

PERSONAL INFORMATION

Nicola Dinapoli



✉ nicola.dinapoli@policlinicogemelli.it

WORK EXPERIENCE

-
- 01/12/2003–30/04/2010 **Medico a Contratto con qualifica di Dirigente Medico di Primo Livello**
Policlinico Universitario A. Gemelli, Roma (Italy)
- 01/05/2010–Present **Dirigente Medico di Primo Livello con contratto a tempo indeterminato**
Fondazione Policlinico Universitario A. Gemelli IRCCS, Roma (Italy)
Extensive experience in radiation therapy treatment planning, for external beam techniques, experience in planning simulation and special techniques implementation and adoption such as IMRT, IGRT and stereotactic radiotherapy. Experience in imaging techniques and imaging analysis (MR, CT and PET).
- 01/01/2018–30/06/2020 **Qualifica di "Alta Specialità"**
Fondazione Policlinico Universitario A. Gemelli IRCCS, Roma (Italy)
- 01/07/2020-present **Qualifica di Responsabile Unità Operativa Semplice Innovazioni Tecnologiche in Radioterapia**
Fondazione Policlinico Universitario A. Gemelli IRCCS, Roma (Italy)

EDUCATION AND TRAINING

-
- 20/10/1999 **Medical degree "cum laude"**
Università Cattolica del Sacro Cuore, Roma (Italy)
- 27/10/2003 **Post-graduation degree "cum laude" in Radiation Oncology**
Università Cattolica del Sacro Cuore, Roma (Italy)
- 27/03/2017 **PhD in "Oncological Sciences"**
Università Cattolica del Sacro Cuore, Roma (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C2	C1	B2	C1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills

- Good communication skill and speaker in many international meetings.
- In 2008 first experience as guest speaker in the ESTRO faculty in Target Volume Delineation course (Beijing)
- Since 2011 official member of ESTRO faculty for the Advanced Treatment Planning course

Organisational / managerial skills

- Clinical Advisor for Knowledge Based Oncology laboratories, spin-off site at Fondazione Policlinico Universitario A. Gemelli IRCCS founded in January 2017.

Job-related skills

- Excellent knowledge of Varian Eclipse and Aria systems, currently used in our department for treatment planning and delivery. This experience was obtained since the first adoption of Varian technology in Policlinico A. Gemelli radiotherapy department (1999).
- Clinical experience in management of head and neck, prostate and soft tissue sarcoma patients.

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital skills - Self-assessment grid

Excellent computer skill with knowledge of several programming languages (Delphi – Object Pascal – good knowledge– MatLab – basic knowledge, R statistical software – excellent knowledge), optimal knowledge of common office software packages (Microsoft Office) and computer graphics software (particularly Adobe Photoshop, Adobe Premiere, Adobe Illustrator). Good knowledge of MedCalc statistical package.

Basic skill as system administrator for Windows (7 to 10) and Ubuntu (16.04 to 20.04) operating systems. Able to configure deep learning computing machines under Linux for GPU based modelling processes.

Basic knowledge of computer hardware configuration.

ADDITIONAL INFORMATION

Memberships

Member of following scientific societies: ESTRO, ASTRO, AIRO and AIRB. ESTRO fellowship achieved in 2013.

Academics

Achievement of “Abilitazione Scientifica Nazionale” – Professore di seconda fascia (August 2018)

Contract professor at Università Cattolica del Sacro Cuore (Rome):

- Medical School (Anatomy course: seminary about “the knowledge of lymphatic drainages”, Radiology course: radiotherapy with hadrons, radiotherapy in tumors of bones and soft tissues).
- Residency school of Radiotherapy (3rd year): radiotherapy of sarcomas.

