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Professor Michael Barton OAM is Scientia Professor of Radiation Oncology and Head of Cancer Research for the Faculty of Medicine at UNSW. He is the Research Director of the Collaboration for Cancer Outcomes Research and Evaluation (CCORE) and the Ingham Institute for Applied Medical Research at Liverpool Hospital. Prof. Barton has worked for the IAEA on radiotherapy projects in Africa, Asia and Latin America. He chaired the WHO technical document on risk profiling radiotherapy. The benchmarks for radiotherapy service delivery that CCORE developed have now been adopted throughout Australia, Europe and Great Britain. He is part of the leadership of the team developing one of the world's first MRI-guided linear accelerators for cancer treatment. MRI guidance will revolutionise radiotherapy by identifying and targeting intra-tumoural heterogeneity.