

## Case Study: 3D Printed Cranial Remolding Orthosis (CRO)



**Patient Name:**  
Milo Matthews

**Date of Birth:**  
2024-06-26

**Age:**  
0 years, 6 months  
and 28 days

**Initial Visit Date:**  
November 7, 2024

**Graduation Date:**  
January 6, 2025

### Introduction

When Milo's mom, Olivia, first raised concerns about her 7-month-old's head shape, his pediatrician referred her to a local orthotist for a cranial remolding orthosis. After hearing about traditional and 3D printed options, Olivia felt confident in choosing Surestep's new Sprout3D™ helmet due to its lightweight structure, single-sided hinge opening (making it easier for busy parents to open with only one hand), the perforated foam for better ventilation, and a plagiocephaly-specific trim line.

### Summary

After being measured by his clinician, Milo's helmet was fabricated with top-of-the-line 3D printing technology, allowing for a quick turnaround time and a precise fit – resulting in minimal modifications.

Milo's helmet journey was a breeze for both Milo and mom, with Olivia saying, "When I took my son to his pediatrician, she couldn't believe how easy it was to take the helmet on and off. The unique snap-on feature was probably the most raved about in my circle of friends and family."

Throughout the helmet journey, Milo went through a couple growth spurts and received quick adjustments with minimal modifications – providing ease and comfort for both Milo and mom. Thanks to Sprout3D's breathable features, Milo stayed cool despite his hot nature, and Olivia was able to easily clean the helmet.

### Results

With his measurements moving from moderate severity to the normal range, Milo successfully "graduated" with flying colors after only two short months! Olivia states, "I would recommend Sprout3D™ to anyone who is considering a helmet for their child. I truly could not have asked for a better experience for my son."

