

# Treatment of Combined Spinal Deformity in Patient with Ollier Disease and Abnormal Vertebrae

We report staged treatment of severe combined spinal deformity in an 11-year-old patient with Ollier disease and abnormal cervical vertebra. Combined scoliosis with systemic pathology and abnormal vertebrae is a rare condition and features atypical deformity location and rapid progression rate and frequently involves the rib cage and pelvis, disturbing the function of chest organs and skeleton. Progressive deformity resulted in cachexia and acute respiratory failure. A halo-pelvic distraction device assembled of Ilizarov components was employed for a staged surgical treatment performed for lifesaving indications. After vital functions stabilized, the scoliosis curve of the cervical spine was corrected and fixed with a hybrid system of transpedicular supporting points, connecting rods, and connectors that provided staged distraction during growth. The treatment showed good functional and cosmetic result.

治療 Ollier 病和脊椎異常病人的聯合脊柱畸形

我們報告階段性治療一名 11 歲患有 Ollier 病和頸椎異常的患者的嚴重聯合脊柱畸形。聯合脊柱側彎和系統性病變及椎體異常是一種罕見的情況，具有非典型畸形位置和快速的進展速度，並經常性涉及肋骨和盆骨，干擾胸部內臟和骨骼的功能。進展的畸形導致的惡質症和急性呼吸衰竭。頭盆環牽引裝置組裝 Ilizarov 組件應用在分階段手術治療中以作救生指示。在維生功能穩定後，矯正頸椎的脊柱側彎曲線和以混合動力系統固定包括經椎弓根支撐點，連接支架和連接器，在生長過程中提供了階段性拉張。治療表現出良好的功能和美容結果。