

List of publications of the Data Science Unit

2023- 2025

- 1 - Aguado Barrera Me, Lopez Pleguezuelos C, Gómez Caamaño A, Calvo Crespo P, Taboada Valladares B, Azria D, Boisselier P, Briers E, Chan C, Chang Claude J, Coedo Costa C, Crujeiras González A, Cuaron Jj, Defraene G, Elliott Rm, Faivre Finn C, Franceschini M, Fuentes Rios O, Galego Carro J, Gutiérrez Enríquez S, Heumann P, Higginson Ds, Johnson K, Lambrecht M, Lang P, Lievens Y, Mollà M, Ramos M, Rancati T, Rattay T, Rimner A, Rosenstein Bs, Sangalli C, Seibold P, Sperk E, Stobart H, Symonds P, Talbot Cj, Vandecasteele K, Veldeman L, Ward T, Webb A, Woolf D, De Ruyscher D, West Cml, Vega A, Requite Consortium. Professional-patient discrepancies in assessing lung cancer radiotherapy symptoms: An international multicentre study. *Lung Cancer* 2025;199:108072
- 2 - Tudda A, Castriconi R, Placidi L, Benecchi G, Buono Rc, Cagni E, Cicchetti A, Landoni V, Malatesta T, Mazzilli A, Meffe G, Moretti E, Mori M, Oliviero C, Guidasci Gr, Scaggion A, Trojani V, Vecchio Ad, Fiorino C. Multi-institutional Knowledge-Based (KB) plan prediction benchmark models for whole breast irradiation. *Physica Medica-european Journal Of Medical Physics* 2025;130:104889
- 3 - Ciniselli Cm, Verderio P, Duroni V, Baili P, Pizzamiglio S, De Braud Fg, Folli S, Depretto C, Scaperrotta G, De Santis Mc, Carnevale Mg, De Marco C, Vingiani A, Pruneri G, Di Cosimo S. Reliability of core needle biopsy for HER2-low early-stage breast cancer. *Clinical & Translational Oncology* 2025;
- 4 - Bouzaki A, Green D, Van Herk M, Shortall J, Puri T, Kerns S, Azria D, Farcy Jacquet Mp, Chang Claude J, Choudhury A, Dunning A, Lambrecht M, Avuzzi B, Ruyscher D, Seibold P, Sperk E, Talbot C, Vega A, Veldeman L, Webb A, Rosenstein B, West Cm, Gioscio E, Rancati T, Osorio Ev, Mcwilliam A. New rectum dose surface mapping methodology to identify rectal subregions associated with toxicities following prostate cancer radiotherapy. *Physics And Imaging In Radiation Oncology* 2025;33:100701
- 5 - Danusso R, Iamoni G, Moles A, Casagrande G, Possenti L, Cetin I, Lattuada D. Methylcellulose enhances resolution in gravitational field-flow fractionation: Going beyond viscosity. *Journal Of Chromatography A* 2025;1741:465614
- 6 - Sghedoni R, Origgi D, Cucurachi N, Minischetti Gc, Alio D, Savini G, Botta F, Marzi S, Aiello M, Rancati T, Cusumano D, Politi Ls, Didonna V, Massafra R, Petrillo A, Esposito A, Imparato S, Anemoni L, Bortolotto C, Preda L, Boldrini L. Stability of radiomic features in magnetic resonance imaging of the female pelvis: A multicentre phantom study. *Physica Medica-european Journal Of Medical Physics* 2025;130:104895
- 7 - Vener C, Lillini R, De Angelis R, Bonfarnuzzo S, Poirel Ha, Trama A, Visser O, Troussard X, Marcos Gragera R, Maynadié M, Demuru E, Di Benedetto C, Johannesen Tb, Solans M, Paapsi K, Guevara M, Mousavi Sm, Blum M, Von Moos R, Bennett D, Ragusa R, Guilloteau A, Mcshane Cm, Rossi S, Sant M, Eurocare 6 Working Group (appendix Pp 34 35) {gatta G, Sant M, Baili P, Berrino F, Botta L, Trama A, Lillini R, Bernasconi A, Bonfarnuzzo S, Vener C, DidonÈ F, Lasalvia P, Buratti L, Tagliabue G}. Long-term survival for myeloid neoplasms and national health expenditure: A EUROcare-6 retrospective, population-based study. *European Journal Of Cancer* 2025;220:115231
- 8 - Materne S, Possenti L, Pisani F, Vitullo P, Catalano A, Iacovelli Na, Franceschini M, Cavallo A, Cicchetti A, Zunino P, Rancati T. Patient-specific microvascular computational modeling for estimating radiotherapy outcomes. *Computers In Biology And Medicine* 2025;190:110014
- 9 - Vincenzi Mm, Cicchetti A, Castriconi R, Mangili P, Ubeira Gabellini Mg, Chiara A, Deantoni C, Mori M, Pasetti M, Palazzo G, Tummineri R, Rancati T, Di Muzio Ng, Vecchio Ad, Fodor A, Fiorino C. Training and temporally validating an NTCP model of acute toxicity after whole

breast radiotherapy, including the impact of advanced delivery techniques. *Radiotherapy And Oncology* 2025;204:110700

