

## Guidelines for the Clinical Track NCOPE Residency (*Standards of Accreditation for the Orthotic/Prosthetic Residency Program, reference Standard 2.6.2.1*)

Every quarter one of the following activities must be completed (a total of four for the 12-month and a total of six for the 18-month combined programs).

**Critically Assessed/Appraised Topic (CAT)** - A CAT is a brief summary of the most currently published research that is used to answer a specific clinical question. The research should be published within the last 15 years. The author defines the scope of the CAT based on his/her knowledge of the topic and research at hand. The CAT is a brief critical appraisal of the current literature. It may be used to inform clinical practice as a secondary knowledge source.

*The CAT should be uploaded to Typhon in the documents section along with references*

**Journal Club Presentation-** A journal club discussion should occur with a minimum of five participants. These can be peers from your office, residents in the local area and/or other members of the rehab field outside of orthotics and prosthetics. Below you will find a suggestion of topics that can be discussed during the journal club. A one page write-up of the article and discussion must be uploaded to Typhon.

Journal articles can be found in the JPO at <http://www.oandp.org/jpo/>

The Academy releases literature updates monthly. Many of these articles are free to access of you can contact the Academy for assistance in obtaining the article. [http://www.oandp.org/literature\\_update/](http://www.oandp.org/literature_update/)

### Considerations When Analyzing and Assessing Journal Club Articles

<p><b>Abstract</b> Is the abstract formatted appropriately? Are the relevant results conveyed in the abstract?</p>
<p><b>Introduction</b> Who is the intended audience for the selected article? What is the potential impact of the study on the practice of orthotics and prosthetics?</p>
<p><b>Methods</b> Was the study design appropriate for assessment of the hypotheses? Did the authors utilize randomization and blinding? Did the authors describe their selection criteria for the enrollment of subjects? Are the measurement instruments valid? Could you recreate the study with the information provided? Consider the sample size and its impact on statistical testing?</p>
<p><b>Results</b> Are the results clearly and concisely presented? Were text and figures utilized well to convey relevant data?</p>
<p><b>Discussion</b> Are the conclusions supported by the data presented? Did the authors provide recommendations for future research?</p>

Suggestions when creating a PowerPoint presentation as a visual component for all or part of the **Journal Club Presentation**

### **Details to include in Power Point:**

- ❖ **Authors, Title, Journal (volume#, pages)**
- ❖ **Background:** What is the topic
- ❖ **Purpose of study:** Why is it important?
- ❖ **What are the primary goals or aims of this study?** Current knowledge on topic/gaps in knowledge.

### **Researcher questions/hypotheses:**

- ❖ **Does the Author have a research question or hypothesis?**
  - ❖ **Concepts/Definitions:** List Ideas, concepts on this study and author's definitions.
  - ❖ **Methods of study:**
  - ❖ **Qualitative:** data that is numerical or categorical, usually using statistical analysis.
  - ❖ **Qualitative:** data that is non-numerical, interviews, observations.
  - ❖ **Variables of study:**
  - ❖ **Independent:** a variable that is expected to cause a change or difference
  - ❖ **Dependent:** what is expected to be different?
  - ❖ **Correlation:** correlating variables in the study
  - ❖ **Data:** How was data collected: control groups?
  - ❖ **Tools, questionnaires, used:**
  - ❖ **Did the study use a reliable and valid method of collecting data?**
  - ❖ **Inclusions/exclusions:** of study subjects
  - ❖ **Sample methods:** How were subjects selected? Sample size?
  - ❖ **Results:** what statistical and data was collected to answer research questions, hypothesis or aims?
  - ❖ **Discussion/conclusions:** How does the research results compare with research question, hypothesis, aims?
  - ❖ **Strengths and limitations:**
  - ❖ **What was valid about the study? What are weaknesses of the study?**
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**Case Presentation-** A case presentation should be patient related. It should include patient evaluation, treatment plan, implementation of treatment plan and follow-up. Pictures and video

would be helpful but are not mandatory. A PowerPoint presentation or similar slideshow or 1-2 pages written report should be uploaded to Typhon. The case presentation should be given to an audience of peers and signed off by the Resident Director. Ideally this should be a case that interesting and notable for some reason and requiring the use of a custom solution. Below is a sample of

<b>Date:</b>
<b>Age:</b>
<b>Height:</b>
<b>Weight:</b>
<b>Sex:</b>
<b>Occupation:</b>
<b>Prescription RX: (what did the doctor recommend you provide)</b>
<b>Diagnosis DX:</b>
<b>Available medical history:</b>
<b>History HX:</b>
<b>DOI: (date of injury if applicable)</b>
<b>Surgery: (any surgeries relating to injury)</b>
<b>Prior treatment: (physical therapy etc.)</b>
<b>Past orthotic treatment: (Previous orthotics if applicable: State have never used orthotic devices if applicable)</b>
<b>Objective findings:</b>
<b>Physical exam:</b>
<b>Muscle Test: Muscle testing results of affected and non-affected limbs.</b>
<b>ROM: Range of Motion of affected and non-affected side:</b>
<b>Shrinkage: (Applicable for prosthetics)</b>
<b>Biomechanical description of functional loss/instability:</b>
<b>Condition of current device:</b>
<b>Assessment:</b>
<b>Patients skin condition:</b>
<b>Observations quietly standing:</b>
<b>Observations of barefoot gait:</b>
<b>Current device evaluation/opinion:</b>

<b>Analysis/prediction of functional K level: (prosthetics)</b>
<b>Prognosis:</b>
<b>Analysis of current problem:</b>
<b>Level of independence:</b>
<b>Plan:</b>
<b>Current service provided at each patient encounter: (evaluation, fitting, adjustment)</b>

**Professional In-service-** A professional in-service does not have to be patient related. This can be given to a group of peers in the office, at a referral source’s office, physical therapy office, hospital or similar professional setting. Discuss a potential topic with your resident director. Submit presentation with date on to Typhon.

**Presentation at Grand Rounds, State, Regional, National or International Meeting-** Some residency sites closely tied to a hospital may attend Grand Rounds and you could present a cast presentation or in-service. If you are interested in presenting at the state, regional or higher level more information can be found at the Academy Student-Resident Committee at <http://www.oandp.org/src/> or contacting your local chapter. Contact information can be found at <http://www.oandp.org/membership/chapters/>

**Residency Director’s and Mentor’s will also attest to the completion of the clinical track activities within the quarterly evaluation form.**