

Analysis of orthopedic surgical procedures in children with



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**Lengthening Procedures**

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Abnormal muscle tone makes it hard for many cerebral palsy patients to comfortably move and walk. Lengthening procedures help correct muscle stiffness and spasticity caused by CP. In combination with other forms of therapy, muscle and tendon lengthening improve patients' muscle control and range of motion – promoting better balance, coordination, and mobility. 1. Muscle Lengthening – Spasticity and contracture limit range of motion, interfering with ambulation and fin...

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**Manuscript Type:** ORIGINAL ARTICLE

*Retrospective Cohort Study*

**Analysis of orthopedic surgical procedures in children with cerebral palsy**

Rehbein I *et al.* Surgical procedures in children with cerebral palsy

Ignacio Rehbein, Viviana Teske, Ignacio Pagano, Alejandro Cúneo, María Elena Pérez,  
Johan von Heideken

## Abstract

### BACKGROUND

Orthopedic surgery in children with cerebral palsy (CP) aims to improve function and prevent deformities. Each child's condition in CP is unique and many co-variables influence surgical decision-making including a patient's age and their functional level. Little is known about the frequency of different types of orthopedic surgery in children

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## Cerebral Palsy

Medical Condition



A group of disorders that affect movement, muscle tone, balance, and posture.

- 📊 Common (More than 200,000 cases per year in US)
- 🧪 Often requires lab test or imaging
- 🔧 Treatments can help manage condition, no known cure
- 🕒 Can be lifelong

It is caused by abnormal brain development or damage to part of the brain that controls muscles. It affects movement, balance, and muscle tone leading to rigidity in the joints, involuntary movements, and exaggerated reflexes. Treatments include medications, physical and occupational therapies, psychological therapy, and surgeries to treat deformities.

### Symptoms

Signs and symptoms generally appear during infancy or preschool years



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