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#### **Enhancing Learning Outcomes in an Intervention Based Orthopedic Course**

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# Enhancing Learning Outcomes in an Intervention Based Orthopedic Course

Kathryn Kita, OTD/S

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# Belmont University School of Occupational Therapy

#### Mission

The School of Occupational Therapy provides comprehensive graduate education within a Christian learning environment to enable students from diverse backgrounds to positively impact the community at large and enhance the human condition through appreciation of diversity, problem-solving, and utility of meaningful, and purposeful occupations.

#### Vision

The School of Occupational Therapy's vision is to offer a comprehensive education to graduate students in a Christian environment, preparing them to become, and continue to be, occupational therapy practitioners who are committed to evidence and occupation- based practice, life-long learning, service, and advocacy.

## Identified Needs

## Occupational Performance 1 Course

• Educational material to supplement important concepts covered in lecture

## Occupational Therapy Graduate Students

- Hands-on experiences to practice skills
- Experimental learning

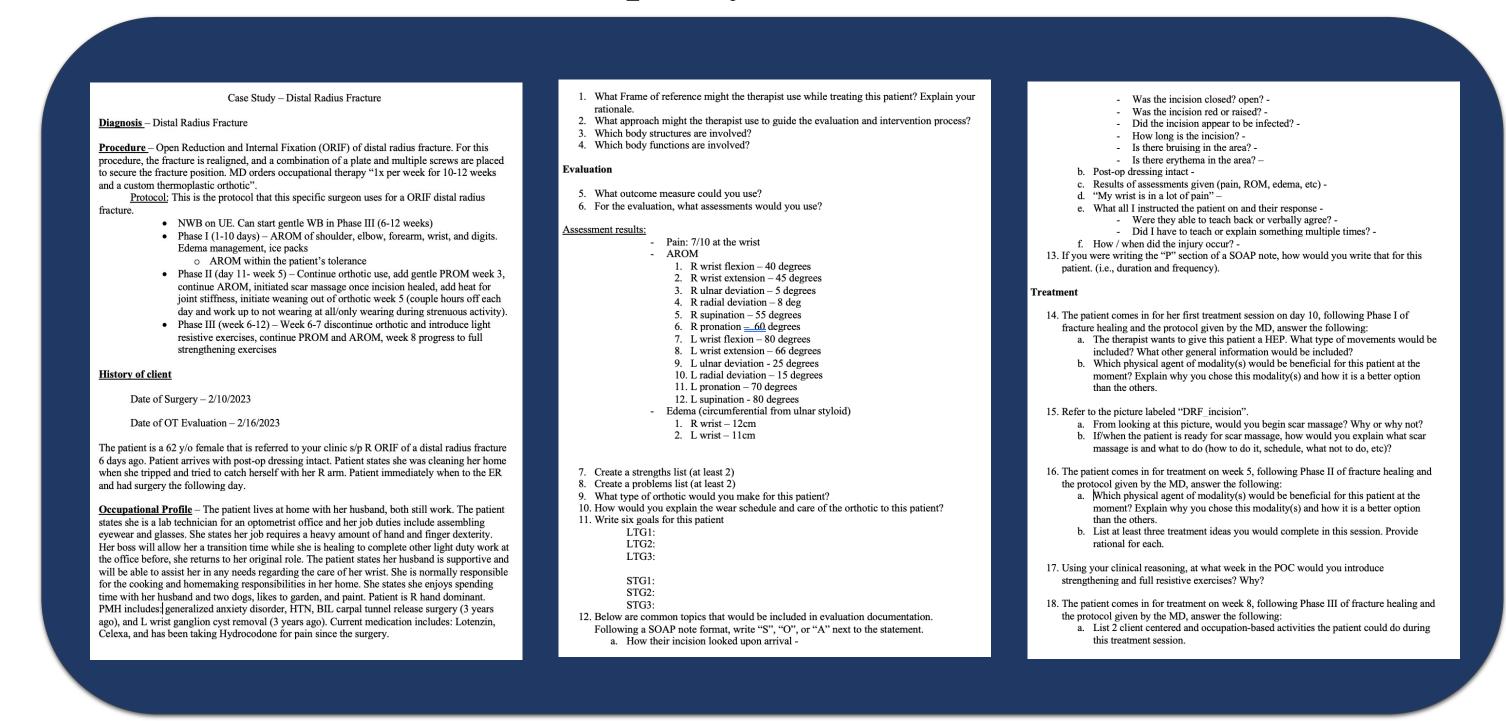
## Learning Objectives

- Enhance student learning outcomes in the OP1 course by providing educational resources and extracurricular review sessions.
- Assess effectiveness of educational resources given to students.
- Explore options for translating the educational material to additional settings.
- Review the OP1 course learning objectives and materials to ensure the findings of current practice techniques are implemented.
- Create and implement 2-3 video based clinical case studies for the OP1 course.

# Deliverables

#### **Case Studies:**

• Studies include post-op: Distal radius fracture, Carpal tunnel release, and CMC arthroplasty.



## **Supplemental Videos:**

• Videos include: Pendulum body mechanics, post-op shoulder bed mobility, in-hand manipulation skills, Moberg pick-up test instructions, shoulder joint protection, and videos of evaluation and treatment sessions that coincide with the case studies





## Acknowledgments

I express my sincere gratitude to the following:

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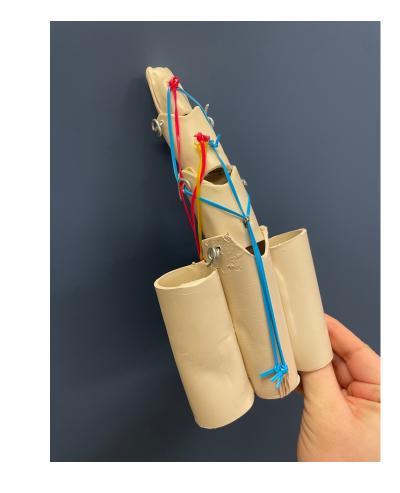
# References Available Upon Request

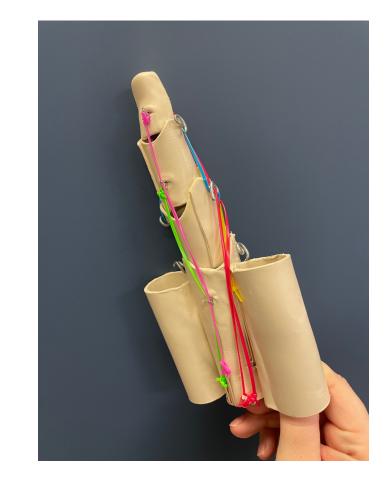
#### **Student Review Sessions:**

• Review sessions include: Shoulder provocative tests, peripheral nerve injuries, elbow tendinopathies, finger deformities and injuries

## Fabrication of orthotics and a 3D finger model:

- Orthotics include: Forearm and hand-based thumb spica, volar wrist cock-up, resting hand, ulnar gutter, anti-claw, and a variety of finger orthotics
- Fabricated a life-size and dynamic model of a finger that shows the relationship of the tendons and structures in the finger when an injury occurs.







## Project Outcomes

Created pre and post surveys using a Likert scale for students to complete at each review session. A statistical analysis using a paired sample t-test was ran for each topic, significance was found at a  $\leq 0.01$  value for each.

