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PERSONAL INFORMATIONS



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PUBLICATIONS

Riva G, Cavallo I, Gandini S, Ingargiola R, Pecorilla M, Imparato S, Rossi E, Mirandola A, Ciocca M, Orlandi E, Iannalfi A. Particle Radiotherapy for Skull Base Chondrosarcoma: A Clinical Series from Italian National Center for Oncological Hadrontherapy. *Cancers (Basel)*. 2021 Sep 2;13(17):4423. doi: 10.3390/cancers13174423.

Riva G, Imparato S, Savietto G, Pecorilla M, Iannalfi A, Barcellini A, Ronchi S, Fiore MR, Paganelli C, Buizza G, Ciocca M, Baroni G, Preda L, Orlandi E Potential role of functional imaging in predicting outcome for patients treated with carbon ion therapy: a review.. *Br J Radiol*. 2021 Sep 14:20210524. doi: 10.1259/bjr.20210524

Riva G, Alessandro O, Spoto R, Ferrari A, Garibaldi C, Cattani F, Luraschi R, Rondi E, Colombo N, Giovenzana FLF, Cipolla CM, Winnicki M, Persiani M, Castelluccia F, Fiore MS, Orecchia R, Jerezek-Fossa BA. Radiotherapy in patients with cardiac implantable electronic devices: clinical and dosimetric aspects. *Med Oncol*. 2018 Apr 17;35(5):73. doi: 10.1007/s12032-018-1126-3.

Riva G, Augugliaro M, Piperno G, Ferrari A, Rondi E, Vigorito S, Ciardo D, Orecchia R, Jerezek-Fossa BA. CyberKnife radiotherapy for orbital metastases: A single-center experience on 24 lesions. *Eur J Ophthalmol*. 2018 Mar 1:1120672118761728. doi: 10.1177/1120672118761728.

Riva G, Marvaso G, Augugliaro M, Zerini D, Fodor C, Musi G, De Cobelli O, Orecchia R, Jerezek-Fossa BA. Cytoreductive prostate radiotherapy in oligometastatic prostate

cancer: a single centre analysis of toxicity and clinical outcome. *Ecancermedalscience*. 2017 Nov 30;11:786. doi: 10.3332/ecancer.2017.786.

Morelli L, Palombo M, Buizza G, **Riva G**, Pella A, Fontana G, Imparato S, Iannalfi A, Orlandi E, Paganelli C, Baroni G. Microstructural parameters from DW-MRI for tumour characterization and local recurrence prediction in particle therapy of skull-base chordoma. *Med Phys*. 2023 Jan 5. doi: 10.1002/mp.16202.

Barcellini A, Dusi V, Mirandola A, Ronchi S, **Riva G**, Dal Mas F, Massaro M, Vitolo V, Ciocca M, Rordorf R, Orlandi E. The impact of particle radiotherapy on the functioning of cardiac implantable electronic devices: a systematic review of in vitro and in vivo studies according to PICO criteria. *Radiol Med*. 2022 Sep;127(9):1046-1058. doi: 10.1007/s11547-022-01520-6

Buizza G, Zampini MA, **Riva G**, Molinelli S, Fontana G, Imparato S, Ciocca M, Iannalfi A, Orlandi E, Baroni G, Paganelli C. Investigating DWI changes in white matter of meningioma patients treated with proton therapy. *Phys Med*. 2021 Apr;84:72-79. doi: 10.1016/j.ejmp.2021.03.027.

Morelli L, Buizza G, Palombo M, Riva G, Fontana G, Imparato S, Iannalfi A, Orlandi E, Paganelli C, Baroni G. Analysis of tumour microstructure estimation from conventional diffusion MRI and application to skull-base chordoma. *Annu Int Conf IEEE Eng Med Biol Soc*. 2021 Nov;2021:3761-3764. doi: 10.1109/EMBC46164.2021.9630129.

