Cancer of the Ovary

Ovarian cancer is not only the commonest but also the most lethal gynaecological malignancy, partly because the majority of patients present with advanced disease. Nevertheless, the management of patients with ovarian neoplasms has changed substantially recently, with improved survival due to better screening strategies, major advances in chemotherapy and the constantly evolving role of surgery.

Central to these advances has been the development and application of imaging in diagnosis, staging and follow-up. All forms of imaging play a critical role not only in the day-to-day management of the patient but also in the development of future strategies. This volume provides a detailed review of all relevant imaging modalities and treatment options, enhancing understanding of the role of imaging for all involved in patient care.

About the series

Each volume in *Contemporary Issues in Cancer Imaging — A Multidisciplinary Approach* is edited by an expert guest editor with contributions from all members of the multidisciplinary team, bringing together expertise from many specialities to promote the understanding and application of modern imaging in overall patient management.

Forthcoming titles in the series:

- Colorectal Cancer
- Lung Cancer
- Carcinoma of the Kidney
- Carcinoma of the Esophagus
- Carcinoma of the Bladder
## Contents

<table>
<thead>
<tr>
<th>Contributors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series Foreword</td>
<td>ix</td>
</tr>
<tr>
<td>Preface to Cancer of the Ovary</td>
<td>xi</td>
</tr>
</tbody>
</table>

1 Epidemiology of Ovarian Cancer 1
   Karim Elmasry and Simon Gayther

2 The Pathological Features of Ovarian Neoplasia 20
   David Lowe

3 Ovarian Cancer Screening 47
   Adam Rosenthal, Usha Menon and Ian Jacobs

4 Surgical Management of Patients with Epithelial Ovarian Cancer 69
   Janos Balega and John Shepherd

5 Medical Treatment of Ovarian Carcinoma 82
   Rebecca Bowen and Maurice Slevin

6 Ultrasound in Ovarian Carcinoma 94
   Judith Webb

7 MR Imaging in Ovarian Cancer 112
   Aslam Sohaib and Rodney Reznek

8 CT in Carcinoma of the Ovary 132
   John Spencer

9 PET and PET/CT in Ovarian Cancer 156
   Norbert Avril

Index 173
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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 tumours. 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 tumours in which they are involved in making management decisions. A series of single subject issues, each of which will be dedicated to a single tumour site, edited by recognised 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 Reznek
London
Janet Husband
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Preface to Cancer of the Ovary

Ovarian cancer is not only the commonest but also the most lethal gynaecological malignancy, partly because the majority of patients present with advanced disease. Nevertheless, as is true for so many cancers, the management of patients with ovarian neoplasms has changed substantially over the years. Several factors have contributed to this: for example, major advances in chemotherapy have resulted in improved survival; the role of surgery is constantly evolving and being refined. Many challenges are being addressed in order to lessen the devastating effects of advanced disease: screening strategies are being introduced and detection of early stage disease may offer an opportunity to reduce mortality. Also, a better understanding of the interactions between environmental and molecular biological events that cause or protect against ovarian cancer may lead to clear clinical benefits in prevention, early detection and treatment of the disease.

There is little doubt, however, that central to these advances has been the development and application of modern imaging, whether it be in diagnosis, staging or follow-up. All forms of imaging, including ultrasound, MRI and CT, play a critical role not only in the day-to-day management of the patient but also in the development of future strategies. Position emission tomography may also in future play a role.

This issue of Contemporary Issues in Cancer Imaging — A Multidisciplinary Approach deals with all these important developments. Increasingly, there is a need for the radiologist to understand the clinical issues that prompt the need for imaging. Equally, it is essential that clinicians understand the contribution that imaging can make to the care of the patient. I hope that, in keeping with the ethos of this series, bringing together the contributions of experts in each of these disciplines will promote a better understanding of the role of imaging for all involved in the management of patients with ovarian cancer.

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