Publications

1. Dinapoli L, Chiesa S, Dinapoli N, Gatta R, Beghella Bartoli F, Bracci S, Mazzarella C, Sanfilippo MZ, Sabatino G, Gaudino S, Della Pepa GM, Frascino V, Valentini V, Balducci M. Personalised support of brain tumour patients during radiotherapy based on psychological profile and quality of life. *Support Care Cancer*. 2021 Jan 22. doi: 10.1007/s00520-021-06000-7. Epub ahead of print. PMID: 33479794.
2. Catucci F, Alitto AR, Masciocchi C, Dinapoli N, Gatta R, Martino A, Mazzarella C, Fionda B, Frascino V, Piras A, D'Aviero A, Preziosi F, Palazzoni G, Valentini V, Mantini G. Predicting Radiotherapy Impact on Late Bladder Toxicity in Prostate Cancer Patients: An Observational Study. *Cancers (Basel)*. 2021 Jan 6;13(2):175. doi: 10.3390/cancers13020175. PMID: 33419144; PMCID: PMC7825573.
3. Chiloiro G, Rodriguez-Camero P, Lenkowicz J, Casà C, Masciocchi C, Boldrini L, Cusumano D, Dinapoli N, Meldolesi E, Carano D, Damiani A, Barbaro B, Manfredi R, Valentini V, Gambacorta MA. Delta Radiomics Can Predict Distant Metastasis in Locally Advanced Rectal Cancer: The Challenge to Personalize the Cure. *Front Oncol*. 2020 Dec 3;10:595012. doi: 10.3389/fonc.2020.595012. PMID: 33344243; PMCID: PMC7744725.
4. Mattiucci GC, Boldrini L, Nardangeli A, D'Aviero A, Buwenge M, Cellini F, Deodato F, Dinapoli N, Frascino V, Macchia G, Morganti AG, Valentini V. Correction to: Hypofractionated sequential radiotherapy boost: a promising strategy in inoperable locally advanced pancreatic cancer patients. *J Cancer Res Clin Oncol*. 2021 Mar;147(3):669. doi: 10.1007/s00432-020-03439-9. Erratum for: *J Cancer Res Clin Oncol*. 2021 Mar;147(3):661-667. PMID: 33165642.
5. Cusumano D, Lenkowicz J, Votta C, Boldrini L, Placidi L, Catucci F, Dinapoli N, Antonelli MV, Romano A, De Luca V, Chiloiro G, Indovina L, Valentini V. A deep learning approach to generate synthetic CT in low field MR-guided adaptive radiotherapy for abdominal and pelvic cases. *Radiother Oncol*. 2020 Dec;153:205-212. doi: 10.1016/j.radonc.2020.10.018. Epub 2020 Oct 17. PMID: 33075394.
6. Mattiucci GC, Boldrini L, Nardangeli A, D'Aviero A, Buwenge M, Cellini F, Deodato F, Dinapoli N, Frascino V, Macchia G, Morganti AG, Valentini V. Hypofractionated sequential radiotherapy boost: a promising strategy in inoperable locally advanced pancreatic cancer patients. *J Cancer Res Clin Oncol*. 2021 Mar;147(3):661-667. doi: 10.1007/s00432-020-03411-7. Epub 2020 Oct 1. Erratum in: *J Cancer Res Clin Oncol*. 2020 Nov 9; PMID: 33001271.
