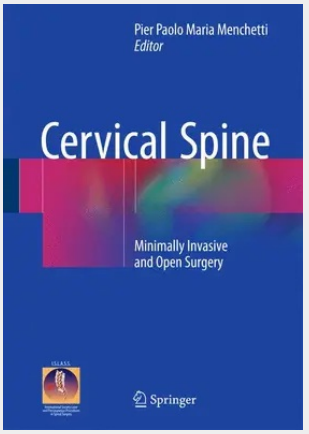
Menchetti

Cervical Spine

Minimally Invasive and Open Surgery



This book details the current status of cervical MISS for expert surgeons, young surgeons or clinicians, and residents and fellows with little or no experience on this field of surgery. Because of the involvement of different and highly trained specialists from all over the world, the aim of this book is to satisfy the requirements for knowing the most advanced surgical techniques and their application. Also included are the indications and surgical techniques involving an open standard approach, giving a most exhaustive knowledge of the cervical spine surgery. Due to the difficulty of finding books with both minimal invasive cervical spine surgery and more conventional standard “open” surgery, the benefit of this book is to permit the surgeons and residents and medical doctors, to have a more complete and immediate knowledge of the topics. Due to the scientific multidisciplinary nature of the MISS, several professionals such as orthopedic surgeons, neurosurgeons, radiologists, anesthesiologists and pain management specialists, have been involved in order to create a book in which all the aspects of MISS have been treated.

This book addresses conventional and minimally invasive surgery of the cervical spine to cater for both experts and young surgeons with less experience in this field of surgery. It is written by a group of highly trained specialists from all over the world, who present the requirements for the most advanced surgical techniques on the cervical spine. Most of the chapters concern the osteodiscoarthrosic pathology, the main condition responsible for chronic cervical and/or radicular pain. Step by step presentations of the most advanced MISS (endoscopy) and standard procedures such as ACDF (anterior cervical decompression and fusion), using cages or autologous bone, posterior approach to axis instability, minimally invasive stabilization systems, and cervical disc arthroplasty are examined for the treatment of the osteodiscoarthrosis. Looking towards the future, this book also includes chapters about the role of materials in cervical spine fusion and biomechanical engineering evaluation in cervical tribology. Considering the growing incidence of cervical spine discoarthrosis, the authors aim to provide an expert overview of cervical spine surgery to assist the medical community with treating this increasingly common pathology.

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