- 10 - Ciniselli Cm, Verderio P, Baili P, Sant M, Pizzamiglio S, Duroni V, De Braud Fg, Folli S, Scaperrotta G, De Santis Mc, Apolone G, De Marco C, Vingiani A, Cappelletti V, Pruneri G, Di Cosimo S. Clinical and Biological Significance of HER2-Low in Ductal Carcinoma In Situ of the Breast. *Clinical Breast Cancer* 2025;25:e79-e85
- 11 - Colciago Rr, La Rocca E, Giandini C, Carnevale Mg, Bianchi Gv, Maugeri I, Depretto C, Meroni S, Cavallo A, Pignoli E, Lozza L, Rancati T, De Santis Mc. Fat necrosis after accelerated partial breast irradiation or hypofractionated whole breast irradiation: A case-control study. *Tumori Journal* 2024;110:451-461
- 12 - Casanova G, Lillini R, Lamura G. Characteristics of Italian, German and Spanish Socio-Economic, Public Health and Long-Term Care Systems Associated with COVID-19 Incidence and Mortality in the First Pandemic Year: Lessons for Future Sustainability in an International Perspective. *Healthcare* 2024;12:
- 13 - Bernasconi A, Zanga A, Lucas Pjf, Scutari M, Di Cosimo S, De Santis Mc, La Rocca E, Baili P, Cavallo I, Verderio P, Ciniselli Cm, Pizzamiglio S, Blanda A, Perego P, Vallerio P, Stella F, Trama A, The Ada Working Group. From Real-World Data to Causally Interpretable Models: A Bayesian Network to Predict Cardiovascular Diseases in Adolescents and Young Adults with Breast Cancer. *Cancers* 2024;16:3643
- 14 - Possenti L, Gallo A, Vitullo P, Cicchetti A, Rancati T, Costantino Ml, Zunino P. A Computational Model of the Tumor Microenvironment Applied to Fractionated Radiotherapy. Eds: Linninger A, Mardal KA, Zunino P: *Quantitative Approaches To Microcirculation*. 2024;36:23-47
- 15 - Frezza Am, Leonard H, Aggerholm Pedersen N, Badalamenti G, Baili P, Baldi Gg, Bauer S, Bazzurri S, Benzonelli I, Bertuzzi A, Blay Jy, Bianchi G, Bonfarnuzzo S, Bouvier C, Boye K, Martin Broto J, Brunello A, Campanacci D, Casali Pg, Cicala C, Crotti E, D'ambrosio L, Dei Tos Ap, Dieckmann N, Dufresne A, Elston S, Ferraresi V, Gabellini S, Giani C, Giannusa V, Gil Sanjines M, Grassani T, Gronchi A, Lasalvia P, Lindskog S, Hindi N, Ingrosso M, Ivanescu A, Jones R, Lugowska I, Ketzer J, Mariuk Jarema A, Mazzocca A, Monteleone L, Morosi C, Napolitano A, Nardoza F, Neri E, Nilsson M, Papakonstantinou A, Pasquali S, Sbaraglia M, Scolari F, Szkandera J, Valverde C, Vincenzi B, Vizzaccaro S, Zuccheri F, Stacchiotti S, Trama A. The observational EURACAN prospective clinical registry dedicated to epithelioid hemangioendothelioma: The protocol of an international and collaborative effort on an ultra-rare entity. *Plos One* 2024;19:e0308387
- 16 - Iacovacci J, Serafini Ms, Avuzzi B, Badenchini F, Cicchetti A, Devecchi A, Dispinzieri M, Doldi V, Giandini T, Gioscio E, Mancinelli E, Noris Chiorda B, Orlandi E, Palorini F, Possenti L, Reis Ferreira M, Villa S, Zaffaroni N, De Cecco L, Valdagni R, Rancati T. Intestinal microbiota composition is predictive of radiotherapy-induced acute gastrointestinal toxicity in prostate cancer patients. *Ebiomedicine* 2024;106:105246
- 17 - Offeddu Gs, Cambria E, Shelton Se, Haase K, Wan Z, Possenti L, Nguyen Ht, Gillrie Mr, Hickman D, Knutson Cg, Kamm Rd. Personalized Vascularized Models of Breast Cancer Desmoplasia Reveal Biomechanical Determinants of Drug Delivery to the Tumor. *Advanced Science* 2024;11:e2402757
- 18 - Popotte C, Berthel É, Letellier R, Rancati T, Orlandi E, Munier M, Retif P, Pereira S. Impact of kV-cone beam computed tomography dose on DNA repair mechanisms: A pilot study. *Cancer Radiotherapie* 2024;28:449-452
- 19 - Jaikuna T, Wilson F, Azria D, Chang Claude J, De Santis Mc, Gutiérrez Enríquez S, Van Herk M, Hoskin P, Kotzki L, Lambrecht M, Lingard Z, Seibold P, Seoane A, Sperk E, Paul Symonds R, Talbot Cj, Rancati T, Rattay T, Reyes V, Rosenstein Bs, De Ruysscher D, Vega A, Veldeman L, Webb A, West Cm, Aznar Mc, Vasquez Osorio E. Optimising inter-patient image registration

