Dynamic Splinting for Pediatric Tone Management of Upper Limb with Contracture Reduction: a Case Report

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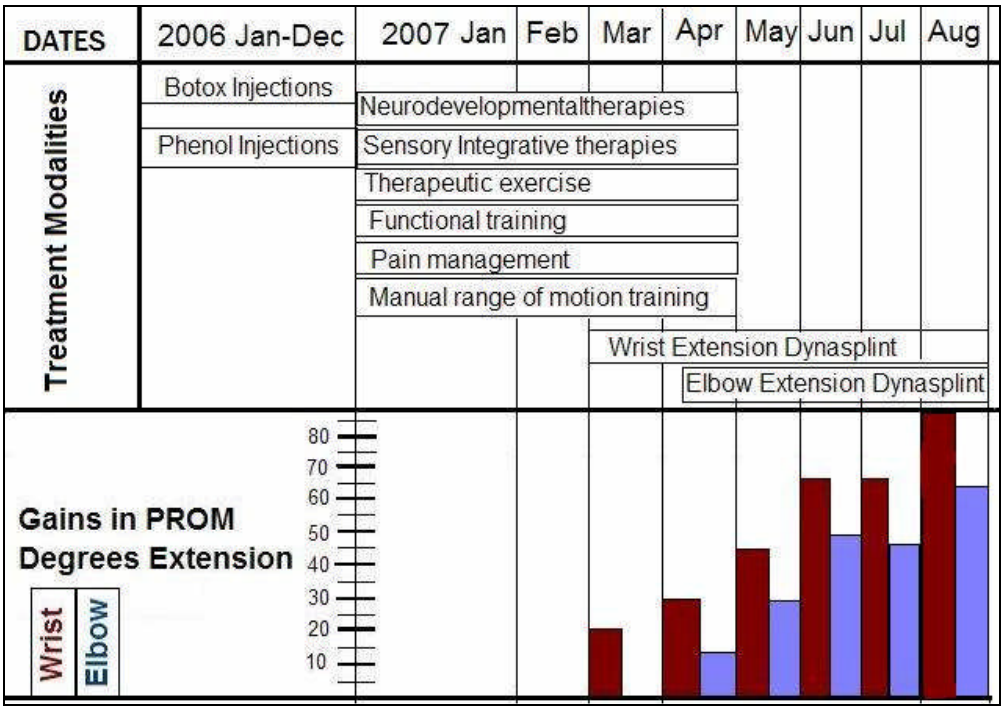
Abstract

This report is based on the case of a 5-year-old boy who is a victim of "shaken baby syndrome." Over the course of treatment, multiple modalities were used to manage his tone, decrease spasticity, and to reduce wrist and elbow contractures. Dynasplint systems proved to be the most effective treatment measure for this patient, surpassing other common approaches to improve his range of motion.

In six months, the patient's passive wrist extension progressed **90 degrees** and ulnar deviation improved by 15 degrees while using the Dynasplint wrist extension unit. In five months, this patient has gained **60 degrees** in elbow extension (passive range of motion) and has also improved his elbow resting position by 45 degrees while using the Dynasplint elbow extension device.



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