

The Lancet Oncology

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The Lancet Oncology Commission on Radiotherapy and Theranostics has made considerable progress over the last 18 months, supported by many professional organisations including the World Federation of Nuclear Medicine and Biology.

A major survey of the use of theranostics, including radionuclide and radiopharmaceutical availability and use, workforce and issues impacting on new theranostics use, has been conducted. In addition, an expert panel hosted by IAEA developed guidelines for minimum training required for theranostics practice, aligned with this Lancet Oncology Commission. The results from this Commission will enable policy and actions to improve access and availability of Theranostics globally, and the main white paper is anticipated to be published in Lancet Oncology by the end of this year.

There have been publications from the initial work and survey performed by this Lancet Oncology Commission, as follows:

[S.E. Lapi*, P.J.H. Scott*, A.M. Scott*, A.D. Windhorst*, B.M. Zeglis*, M. Abdel-Wahab, R.P. Baum, J.D. Buatti, F. Giammarile, A.P. Kiess, A. Jalilian, P. Knoll, A. Korde, J. Kunikowska, S.T. Lee, D. Paez, J-L. Urbain, J. Zhang, J.S. Lewis. Recent Advances and Impending Challenges in the Radiopharmaceutical Sciences in Oncology. Lancet Oncology 25\(6\):e236-e249, 2024. PMID: 38821098 * joint first authors](#)

[A.M. Scott, B.M. Zeglis, S.E. Lapi, P.J.H. Scott, A.D. Windhorst, M. Abdel-Wahab, F. Giammarile, D. Paez, A. Jalilian, P. Knoll, A. Korde, S. Vichare, N. Ayati, S.T. Lee, S. Lyashchenko, J. Zhang, J-L. Urbain, J.S. Lewis. Trends in Nuclear Medicine and the Radiopharmaceutical Sciences in Oncology: Workforce Challenges and Training in the Age of Theranostics. Lancet Oncology 25\(6\):e250-e259, 2024. PMID: 38821099](#)

[F. Giammarile, D. Paez, R. Zimmermann, C. Cutler, A. Jalilian, A. Korde, P. Knoll, N. Ayati, J.S. Lewis, S.E. Lapi, R.C. Delgado Bolton, J. Kunikowska, W. Estrada-Lobato, J-L. Urbain, O. Homberg, M. Abdel-Wahab, A.M. Scott. Production and Regulatory Issues for Theranostics. Lancet Oncology 25\(6\):e260-e269, 2024. PMID: 38821100](#)

[F. Giammarile, P. Knoll, J. Kunikowska, D. Paez, E. Estrada Lobato, M. Mikhail, R. Wahl, O. Holmberg, M. Abdel-Wahab, A.M. Scott, R. C. Delgado Bolton. Guardians of precision: advancing radiation protection, safety, and quality](#)

[systems in nuclear medicine. Eur J Nucl Med Mol Imaging 51\(6\):1498-1505, 2024. PMID: 38319322](#)

[T.N.B. Pascual, D. Paez, A. Iagaru, G. Gnanasegaran, S.T. Lee, M. Sathekge, J.M. Buatti, F. Giammarile, A. Al-Ibraheem, M.A. Pardo, R.P. Baum, B. De Bari, S. Ben-Haim, J.Y. Blay, A. Brink, E. Estrada-Lobato, S. Fanti, A.T. Golubic, J. Hatazawa, O. Israel, A. Kiess, P. Knoll, L. Louw, G. Mariani, S. Mirzaei, P. Orellana, J.O. Prior, J.L. Urbain, S. Vichare, S. Vinjamuri, I. Virgolini, A.M. Scott. Guiding Principles on the Education and Practice of Theranostics. Eur J Nucl Med Mol Imaging 51\(8\):2320-2331, 2024. PMID: 38453729](#)