7. Cusumano D, Meijer G, Lenkowicz J, Chiloiro G, Boldrini L, Masciocchi C, Dinapoli N, Gatta R, Casà C, Damiani A, Barbaro B, Gambacorta MA, Azario L, De Spirito M, Intven M, Valentini V. A field strength independent MR radiomics model to predict pathological complete response in locally advanced rectal cancer. *Radiol Med*. 2020 Aug 24. doi: 10.1007/s11547-020-01266-z. Epub ahead of print. PMID: 32833198.
8. Placidi L, Lenkowicz J, Cusumano D, Boldrini L, Dinapoli N, Valentini V. Stability of dosomics features extraction on grid resolution and algorithm for radiotherapy dose calculation. *Phys Med*. 2020 Sep;77:30-35. doi: 10.1016/j.ejmp.2020.07.022. Epub 2020 Aug 5. PMID: 32768918.
9. Lancellotta V, Guinot JL, Fionda B, Rembielak A, Di Stefani A, Gentileschi S, Federico F, Rossi E, Guix B, Chyrek AJ, Meritxell A, Villalba SR, Colloca GF, Dinapoli N, Masciocchi C, Lenkowicz J, Capocchiano ND, Damiani A, Valentini V, Kovács G, Tagliaferri L. SKIN-COBRA (Consortium for Brachytherapy data Analysis) ontology: The first step towards interdisciplinary standardized data collection for personalized oncology in skin cancer. *J Contemp Brachytherapy*. 2020 Apr;12(2):105-110. doi: 10.5114/jcb.2020.94579. Epub 2020 Apr 30. PMID: 32395133; PMCID: PMC7207239.
10. Boldrini L, Dinapoli N, Valentini V. Radiotherapy imaging: An unexpected ally in fighting COVID 19 pandemic. *Radiother Oncol*. 2020 Jul;148:223-224. doi: 10.1016/j.radonc.2020.04.036. Epub 2020 Apr 25. PMID: 32342876; PMCID: PMC7194723.
11. Zwanenburg A, Vallières M, Abdalah MA, Aerts HJWL, Andrearczyk V, Apte A, Ashrafinia S, Bakas S, Beukinga RJ, Boellaard R, Bogowicz M, Boldrini L, Buvat I, Cook GJR, Davatzikos C, Depeursinge A, Desserot MC, Dinapoli N, Dinh CV, Echegaray S, El Naqa I, Fedorov AY, Gatta R, Gillies RJ, Goh V, Götz M, Guckenberger M, Ha SM, Hatt M, Isensee F, Lambin P, Leger S, Leijenaar RTH, Lenkowicz J, Lippert F, Losnegård A, Maier-Hein KH, Morin O, Müller H, Napel S, Nioche C, Orhac F, Pati S, Pfaehler EAG, Rahmim A, Rao AUK, Scherer J, Siddique MM, Sijtsma NM, Socarras Fernandez J, Spezi E, Steenbakkers RJHM, Tanadini-Lang S, Thorwarth D, Troost EGC, Upadhyaya T, Valentini V, van Dijk LV, van Griethuysen J, van Velden FHP, Whybra P, Richter C, Löck S. The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. *Radiology*. 2020 May;295(2):328-338. doi: 10.1148/radiol.2020191145. Epub 2020 Mar 10. PMID: 32154773; PMCID: PMC7193906.

