



Pre-published offer

30%
Off

Key Features:

- This is an international compilation of pioneering breakthrough research and insights into the field of modern cryosurgery and cryotechnology
- It is the first book to provide a comprehensive review of the mechanism, methodology, experimental and clinical results of cryosurgery for different cancers, especially for unresectable cancer
- Focuses on percutaneous cryosurgery for the treatment of tumors of diverse solid organs, such as lungs, kidneys, liver, pancreas and prostate
- Dr Nikolai N Korpan is the author and editor of the "Atlas of Cryosurgery" and "Basics of Cryosurgery", with the latter title hailed as the "Bible of Cryosurgery"
- **Exemplary lineup of chapter contributors, including Dr Sajio Sumida from Japan, the Honorary President of the International Society of Cryosurgery and Honorary Chairman of the Japanese Low Temperature Society as well as Dr David I Morris from Australia, Medical Research Foundation, the University of New South Wales**

Cryosurgery is a surgical technique that employs freezing to destroy undesirable tissue. From as early as 3500 BC, there is evidence for the use of cold in medicine for the treatment of infected wounds of the chest, fracture of the skull and various injuries. However, the history of "modern" cryosurgery is relatively short and is closely intertwined with the development in low temperature physics, engineering, and instrumentation during the last century.

From the early 21st century, advanced helium-based cryosurgery has been applied worldwide. More than ten thousand patients with malignant and benign tumors have received cryosurgery. It is specially noted that in most cases cryosurgery, as a mini-invasive ablation technique, was performed with percutaneous approach under guidance of CT or ultrasound. Cryosurgery is now one of the more popular techniques in China, with nearly 6000 cases of tumors receiving cryosurgery in the author's institution alone. This book summarizes the experimental and clinical experience and practice of cryosurgery, and describes the basics of cryosurgery and its use in the treatment of various tumors.

MODERN CRYOSURGERY FOR CANCER

edited by **Kecheng Xu** (*Chinese Academy of Sciences, China*), **Nikolai N Korpan** (*Hospital Rudolfinerhaus, Austria*) & **Lizhi Niu** (*Fuda Cancer Hospital of Guangzhou, China*)

Dr Kecheng Xu and his team, currently number one in China, have the extensive experience of more than 6000 cases of cryosurgery for various cancers

Contents:

- **General Information:** History, Development and Future of Cryosurgery
- **Basics of Cryosurgery:** Apparatus and Principle of Cryosurgery; Mechanism of Cryosurgery; Cryosurgery and Immunity; Cryosurgery and Chemotherapy; Imaging Techniques in Cryosurgery; Indication and General Evaluation of Cryosurgery for Tumors; Effectiveness of Cryosurgery for Tumors; Safety of Cryosurgery for Tumors
- **Cryosurgery for Chest Tumors:** The Feasibility and Safety of Percutaneous Cryosurgery for Experimental Lung Model; Cryosurgery for Lung Cancer; Combination of Percutaneous Cryosurgery with Photodynamic Therapy for Lung Cancer; Combination of Percutaneous Cryosurgery with Radioactive Seed Brachytherapy for Lung Cancer; Cryosurgery for Cardiac and Pericardiac Tumors; Cryosurgery for Breast Cancer; Cryosurgery for Breast Fibroadenoma; Cryosurgery for Other Chest Tumors
- **Cryosurgery for Abdominal Tumors:** Cryosurgery for Hapatocellular Carcinoma; Cryosurgery for Metastatic Hepatic Carcinoma; Combination of Cryosurgery with Transarterial Embolization for Liver Cancer; Combination of Cryosurgery with Other Ablative Techniques for Liver Cancer; Cryosurgery for Focal Nodular Hyperplasia; Feasibility and Safety of Cryosurgery for Experimental Pancreatic Model; Cryosurgery for Locally Advanced Pancreatic Cancer; Cryosurgery for Renal Tumors; Cryosurgery for Cancer of Adrenal Gland; Cryosurgery for Pelvic Tumors
- **Cryosurgery for Malignant Tumors of Pelvis:** Cryosurgery for Cervical Intraepithelial Neoplasia; Cryosurgery for Uterine Tumor; Cryosurgery for Functional Uterine Bleeding; Cryosurgery for Prostate Cancer
- **Cryosurgery for Tumors of Head, Face and Neck:** Cryosurgery for Head and Neck Tumors; Cryosurgery for Thyroid Tumor; Cryosurgery for Brain Tumor
- **Cryosurgery for External Tumors and Lymphomas:** Cryosurgery for Non-Melanoma Skin Tumors; Cryosurgery for Melanoma; Cryosurgery for Advanced External Tumors; Cryosurgery for Lymphoma
- **Cryosurgery for Soft Tissue and Bone Tumors:** Cryosurgery for Soft Tissue Tumors; Cryosurgery for Bone Tumors.

Readership: Oncologists, surgeons, medical professionals interested in the technique of cryosurgery.

900pp

978-981-4329-65-1

978-981-4329-66-8(ebook)

Feb 2012

US\$198

US\$257

£131



Scan this code with your smartphone
to go to our book's webpage

30% Discount on Books till 15-Oct-2011 by indicating discount code **MCC2011**. Order your copy at www.worldscibooks.com

