



# Craniosynostosis: The Principles of Correction

## COURSE SYLLABUS

May 6, 2021

COURSE DATE

Live Webinar

LOCATION

12:00 pm CST

TIME

Shannon O'Shea, CPO

COURSE PRESENTER & CREDENTIALS

### COURSE SUMMARY

Research indicates that approximately 1 in every 2,500 babies is born with craniosynostosis in the United States<sup>1</sup>.

Craniosynostosis is the premature fusion of one or more sutures that prevents the normal perpendicular bone growth of a baby's skull. As a result, the bones grow parallel to the suture, resulting in problems with skull growth, brain growth, and, potentially, increased intracranial pressure. Without intervention, symptoms can include blindness, seizures, and brain damage. For this type of cranial deformity, treatment is time-sensitive. When diagnosed early, families may be given the surgical option to have the fused piece of bone along the suture line removed. Depending on the type of surgical procedure, a custom cranial remolding orthosis may be prescribed postoperatively to correct asymmetry and/or disproportion.

Correction of craniosynostosis requires strong collaboration between surgeon and orthotist to allow for smooth orchestration of treatment before, during, and after surgical intervention. Through interactive case studies, the goal of this session is to provide an overview of the principles of correction, both surgical and orthotic, based on the various types of synostosis. This course also covers design considerations relating to cranial remolding orthoses and the collaborative care approach needed to improve patient outcomes.

**Target Audience:** Physical and Occupational Therapists, Nurses, Case Managers, O&P Clinicians, and others who provide care for this patient population.

**Educational Level:** Intermediate

### OBJECTIVES

Upon completion of this program, the participant will be able to:

1. Identify the various types of craniosynostosis and resulting phenotypes
2. Outline the goals of correction based on directional growth needs, cephalic index, and other factors
3. List general protocol for pre- and post-operative scanning and delivery
4. Describe the various postoperative cranial remolding orthoses designs and the impact the surgeon and surgery may have on design selection

### COURSE OUTLINE

1. Sign In
2. Pre-test (if required)
3. Lecture (60 minutes)
  - Principles of Correction
    - Craniosynostosis and resulting phenotypes
    - Goals of correction
    - Protocol, scanning & delivery
    - Postoperative cranial remolding orthoses
  - Questions and Answers
4. Post-test (if required)
5. Course Evaluation (online) & Sign Out

### CONTINUING EDUCATION REQUIREMENTS

**In-Person Sessions:** All attendees are required to attend the entire session, sign-in at the beginning and at the end of the course.

**Webinar Sessions:** All attendees are required to attend the entire session, and complete a credit request form and evaluation following the session. Throughout the presentation learning outcomes will be assessed through instructor interaction and attendee's participation through Q & A.

**Credits Available:**

PT, OT, RN, CM: 1.0 contact hours/credits (visit the course page for information on accrediting bodies)

Physicians: None Available; Course Completion Certificate offered only

### SPECIAL REQUESTS

Hanger Clinic strives to make our learning environments fully accessible and want to provide our guests with an opportunity to identify special needs in advance of the course. Please contact your course coordinator.

**PLEASE NOTE:** If course tuition is required, see the course flyer for the policy on fees and cancellation charges. If Hanger cancels for any reason, a full refund of the course tuition paid to Hanger will be given.

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