12. Fionda B, Massaccesi M, Tagliaferri L, Dinapoli N, Iezzi R, Boldrini L. Abscopal effect and interventional oncology: state of art and future perspectives. *Eur Rev Med Pharmacol Sci*. 2020 Jan;24(2):773-776. doi: 10.26355/eurrev_202001_20058. PMID: 32016981.
13. Cilla S, Ianiro A, Romano C, Deodato F, Macchia G, Buwenge M, Dinapoli N, Boldrini L, Morganti AG, Valentini V. Template-based automation of treatment planning in advanced radiotherapy: a comprehensive dosimetric and clinical evaluation. *Sci Rep*. 2020 Jan 16;10(1):423. doi: 10.1038/s41598-019-56966-y. PMID: 31949178; PMCID: PMC6965209.
14. Cusumano D, Placidi L, Teodoli S, Boldrini L, Greco F, Longo S, Cellini F, Dinapoli N, Valentini V, De Spirito M, Azario L. On the accuracy of bulk synthetic CT for MR-guided online adaptive radiotherapy. *Radiol Med*. 2020 Feb;125(2):157-164. doi: 10.1007/s11547-019-01090-0. Epub 2019 Oct 8. PMID: 31591701.
15. Massaccesi M, Cusumano D, Boldrini L, Dinapoli N, Fionda B, Teodoli S, Azario L, Mattiucci GC, Balducci M, Cellini F, Valentini V. A new frontier of image guidance: Organs at risk avoidance with MRI-guided respiratory-gated intensity modulated radiotherapy: Technical note and report of a case. *J Appl Clin Med Phys*. 2019 Jun;20(6):194-198. doi: 10.1002/acm2.12575. Epub 2019 May 4. PMID: 31055870; PMCID: PMC6560311.
16. Dinapoli L, Massaccesi M, Colloca G, Tenore A, Dinapoli N, Valentini V. Efficacy of an eye movement desensitization and reprocessing (EMDR) intervention for a head and neck cancer patient with intolerable anxiety undergoing radiotherapy. *Psychooncology*. 2019 Mar;28(3):647-649. doi: 10.1002/pon.5000. Epub 2019 Feb 6. PMID: 30664291.
17. Boldrini L, Cusumano D, Chiloiro G, Casà C, Masciocchi C, Lenkowicz J, Cellini F, Dinapoli N, Azario L, Teodoli S, Gambacorta MA, De Spirito M, Valentini V. Delta radiomics for rectal cancer response prediction with hybrid 0.35 T magnetic resonance-guided radiotherapy (MRgRT): a hypothesis-generating study for an innovative personalized medicine approach. *Radiol Med*. 2018 Oct 29. doi: 10.1007/s11547-018-0951-y. [Epub ahead of print] PubMed PMID: 30374650.
18. Gatta R, Vallati M, Dinapoli N, Masciocchi C, Lenkowicz J, Cusumano D, Casà C, Farchione A, Damiani A, van Soest J, Dekker A, Valentini V. Towards a modular decision support system for radiomics: A case study on rectal cancer. *Artif Intell Med*. 2018 Oct 3. pii: S0933-3657(17)30593-6. doi: 10.1016/j.artmed.2018.09.003. [Epub ahead of print] PubMed PMID: 30292538.
19. Diletto B, Dinapoli N, Chiesa S, Mattiucci GC, Frascino V, Anile C, Colosimo C, Valentini V, Balducci M. Hypofractionated stereotactic radiotherapy for oligometastatic patients: developing of a response predictive model. *Med Oncol*. 2018 Sep 14;35(11):146. doi: 10.1007/s12032-018-1206-4. PubMed PMID: 30218407.
20. Filograna L, Lenkowicz J, Cellini F, Dinapoli N, Manfrida S, Magarelli N, Leone A, Colosimo C, Valentini V. Identification of the most significant magnetic resonance imaging (MRI) radiomic features in oncological patients with vertebral bone marrow metastatic disease: a feasibility study. *Radiol Med*. 2018 Sep 6. doi: 10.1007/s11547-018-0935-y. [Epub ahead of print] PubMed PMID: 30191445.
21. Tagliaferri L, Budrukkar A, Lenkowicz J, Cambeiro M, Bussu F, Guinot JL, Hildebrandt G, Johansson B, Meyer JE, Niehoff P, Rovirosa A, Takácsi-Nagy Z, Boldrini L, Dinapoli N, Lanzotti V, Damiani A, Gatta R, Fionda B, Lancellotta V, Soror T, Monge RM, Valentini V, Kovács G. ENT COBRA ONTOLOGY: the covariates classification system proposed by the Head & Neck and Skin GEC-ESTRO Working Group for interdisciplinary standardized data collection in head and neck patient cohorts treated with interventional radiotherapy (brachytherapy). *J Contemp Brachytherapy*. 2018 Jun;10(3):260-266. doi: 10.5114/jcb.2018.76982. Epub 2018 Jun 30. Review. PubMed PMID: 30038647; PubMed Central PMCID: PMC6052377.
22. Dinapoli N, Barbaro B, Gatta R, Chiloiro G, Casà C, Masciocchi C, Damiani A, Boldrini L, Gambacorta MA, Dezio M, Mattiucci GC, Balducci M, van Soest J, Dekker A, Lambin P, Fiorino C, Sini C, De Cobelli F, Di Muzio N, Gumina C, Passoni P, Manfredi R, Valentini V. Magnetic Resonance, Vendor-independent, Intensity Histogram Analysis Predicting Pathologic Complete Response After Radiochemotherapy of Rectal Cancer. *Int J Radiat Oncol Biol Phys*. 2018 Nov 15;102(4):765-774. doi: 10.1016/j.ijrobp.2018.04.065. Epub 2018 May 4. PubMed PMID: 29891200.
23. Tagliaferri L, Gobitti C, Colloca GF, Boldrini L, Farina E, Furlan C, Paiar F, Vianello F, Basso M, Cerizza L, Monari F, Simontacchi G, Gambacorta MA, Lenkowicz J, Dinapoli N, Lanzotti V, Mazzarotto R, Russi E, Mangoni M. A new standardized data collection system for interdisciplinary thyroid cancer management: Thyroid COBRA. *Eur J Intern Med*. 2018 Jul;53:73-78. doi: 10.1016/j.ejim.2018.02.012. Epub 2018 Feb 21. PubMed PMID: 29477755.
24. Cusumano D, Dinapoli N, Boldrini L, Chiloiro G, Gatta R, Masciocchi C, Lenkowicz J, Casà C, Damiani A, Azario L, Van Soest J, Dekker A, Lambin P, De

