



## Thoracic Outlet Syndrome

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**Abstract:** Thoracic outlet syndrome (TOS) is a condition estimated to affect as many as 80 of every 1000 patients in the US alone. While estimates vary widely based in part on lack of consensus as to the definition of the syndrome, as many as 3000 first rib resections are performed annually in the US. TOS comprises at least three separate conditions. The most common, neurogenic TOS, refers to the condition where the brachial plexus is compressed at the scalene triangle or retropectoral space, and is manifest as local and extremity pain and neurologic symptoms. Venous TOS refers to the situation where the subclavian vein is compressed by the structures making up the costoclavicular junction, and presents as acute or chronic venous thrombosis or injury or occasionally intermittent positional obstruction. Finally, arterial TOS refers to the situation where arterial injury occurs as the result of abnormal bony or ligamentous structures at the outlet, and presents as occlusion of or embolization from an abnormal artery in this area. Thoracic Outlet Syndrome brings together many experts who treat this disease and are leaders in their fields. While it can certainly be read in its entirety (and should, by all who concentrate on this condition), it is designed to be a clinical reference, residing on a shelf in a busy surgical, vascular or neurologic clinic where individual chapters can be quickly referenced. As such, the chapters are thorough, but concise and useful to answer when a specific question arises in the course of daily practice.

**Contents:** Part I. Background and Basic Principles – Part II. Neurogenic TOS: General Principles – Part III. Neurogenic TOS: Surgical Techniques – Part IV. Neurogenic TOS: Outcomes and Future Directions – Part V. Neurogenic TOS: Controversies in NTOS – Part VI. Venous TOS: General Principles – Part VII. Venous TOS: Surgical Techniques – Part VIII. Venous TOS: Outcomes and Future Directions – Part IX. Neurogenic TOS: Controversies in VTOS – Part X. Arterial TOS: General Principles – Part XI. Arterial TOS: Surgical Techniques – Part XII. Arterial TOS: Outcomes and Future Directions – Part XIII. Additional Topics Related to Thoracic Outlet Syndrome.

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### **New techniques for thoracic outlet syndromes**

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Thoracic Outlet Syndrome - surgery

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Thoracic surgery  
Vascular Surgery

**Abstract:** New Techniques for Thoracic Outlet Syndromes presents in a comprehensive format an up-to-date, state of the art reference that physicians can use in consultation to properly treat patients using the resources that modern medicine offers. This book offers the newer surgical approaches that have been developed during the past 30 years. Some of these techniques are modification of operations that were proposed previously but were not fully affective and left many patients suffering with permanent disability. This textbook is a compendium of the proper management of these patients that cannot be found in isolated reports of literature.

The neurogenic-arterial thoracic outlet syndrome section covers how to diagnosis the illness using the proper tests, therefore eliminating the use of expensive, uncomfortable and inconvenient tests. The text is organized in three basic sections that cover all the aspects of the thoracic outlet syndromes. The first section addresses the neurogenic-arterial type, with the pertinent subsections: symptoms, diagnosis. A list of the useful tests is provided to make a correct diagnosis of this syndrome. This is followed by the sections on treatment, using the surgical approaches with historical aspects and evolution of the operations proposed. The second section involves the venous thoracic outlet syndrome divided into the corresponding subsections comprising: symptoms and physical findings, etiology, diagnosis. This section also includes a list of the usual tests to make the proper diagnosis. The last section of this text is dedicated to the presence of cervical ribs and their classification of the different types that occur, and also the proper surgical treatment when fusion of the upper ribs is present.

New Techniques for Thoracic Outlet Syndromes offers the current, acceptable and most effective methods to handle thoracic outlet syndromes. It will be of great value to thoracic surgeons, vascular surgeons, interventional radiologists as well as fellows and residents in training for cardiothoracic and vascular surgery.

**Contents:** Section I. NEUROGENIC-ARTERIAL THORACIC OUTLET SYNDROME – 1. Symptoms of Neurogenic-Arterial Thoracic Outlet Syndrome – 2. The Diagnostic Tests – 3. Physiotherapy – 4. Surgical Treatment – 5. Supraclavicular approach – 6. Transpleural Infraclavicular Approach – 7. The Paraclavicular Approach to Address Arterial Complications – 8. The Transaxillary Alone Approach for Removal of the 1st Rib – 9. The Posterior Approach – 10. The New Dual Approach – 11. Reoperations for recurrence of neurogenic symptoms – Section II. VENOUS THORACIC OUTLET SYNDROME (PAGET-SCHROETTER) – 12. Symptoms and Physical Findings – 13. Etiology – 14. Venous Obstructions Due to Implanted Devices – 15. Diagnosis – 16. The new treatment approach to subclavian vein thrombosis – 17. Timing for Intervention and Standard of Care – 18. Thrombolytic Therapy – 19. Surgical Intervention – 20. The Transsternal Extension – 21. The Paraclavicular Approach – 22. The transaxillary approach – 23. Reoperations after failed transaxillary first rib resection for Subclavian Vein Thrombosis – 24. Vein Replacement – 25. Postoperative Care: Anticoagulants, Pain Control, and Nursing Care – Section III. THE CERVICAL RIB – 26. The Cervical Rib – 27. Fusion of Ribs – Index.

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