Franconeri A, Sacco S, Raciti MV, Maggi A, Muzic SI, Imparato S, Farina L, Bacila A, Paganelli C, Buizza G, Fontana G, Baroni G, **Riva G**, Iannalfi A, Orlandi E, Preda L. *Neuroradiology*. 2021 Jul;63(7):1053-1060. Intravoxel incoherent motion as a tool to detect early microstructural changes in meningiomas treated with proton therapy. doi: 10.1007/s00234-020-02630-6

Buizza G, Paganelli C, D'Ippolito E, Fontana G, Molinelli S, Preda L, **Riva G**, Iannalfi A, Valvo F, Orlandi E, Baroni G. Radiomics and Dosiomics for Predicting Local Control after Carbon-Ion Radiotherapy in Skull-Base Chordoma. *Cancers (Basel)*. 2021 Jan 18;13(2):339

Barcellini A, Vitolo V, Cobianchi L, Valvo F, Vischioni B, Bonora M, Fiore MR, Iannalfi A, **Riva G**, Ronchi S, Tornari E, Orlandi E. Pancreatic cancer: Does a short course of carbon ion radiotherapy worth during COVID-19 outbreak? *Pancreatol*. 2020 Jul;20(5):1004-1005.

Gugliandolo SG, Pepa M, Isaksson LJ, Marvaso G, Raimondi S, Botta F, Gandini S, Ciardo D1, Volpe S, **Riva G**, Rojas DP, Zerini D, Pricolo P, Alessi S, Petralia G, Summers P, Mistretta AF, Luzzago F, Cattani F, De Cobelli O, Cassano E, Cremonesi M, Bellomi M, Orecchia R, Jereczek-Fossa BA. MRI-based radiomics signature for localized prostate cancer: a new clinical tool for cancer aggressiveness prediction? Sub-study of prospective phase II trial on ultra-hypofractionated radiotherapy (AIRC IG-13218) *Eur Radiol*. 2021 Feb;31(2):716-728. doi: 10.1007/s00330-020-07105-z

Marvaso, G., Gugliandolo, S. G., Bellerba, F., Gandini, S., Corrao, G., Volpe, S., Rojas, D. P., **Riva, G.**, Zerini, D., Pepa, M., Fodor, C. I., La Rocca, E., Pricolo, P., Alessi, S., Petralia, G., Mistretta, F. A., Cambria, R., Cattani, F., De Cobelli, O., ... Jereczek-Fossa, B. A. (2020). Phase II prospective trial “Give Me Five” short-term high precision radiotherapy for early prostate cancer with simultaneous boost to the dominant intraprostatic lesion: the impact of toxicity on quality of life (AIRC IG-13218). *Med Oncol.* 2020 Jul 28;37(8):74. doi: 10.1007/s12032-020-01397-3.

Romanò C, De Marco P, Trivellato S, Ciardo D, Comi S, Marvaso G, **Riva G**, Jereczek-Fossa BA, Roberto Orecchia R, Cattani F. Influence of different urinary bladder filling levels and controlling regions of interest selection on deformable image registration algorithms. *Phys Med .* 2020 May 27;75:19-25.

Vavassori, A., **Riva, G.**, Cavallo, I., Spoto, R., Dicuonzo, S., Fodor, C., Comi, S., Cambria, R., Cattani, F., Morra, A., Leonardi, M. C., Lazzari, R., Intra, M., Luini, A., Galimberti, V. E., Veronesi, P., Orecchia, R., & Jereczek-Fossa, B. A. (2020). High-dose-rate brachytherapy as adjuvant local reirradiation for salvage treatment of recurrent breast cancer (balestra): A retrospective mono-institutional study. *Journal of Contemporary Brachytherapy*, 12(3), 207-215 <https://doi.org/10.5114/jcb.2020.96860>

Iannalfi A, D'Ippolito E, **Riva G**, Molinelli S, Gandini S, Viselner G, Fiore MR, Vischioni B, Vitolo V, Bonora M, Ronchi S, Petrucci R, Barcellini A, Mirandola A, Russo S, Vai A, Mastella E, Magro G, Maestri D, Ciocca M, Preda L, Valvo F, Orecchia R. Proton and carbon ions radiotherapy in skull base chordomas: a prospective study based on a dual particle and a patient-customized treatment strategy. *Neuro Oncol.* 2020 Mar. doi: 10.1093/neuonc/noaa067

Lazzari R, **Riva G**, Augugliaro M Vavassori A, Dicuonzo S, Cattani F, Comi S, Colombo N, Jereczek-Fossa BA. Intensity modulated radiation therapy boost in locally-advanced cervical cancer in the absence of brachytherapy *International Journal of Gynecologic Cancer* Published Online First: 17 March 2020. doi: 10.1136/ijgc-2019-000735 *Int J Gynecol Cancer.*