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- 20 - Chander A, Iacovacci J, Pellon A, Kataria R, Grigoriadis A, Maher J, Sears C, Bachrach G, Urbano Tg, Lei M, Petkar I, Kong A, Ng T, Orlandi E, Iacovelli Na, De Cecco L, Serafini Ms, Moyes D, Rancati T, Ferreira Mr. Fusobacterium is toxic for head and neck squamous cell carcinoma and its presence may determine a better prognosis. *Cancer Communications* 2024;44:879-883
- 21 - Mercadé Besora N, Guo Y, Du M, Li X, Ramírez Anguita Jm, Moreno A, Valente A, Villalobos F, Cheng Il, Carrasco Ribelles La, Van Swieten Mmh, Merkelbach M, Magoya M, Lasalvia P, Pericàs Pulido P, Berg P, Bosco Lévy P, Lillini R, Ribeiro R, Bagga Tk, Ramella V, Khalid S, Mayer Ma, Leis A, Jödicke Am, Burn E, Prieto Alhambra D, Català M, Prats Uribe A. Incident Use of Hydroxychloroquine for the Treatment of Rheumatoid Arthritis and Systemic Lupus Erythematosus During the COVID-19 Pandemic. *Arthritis Care & Research* 2024;76:1173-1178
- 22 - Vens C, Van Luijk P, Vogelius Ri, El Naqa I, Humbert Vidan L, Von Neubeck C, Gomez Roman N, Bahn E, Brualla L, Böhlen Tt, Ecker S, Koch R, Handeland A, Pereira S, Possenti L, Rancati T, Todor D, Vanderstraeten B, Van Heerden M, Ullrich W, Jackson M, Alber M, Marignol L, On Behalf Ofthe Estro Dream Team. A joint physics and radiobiology DREAM team vision – Towards better response prediction models to advance radiotherapy. *Radiotherapy And Oncology* 2024;196:110277
- 23 - Sant M, Vener C, Lillini R, Rossi S, Bonfarnuzzo S, Marcos Gragera R, Maynadié M, Innos K, Paapsi K, Visser O, Bernasconi A, Demuru E, Di Benedetto C, Mousavi Sm, Blum M, Went P, Serraino D, Bennett D, Sánchez Mj, De Angelis R, Eurocare 6 Working Group {gatta G, Baili P, Berrino F, Botta L, Trama A, DidonÉ F, Lasalvia P, Buratti L, Tagliabue G, Capocaccia R}. Long-term survival for lymphoid neoplasms and national health expenditure (EUROCARE-6): a retrospective, population-based study. *Lancet Oncology* 2024;25:731-743
- 24 - Lo Ac, Ronckers C, Aznar Mc, Avanzo M, Van Dijk I, Kremer Lcm, Gagliardi G, Howell Rm, Rancati T, Constine Ls, Marcus Kj. Breast Hypoplasia and Decreased Lactation From Radiation Therapy in Survivors of Pediatric Malignancy: A PENTEC Comprehensive Review. *International Journal Of Radiation Oncology Biology Physics* 2024;119:549-559
- 25 - Bouvier Am, Jooste V, Lillini R, Marcos Gragera R, Katalinic A, Giorgi Rossi P, Launoy G, Bouvier V, Guevara M, Ardanaz E, Rapiti Aylward E, Innos K, Barranco Mr, Sant M, European High Resolution Working Group On Colorectum {baili P, Bonfarnuzzo S, Moretti G, Contiero P, Tagliabue G}. Differences in survival and recurrence of colorectal cancer by stage across population-based European registries. *International Journal Of Cancer* 2024;155:807-815
- 26 - De Angelis R, Demuru E, Baili P, Troussard X, Katalinic A, Chirlaque Lopez Md, Innos K, Santaquilani M, Blum M, Ventura L, Paapsi K, Galasso R, Guevara M, Randi G, Bettio M, Botta L, Guzzinati S, Dal Maso L, Rossi S, Eurocare 6 Working Group {gatta G, Sant M, Berrino F, Trama A, Lillini R, Bernasconi A, Bonfarnuzzo S, Vener C, DidonÉ F, Lasalvia P, Buratti L, Tagliabue G, Capocaccia R}. Complete cancer prevalence in Europe in 2020 by disease duration and country (EUROCARE-6): a population-based study. *Lancet Oncology* 2024;25:293-307
