

## THE CLINICAL APPLICATIONS OF SPET

# Developments in Nuclear Medicine

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VOLUME 25

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*Series Editor:* Peter H. Cox

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# The Clinical Applications of SPET

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## **FOREWORD**

Nuclear Medicine technology tends to follow a cyclic development whereby advances in instrumentation create possibilities which require more specific radiopharmaceuticals for their full exploitation and these in turn create new possibilities for the accurate measurement of biodistribution. The development of Positron Emission Tomography has provided much information which has been of value in stimulating the development of radiopharmaceuticals labelled with single photon emitters. The relatively high cost of PET facilities ensures that it will only be available on a limited scale and therefore the emphasis of Nuclear Medicine remains focused on single photon emitters.

The availability of rotating Gamma Cameras at an economical price has made Single Photon Emission Tomography to any Nuclear Medical Unit and whilst the detail of the scans is not as refined as from a PET Camera the quality is more than adequate to display the relevant biodistribution data in a form which can be correlated with morphological scans obtained with other modalities.

In this volume we have collected contributions from an international panel of experts in the field to provide a reference source on all aspects of SPET from instrumentation through radionuclides and pharmaceuticals to the clinical applications. It has been our endeavour to provide information relevant to everyday practice.

In order to get the full value of some SPET studies it is necessary to make use of colour presentations. The production of full colour figures in the text is expensive and therefore we would like to acknowledge financial support from Sopha Medical and Nuclear Diagnostics to enable the reproduction of the figures in chapters 7 and 8.

Finally we would acknowledge the contributions of Mrs T Busker and Mrs T Klijn for their Secretarial help and Mrs Nettie Dekker from Kluwer for her patience and professional guidance.

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Rotterdam  
June 1994

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