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Role of radiology in changing the landscape of managing multiple myeloma

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Imaging of multiple myeloma has been transformed in the past few years due to new research and developments. It is important to keep abreast of the new recommendations, for example smoldering multiple myeloma, the risk of progression to malignant disease in the first 5 years is about 10% per year and therefore a robust strategy for diagnosis, follow up and staging is essential. In particular, low dose whole-body CT (LDWBCT), whole-body diffusion weighted MRI and PET/CT are increasingly being used and likely to replace plain films skeletal surveys. This lecture will focus on morphologic and functional imaging techniques and the latest recommendations of the international myeloma working group (IMWG). Strategies for managing monoclonal gammopathy of unclear significance (MGUS) and smoldering multiple myeloma along with the role of interventional and palliative radiology techniques such as vertebroplasty or kyphoplasty, radio-frequency thermal ablation and targeted cryoablation therapy will be discussed. In addition, this presentation will also discuss Durie-Salmon PLUS staging system, the relative merits and limitations of different imaging modalities and practical challenges faced in the management of multiple myeloma.

Biography

Sanjay Gandhi is a Senior Attending Radiologist at one of the largest teaching hospitals and Regional Trauma Units in the UK. For the past 17 years, he has been teaching at the University of Bristol and University of West of England. As a Professor, he also teaches at Sri Devaraj Urs University, India. He has won multiple academic awards and has been involved in numerous research projects and collaborative trials. He has published widely on use of cutting-edge technology and co-authored and edited eight medical textbooks. He is an internationally recognized leader in Healthcare IT and development of Smart Apps.

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