

Molecular Imaging in Multiple Myeloma

Cristina Nanni • Stefano Fanti • Lucia Zanoni
Editors

Molecular Imaging in Multiple Myeloma

 Springer

Editors

Cristina Nanni
Department of Metropolitan
Nuclear Medicine
Policlinico S.Orsola-Malpighi
Bologna
Italy

Stefano Fanti
Department of Metropolitan
Nuclear Medicine
Policlinico S.Orsola-Malpighi
Bologna
Italy

Lucia Zanoni
Department of Metropolitan
Nuclear Medicine
Policlinico S.Orsola-Malpighi
Bologna
Italy

ISBN 978-3-030-19018-7 ISBN 978-3-030-19019-4 (eBook)
<https://doi.org/10.1007/978-3-030-19019-4>

© Springer Nature Switzerland AG 2019

This work is subject to copyright. All rights are reserved by the Publisher, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, reuse of illustrations, recitation, broadcasting, reproduction on microfilms or in any other physical way, and transmission or information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed.

The use of general descriptive names, registered names, trademarks, service marks, etc. in this publication does not imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

The publisher, the authors, and the editors are safe to assume that the advice and information in this book are believed to be true and accurate at the date of publication. Neither the publisher nor the authors or the editors give a warranty, expressed or implied, with respect to the material contained herein or for any errors or omissions that may have been made. The publisher remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

This Springer imprint is published by the registered company Springer Nature Switzerland AG.
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Contents

Multiple Myeloma: Clinical Aspects	1
Paola Tacchetti and Michele Cavo	
What Does a Clinician Need from New Imaging Procedures?	15
Elena Zamagni	
FDG PET in Multiple Myeloma	27
Bastien Jamet, Clément Bailly, Thomas Carlier, Anne-Victoire Michaud, Cyrille Touzeau, Philippe Moreau, Caroline Bodet-Milin, and Françoise Kraeber-Bodéré	
Role of Standard Magnetic Resonance Imaging	39
Eugenio Salizzoni, Alberto Conficoni, and Manuela Coe	
Whole Body Diffusion-Weighted Magnetic Resonance Imaging: A New Era for Whole Body Imaging in Myeloma?	73
Christina Messiou and Dow-Mu Koh	
CXCR4 Imaging in Multiple Myeloma	87
M. I. Morales, C. Lapa, and A. K. Buck	
PET/CT with Standard Non-FDG Tracers in Multiple Myeloma	93
Cristina Nanni	
The Issue of Interpretation	99
Cristina Nanni	
Clinical Teaching Cases: FDG PET/CT	105
Cristina Nanni, Lucia Zanoni, and Stefano Fanti	