Vavassori A, **Riva G**, Spoto S, Lazzari R, Fodor C, Dicuonzo S, Francia CM, Augugliaro M, Facondo G, Cambria R, Comi S, Cattani F, Botta F, Bagnardi V, Rizzo S, Colombo N, Orecchia R, Jereczek-Fossa BA. High precision radiotherapy including IMRT and pulsed-dose-rate brachytherapy for cervical cancer: a retrospective monoinstitutional study. *J Contemp Brachytherapy* 2019; 11, 6: 516–526. doi.org/10.5114/jcb.2019.90478

Vavassori A, **Riva G**, Durante S, Fodor C, Comi S, Cambria R, Cattani F, Spadola G, Orecchia R, Jereczek-Fossa BA. Mould-based surface high-dose-rate brachytherapy for eyelid carcinoma. *J Contemp Brachytherapy* 2019; 11, 5: 443–448 doi.org/10.5114/jcb.2019.88619.

Alterio D, Preda L, Volpe S, Giannitto C, **Riva G**, Pounou FAK, Atac M, Giuliano G, Ferrari A, Marvaso G, Cossu Rocca M, Ansarin M, Bellomi M, Jereczek-Fossa BA, Orecchia R. Impact of radiologic imaging revision in the multidisciplinary management of head and neck cancer: a monoinstitutional experience on 540 cases. In press: *Acta Otorhinolaryngologica Italica.*

Marvaso G, Ciardo D, Gandini S, **Riva G**, Frigo E, Volpe S, Fodor C, Zerini D, Rojas DP, Comi S, Cambria R, Cattani F, Musi G, De Cobelli O, Orecchia R, Jereczek-Fossa BA. Comparison of Outcomes and Toxicity Between Extreme and Moderate Radiation Therapy Hypofractionation in Localized Prostate Cancer: A Propensity Score Analysis. *Int J Radiat Oncol Biol Phys*. 2019 Aug 1. pii: S0360-3016(19)33531-X. doi: 10.1016/j.ijrobp.2019.07.027.

Augugliaro M, Marvaso G, Zerini D, **Riva G**, Rondi E, Vigorito S, Comi S, De Cobelli O, Orecchia R, Jereczek-Fossa BA. Recurrent oligometastatic transitional cell bladder carcinoma: is there room for radiotherapy? *Neoplasma*. 2019 Jan 15;66(1):160-165. doi: 10.4149/neo_2018_180522N333.

Jereczek-Fossa BA, Maucieri A, Gandini S, Fodor C, Zerini D, **Riva G**, Alessandro O, Surgo A, Volpe S, Fanetti G, Arculeo S, Zerella MA, Parisi S, Maisonneuve P, Vavassori A, Cattani F, Cambria R, Garibaldi C, Musi G, De Cobelli O, Ferro M, Nolè F, Ciardo D, Orecchia R. Impact of image-guidance on toxicity and tumor outcome in moderately hypofractionated external-beam radiotherapy for prostate cancer. *Med Oncol*. 2018 Nov 27;36(1):9. doi: 10.1007/s12032-018-1233-1.

Jereczek-Fossa BA, Surgo A, Maisonneuve P, Maucieri A, Gerardi MA, Zerini D, Marvaso G, Ciardo D, Volpe S, Rojas DP, **Riva G**, Alessandro O, Dicuonzo S, Fanetti G, Romanelli P, Starzyńska A, Cattani F, Cambria R, Fodor C, Garibaldi C, Romanò C, De Cobelli O, Orecchia R. Late toxicity of image-guided hypofractionated radiotherapy for prostate: non-randomized comparison with conventional fractionation. *Radiol Med*. 2018 Sep 15. doi: 10.1007/s11547-018-0937-9.

Mambretti M, Romanò C, Marvaso G, Comi S, Cambria R, Ciardo D, Emiro F, Fodor C, Zerini D, **Riva G**, Petralia G, De Cobelli O, Orecchia R, Cattani F, Jereczek-Fossa BA. A global Unified Dosimetry Index (gUDI) to evaluate simultaneous integrated boost radiotherapy plans in prostate cancer. *Radiother Oncol*. 2018 Aug;128(2):315-320. doi: 10.1016/j.radonc.2018.06.002. Epub 2018 Jun 23.

