



### 3. CONGENITAL ANOMALIES IN NEWBORNS: SYNDACTYLY

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**Introduction.** The name of „hand” comes from the Latin „manus”, derived from „manipulus”. The hand is the most perfected segment of the human locomotor system and is a complex organ made up of 27 bones, 27 joints and 19 muscles. Any congenital defect negatively affects its function, but also affects its cosmetic appearance. , from this deriving other roles due to the wide range of movements and the high precision of which the hand is capable.

**Aim of study.** Study of the characteristics of the birth defect syndactyly, including its causes and manifestations.

**Methods and materials.** A literature search was conducted to identify and evaluate birth defects specifically associated with “neonatal syndactyly.” The most relevant and recent articles were selected such as “Orthopedic Journal of Sports Medicine,” “Orthopedics and Related Research,” “Kraus R, Pavlidis T, Heiss C, et al. Arthroscopic treatment of post-traumatic shoulder instability in children and adolescents.” Basic textbooks on “Congenital pathologies of the musculoskeletal system,” Shvedovchenko I.V. Congenital hand defects in children”, “Erofeeva G.I., Goryunov O.F. Long-term results of surgical treatment of syndactyly”, “Shvedovchenko I.V. Congenital malformations in children.”

**Results.** Syndactyly occurs when the digits fail to fully separate into individual fingers and toes, is a congenital malformation that is becoming more common lately. About 10 to 40 percent of children with syndactyly inherit the condition from a parent. Syndactyly is formed during pregnancy, more precisely during the gestation period. Syndactyly begins in week 6-8 of pregnancy, without affecting vital functions. Syndactyly is the most common malformation of the hand, present in 1 in 2000 births. It affects the male sex more frequently in a ratio of 2/1. The only symptom of syndactyly is your child having two or more fingers or toes fused together. The fused digits will be visible at their birth. In most cases, there is nothing a mother or father did to cause this abnormality and there was nothing that he or she could have done to prevent it. But sometimes, syndactyly happens as part of a genetic syndrome.

**Conclusion.** Syndactyly itself is not an indication for surgery if the only problem is its awkward appearance. However, syndactyly that interferes with daily movements requires surgery. To make your fingers lighter and more functional.