students are on their own

Final preparation

Who does what?
Students are on their own

Final check

Removal of cast
Students are on their own

Removal of sutures

Checking range of motion
Students calling for help

We are uncertain about.....

The student is still in front
After having finished the patients

• Scheduled time for the students to discuss lessons learnt – what went fine – is there anything we will do different next time?
• Reflective feed back with tutors
Aim of the study

To explore medical students learning outcome in an Orthopedic Outpatient Clinic:

1. An interprofessional team
2. A dyad
Method

• Qualitative approach
• Semi structured focus group interviews
• Transcription
• Systematic Text Condensation
Findings:
Perceived learning outcome in a dyad

- Students strengthened their
  - Professional identity
  - Specialized medical knowledge and capabilities
- Limited approach to the whole patient
- Supporting each other professionally and academic
  - Equality
  - Sense of security
  - Take examples from each other
- Computer and software training
- Sharing responsibility
- Perceived themselves as students
- Does not reflect real life
Findings:
Perceived learning outcome in an interprofessional team

- Students strengthened their
  - Professional identity
  - Interprofessional knowledge and capabilities
  - Monoprofessional knowledge and capabilities
- Felt like a doctor
- Computer and software training
- Learn to handle unexpected situations
- Insight in administrative tasks
- Knowledge about primary care and treatment
- Holistic understanding of the patient
- Reflect real life
Essential perspectives about supervision perceived by the students

• Supervision eliminates insecurity whether their standard of academic knowledge is sufficient

• Supervision before - makes sense of security:
  – Of knowledge and capabilities
  – To take on responsibility

• Supervision after :
  – Makes a profound certainty in professional identity needed in their future work as professionals
Conclusion

• Training in dyad the students learn specialized medical knowledge and capabilities. They are focused on the injury and treatment of the injury.

• Training in interprofessional team the students connect their medical knowledge with the practical meaning for the patients dayli life and they get a profounding understanding of what is important particular for the patient and thereby see the patient as a whole.
Conclusion

• Authenticity in the treatment of outpatients and the collaboration in the interprofessional team expand the students’ knowledge about the organization, needed in their future work as professionals.

• In correlation of learning outcomes the two models are different, but complement the skills needed in their future work as professionals well.
Thank you for your attention

For more information please contact: Britta.Pape@vest.rm.dk