Timon G, Ciardo D, Bazani A, Marvaso G, **Riva G**, Volpe S, Rojas DP, Renne G, Petralia G, Zerini D, Fodor C, Dicuonzo S, Maestri D, Pansini F, Cambria R, Cattani F, Golino F, Scroffi V, De Lorenzo D, De Cobelli O, Orecchia R, Jereczek-Fossa BA. Short-term high precision radiotherapy for early prostate cancer with concomitant boost to the dominant lesion: ad interim analysis and preliminary results of Phase II trial AIRC-IG-13218. *Br J Radiol*. 2018 Sep;91(1089):20160725. doi: 10.1259/bjr.20160725. Epub 2018 May 23.

Marvaso G, **Riva G**, Ciardo D, Gandini S, Fodor C, Zerini D, Colangione SP, Timon G, Comi S, Cambria R, Cattani F, De Cobelli O, Orecchia R, Jereczek-Fossa BA. "Give me five" ultra-hypofractionated radiotherapy for localized prostate cancer: non-invasive ablative approach. *Med Oncol*. 2018 May 10;35(6):96. doi: 10.1007/s12032-018-1155-y.

Riva G, Alessandro O, Spoto R, Ferrari A, Garibaldi C, Cattani F, Luraschi R, Rondi E, Colombo N, Giovenzana FLF, Cipolla CM, Winnicki M, Persiani M, Castelluccia F, Fiore MS, Orecchia R, Jereczek-Fossa BA. Radiotherapy in patients with cardiac implantable electronic devices: clinical and dosimetric aspects. *Med Oncol*. 2018 Apr 17;35(5):73. doi: 10.1007/s12032-018-1126-3.

Riva G, Augugliaro M, Piperno G, Ferrari A, Rondi E, Vigorito S, Ciardo D, Orecchia R, Jereczek-Fossa BA. CyberKnife radiotherapy for orbital metastases: A single-center experience on 24 lesions. *Eur J Ophthalmol*. 2018 Mar 1;1120672118761728. doi: 10.1177/1120672118761728.

Garibaldi C, Fodor C, **Riva G**, Rojas DP, Dicuonzo S, Pace E, Fanetti G, De Marco P, Dell'acqua V, Marvaso G, Leonardi MC, Lazzari R, Cattani F, Cremonesi M, Orecchia R, Jereczek-Fossa BA. Cone-beam CT-based inter-fraction localization errors for tumors in the pelvic region. *Phys Med*. 2018 Feb;46:59-66. doi: 10.1016/j.ejmp.2018.01.011.

Riva G, Marvaso G, Augugliaro M, Zerini D, Fodor C, Musi G, De Cobelli O, Orecchia R, Jereczek-Fossa BA. Cytoreductive prostate radiotherapy in oligometastatic prostate cancer: a single centre analysis of toxicity and clinical outcome. *Ecancermedalscience*. 2017 Nov 30;11:786. doi: 10.3332/ecancer.2017.786.

Marvaso G, Jereczek-Fossa BA, **Riva G**, Bassi C, Fodor C, Ciardo D, Cambria R, Pansini F, Zerini D, De Marco P, Cattani F, De Cobelli O, Orecchia R. High-Risk Prostate Cancer and Radiotherapy: The Past and the Future. A Benchmark for a New Mixed Beam Radiotherapy Approach. *Clin Genitourin Cancer*. 2017 Jun;15(3):376-383. doi: 10.1016/j.clgc.2017.01.007. Epub 2017 Jan 18.

Poggi G, Montagna B, Di Cesare P, **Riva G** et al. Microwave ablation of hepatocellular carcinoma using a new percutaneous device: preliminary results. *Anticancer Res*. 2013 Mar;33(3):1221-7

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Contribution in drawing the manuscript

Zecchin M, Severgnini M, Fiorentino A, Malvasi VL, Menegotti L, Alongi F, Catanzariti D, Jereczek-Fossa BA, Stasi M, Russi E, Boriani G. Management of patients with cardiac implantable electronic devices (CIED) undergoing radiotherapy: A consensus document from Associazione Italiana Aritmologia e Cardioritmo (AIAC), Associazione Italiana Radioterapia Oncologica (AIRO), Associazione Italiana Fisica Medica (AIFM). *Int J Cardiol*. 2018 Mar 15;255:175-183. doi: 10.1016/j.ijcard.2017.12.061. Epub 2017 Dec 24.