

Journal Club, May - July 2025

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La Radiologia Medica - May 2025

Corrao G, Marvaso G, Zaffaroni M, Vincini MG, Badellino S, Borghetti P, Cuccia F, Federico M, Montesi G, Pontoriero A, Franzese C, Loi M, Jereczek-Fossa BA, Scorsetti M. Stereotactic body radiotherapy combined with immunotherapy or targeted therapy: a screenshot from Italy on behalf of the Italian Association of Clinical Oncology and Radiotherapy (AIRO). Radiol Med. 2025 May;130(5):674-682. doi: 10.1007/s11547-025-01977-1. Epub 2025 Mar 12. PMID: 40072805.

The present survey, conducted within the AIRO Oligometastatic Study Group, investigates the current clinical practice in Italy regarding the combination of hypofractionated SBRT (defined as a dose/fraction ≥ 5 Gy) with immunotherapy (IO) and targeted therapy (TT) in cancer treatment. Sixty-eight AIRO members from different Italian regions completed the proposed survey. Significant variability in clinical practice across Italy emerged. The 26% and the 37% of participants answered that TT and IO, respectively, should be stopped during RT. Regarding which drug types would be of concern when patients are referred for SBRT, the majority of the answers regarded ALK inhibitors (21%), BRAF inhibitors (25%), EGFR inhibitors (26%), immune checkpoint inhibitors (25%) and PARP inhibitors (25%). Prospective clinical studies are encouraged to evaluate the safety and efficacy of combining SBRT with IO/TT.

Radiotherapy and Oncology - June 2025

Evans M, Bonomo P, Chan PC, Chua MLK, Eriksen JG, Hunter K, Jones TM, Laskar SG, Maroldi R, O'Sullivan B, Paterson C, Tagliaferri L, Tribius S, Yom SS, Gregoire V. Post-operative radiotherapy for oral cavity squamous cell carcinoma: Review of the data guiding the selection and the delineation of post-operative target volumes. *Radiother Oncol.* 2025 Jun;207:110880. doi: 10.1016/j.radonc.2025.110880. Epub 2025 Apr 5. PMID: 40194704.

With the aim to improve delineation of primary and nodal Clinical Target Volumes (CTVs) in patients who require post-operative radiotherapy (PORT) for Oral cavity squamous cell carcinoma (OCSCC) and reduce heterogeneity in radiotherapy treatment, a multi-disciplinary group of experts was convened by the European Society for Radiotherapy and Oncology (ESTRO) - including radiation oncologists from Europe, North America and Asia. This paper - basing on evidence and expert opinion - reports clear recommendations regarding the indications for PORT in OCSCC, and proposes a new classification of lateralised and non-lateralised OCSCC, to help guide the delineation of post-operative nodal CTVs. A strict multidisciplinary collaboration is necessary. All these knowledge should be incorporated in new international consensus guidelines for CTV delineation in the post-operative setting.

International Journal of Radiation Oncology - Biology - Physics - July 2025

Chetty IJ, Cai B, Chuong MD, Dawes SL, Hall WA, Helms AR, Kirby S, Laugeman E, Mierzwa M, Pursley J, Ray X, Subashi E, Henke LE. Quality and Safety Considerations for Adaptive Radiation Therapy: An ASTRO White Paper. *Int J Radiat Oncol Biol Phys.* 2025 Jul 15;122(4):838-864. doi: 10.1016/j.ijrobp.2024.10.011. Epub 2024 Oct 16. PMID: 39424080.

“[...] The American Society for Radiation Oncology convened an interdisciplinary task force to provide expert consensus on key workflows and processes for Adaptive radiation therapy (ART). Recommendations were created using a consensus-building methodology, and task force members indicated their level of agreement based on a 5-point Likert scale, from "strongly agree" to "strongly disagree." A prespecified threshold of $\geq 75\%$ of raters selecting "strongly agree" or "agree" indicated consensus. [...] Establishing and maintaining an adaptive program requires a team-based approach, appropriately trained and credentialed specialists, significant resources, specialized technology, and implementation time. A comprehensive quality assurance program must be developed, using established guidance, to make sure all forms of ART are performed in a safe and effective manner”