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- 29 - Pavarini M, Alborghetti L, Aimonetto S, Maggio A, Landoni V, Ferrari P, Bianculli A, Petrucci E, Cicchetti A, Farina B, Ubeira Gabellini Mg, Salmoiraghi P, Moretti E, Avuzzi B, Giandini T, Munoz F, Magli A, Sanguineti G, Magdalena Waskiewicz J, Rago L, Cante D, Girelli G, Vavassori V, Di Muzio Ng, Rancati T, Cozzarini C, Fiorino C. Pelvic bone marrow dose-volume predictors of late lymphopenia following pelvic lymph node radiation therapy for prostate cancer. *Radiotherapy And Oncology* 2024;195:110230
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- 31 - Maggio A, Rancati T, Gatti M, Cante D, Avuzzi B, Bianconi C, Badenchini F, Farina B, Ferrari P, Giandini T, Girelli G, Landoni V, Magli A, Moretti E, Petrucci E, Salmoiraghi P, Sanguineti G, Villa E, Waskiewicz Jm, Guarneri A, Valdaghi R, Fiorino C, Cozzarini C. Quality of Life Longitudinal Evaluation in Prostate Cancer Patients from Radiotherapy Start to 5 Years after IMRT-IGRT. *Current Oncology* 2024;31:839-848
- 32 - Jackson A, Hua C H, Olch A, Yorke Ed, Rancati T, Milano Mt, Constine Ls, Marks Lb, Bentzen Sm. Reporting Standards for Complication Studies of Radiation Therapy for Pediatric Cancer: Lessons From PENTEC. *International Journal Of Radiation Oncology Biology Physics* 2024;119:695-705
- 33 - Niger M, Nichetti F, Fornaro L, Pircher C, Morano F, Palermo F, Rimassa L, Pressiani T, Berardi R, Gardini Ac, Sperti E, Salvatore L, Melisi D, Bergamo F, Siena S, Mosconi S, Longarini R, Arcangeli G, Corallo S, Delliponti L, Tamberi S, Fea E, Brandi G, Rapposelli Ig, Salati M, Baili P, Miceli R, Ljevar S, Cavallo I, Sottotetti E, Martinetti A, Busset Mdd, Sposito C, Di Bartolomeo M, Pietrantonio F, De Braud F, Mazzaferro V. A phase II/III randomized clinical trial of CisPlatin pIUs Gemcitabine and Nabpaclitaxel (GAP) as pReoperative chemotherapy versus immediate resection in patlents with resecTable BiliarY Tract Cancers (BTC) at high risk for recurrence: PURITY study. *Bmc Cancer* 2024;24:436
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- 35 - Hua Ch, Bentzen Sm, Li Y, Milano Mt, Rancati T, Marks Lb, Constine Ls, Yorke Ed, Jackson A. Improving Pediatric Normal Tissue Radiation Dose-Response Modeling in Children With Cancer: A PENTEC Initiative. *International Journal Of Radiation Oncology Biology Physics* 2024;119:369-386
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- 38 - Rosas Jc, Aguado Barrera Me, Azria D, Briers E, Elliott R, Farcy Jacquet Mp, Giraldo A, Gutiérrez Enríquez S, Rancati T, Rattay T, Reyes V, Rosenstein B, De Ruysscher D, Sperk E, Stobart H, Talbot C, Vega A, Taboada Valladares B, Veldeman L, Ward T, Webb A, West C, Chang Claude J, Seibold P, Requite Consortium. Reply to: Comments on "(Pre)treatment risk factors for late fatigue and fatigue trajectories following radiotherapy for breast cancer". *International Journal Of Cancer* 2024;154:759-761

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