Gastric Cancer
Contemporary Issues in Cancer Imaging
A Multidisciplinary Approach

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Breast Cancer
Gastric Cancer

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**Series Foreword**

Imaging has become pivotal in all aspects of the management of patients with cancer. At the same time it is acknowledged that optimal patient care is best achieved by a multidisciplinary team approach. The explosion of technological developments in imaging over the past years has meant that all members of the multidisciplinary team should understand the potential applications, limitations and advantages of all the evolving and exciting imaging techniques. Equally, to understand the significance of the imaging findings and to contribute actively to management decisions and to the development of new clinical applications for imaging, it is critical that the radiologist should have sufficient background knowledge of different tumors. Thus the radiologist should understand the pathology, the clinical background, the therapeutic options, and prognostic indicators of malignancy.

*Contemporary Issues in Cancer Imaging – A Multidisciplinary Approach* aims to meet the growing requirement for radiologists to have detailed knowledge of the individual tumors in which they are involved in making management decisions. A series of single subject issues, each of which will be dedicated to a single tumor site and edited by recognized expert guest editors, will include contributions from basic scientists, pathologists, surgeons, oncologists, radiologists, and others.

While the series is written predominantly for the radiologist, it is hoped that individual issues will contain sufficient varied information so as to be of interest to all medical disciplines and to other health professionals managing patients with cancer. As with imaging, advances have occurred in all these disciplines related to cancer management and it is our fervent hope that this series, bringing together expertise from such a range of related specialties, will not only promote the understanding and rational application of modern imaging but will also help to achieve the ultimate goal of improving outcomes of patients with cancer.

Rodney H. Reznek
Preface to Gastric Cancer

Gastric adenocarcinoma is the second most common cancer in the world. Nearly one million new cases of this tumor develop annually and well over 700,000 individuals die from this neoplasm each year. In Asia, gastric cancer accounts for 31% of all cancer incidence cases in men and for 22% in women. Because of aggressive screening programs, gastric cancer is often found at an earlier, potentially curable stage in Asia. In the West, this tumor is usually diagnosed in its later stages and the prognosis is grim. Indeed, even with modern diagnostic and treatment methods, only 10% of patients in the West are alive within five years of diagnosis.

Improvements in overall survival of patients with gastric cancer can only be achieved by earlier diagnosis and by tailored therapeutic strategies that are based on histologic tumor type, tumor location, tumor stage at the time of presentation, and the physiologic status of the patient. The purpose of this book is to provide a state of the art, integrated diagnostic and therapeutic approach to patients with this lethal neoplasm. The role of the upper gastrointestinal series, endoscopy, endoscopic ultrasound, multidetector computed tomography (CT), magnetic resonance imaging, and positron emission tomography//CT in the diagnosis, treatment, staging, and follow-up of patients with gastric cancer is emphasized. The relative strengths and weaknesses of these diagnostic examinations will be presented in context with the most recent epidemiologic, pathologic, and therapeutic concepts regarding this tumor.

Only by a well orchestrated team approach including epidemiologists, diagnostic radiologists, gastroenterologists, oncologic surgeons, radiation oncologists, and pathologists, coupled with a better understanding of the molecular genetics of gastric cancer, can we hope to successfully address this major global health problem.

Richard M. Gore, MD