- Spirito M, Valentini V. Fractal-based radiomic approach to predict complete pathological response after chemo-radiotherapy in rectal cancer. *Radiol Med*. 2018 Apr;123(4):286-295. doi: 10.1007/s11547-017-0838-3. Epub 2017 Dec 11. PubMed PMID: 29230678.
25. Cozzi L, Dinapoli N, Fogliata A, Hsu WC, Reggiori G, Lobefalo F, Kirienko M, Sollini M, Franceschini D, Comito T, Franzese C, Scorsetti M, Wang PM. Radiomics based analysis to predict local control and survival in hepatocellular carcinoma patients treated with volumetric modulated arc therapy. *BMC Cancer*. 2017 Dec 6;17(1):829. doi: 10.1186/s12885-017-3847-7. PubMed PMID: 29207975; PubMed Central PMCID: PMC5718116.
 26. Dinapoli N, Tartaglione T, Bussu F, Autorino R, Miccichè F, Sciandra M, Visconti E, Colosimo C, Paludetti G, Valentini V. Modelling tumour volume variations in head and neck cancer: contribution of magnetic resonance imaging for patients undergoing induction chemotherapy. *Acta Otorhinolaryngol Ital*. 2017 Feb;37(1):9-16. doi: 10.14639/0392-100X-906. PubMed PMID: 27897274; PubMed Central PMCID: PMC5384316.
 27. Tagliaferri L, Kovács G, Autorino R, Budrukkar A, Guinot JL, Hildebrand G, Johansson B, Monge RM, Meyer JE, Niehoff P, Rovirosa A, Takácsi-Nagy Z, Dinapoli N, Lanzotti V, Damiani A, Soror T, Valentini V. ENT COBRA (Consortium for Brachytherapy Data Analysis): interdisciplinary standardized data collection system for head and neck patients treated with interventional radiotherapy (brachytherapy). *J Contemp Brachytherapy*. 2016 Aug;8(4):336-43. doi: 10.5114/jcb.2016.61958. Epub 2016 Aug 26. Review. PubMed PMID: 27648088; PubMed Central PMCID: PMC5018530.
 28. Liu WY, Dinapoli N, Wang X, Meldolesi E, Gambacorta MA, Chiloiro G, Ren H, Fang H, Lu NN, Tang Y, Deng L, Wang JY, Jing H, Xiao Q, Feng YR, Li YX, Wang SL, Song YW, Liu YP, Wang WH, Valentini V, Jin J. Possible contribution of IMRT in postoperative radiochemotherapy for rectal cancer: analysis on 1798 patients by prediction model. *Oncotarget*. 2016 Jul 19;7(29):46536-46544. doi: 10.18632/oncotarget.10228. PubMed PMID: 27340785; PubMed Central PMCID: PMC5216815.
 29. Gambacorta MA, Boldrini L, Valentini C, Dinapoli N, Mattiucci GC, Chiloiro G, Pasini D, Manfrida S, Caria N, Minsky BD, Valentini V. Automatic segmentation software in locally advanced rectal cancer: READY (REsearch program in Auto Delineation sYstem)-RECTAL 02: prospective study. *Oncotarget*. 2016 Jul 5;7(27):42579-42584. doi: 10.18632/oncotarget.9938. PubMed PMID: 27302924; PubMed Central PMCID: PMC5173157.
 30. Dinapoli N, Alitto AR, Vallati M, Gatta R, Autorino R, Boldrini L, Damiani A, Valentini V. Moddicom: a complete and easily accessible library for prognostic evaluations relying on image features. *Conf Proc IEEE Eng Med Biol Soc*. 2015 Aug;2015:771-4. doi: 10.1109/EMBC.2015.7318476. PubMed PMID: 26736376.
 31. Meldolesi E, van Soest J, Damiani A, Dekker A, Alitto AR, Campitelli M, Dinapoli N, Gatta R, Gambacorta MA, Lanzotti V, Lambin P, Valentini V. Standardized data collection to build prediction models in oncology: a prototype for rectal cancer. *Future Oncol*. 2016 Jan;12(1):119-36. doi: 10.2217/fo.15.295. Epub 2015 Dec 17. Review. PubMed PMID: 26674745.
 32. Bussu F, Tagliaferri L, Mattiucci G, Parrilla C, Dinapoli N, Miccichè F, Artuso A, Galli J, Almadori G, Valentini V, Paludetti G. Comparison of interstitial brachytherapy and surgery as primary treatments for nasal vestibule carcinomas. *Laryngoscope*. 2016 Feb;126(2):367-71. doi: 10.1002/lary.25498. Epub 2015 Sep 15. PubMed PMID: 26372494.
 33. Meldolesi E, van Soest J, Dinapoli N, Dekker A, Damiani A, Gambacorta MA, Valentini V. Medicine is a science of uncertainty and an art of probability (Sir W. Osler). *Radiother Oncol*. 2015 Jan;114(1):132-4. doi: 10.1016/j.radonc.2014.12.013. Epub 2015 Jan 20. PubMed PMID: 25616538.
 34. Bussu F, Mura F, Miccichè F, Bertino G, Occhini A, Almadori G, Galli J, Pandolfini M, Gallus R, Autorino R, Guidi ML, Dinapoli N, Valentini V, Paludetti G, Benazzo M. Oncologic outcome of hypopharyngeal carcinoma treated with different modalities at 2 different university hospitals. *Head Neck*. 2016 Apr;38(4):606-12. doi: 10.1002/hed.23938. Epub 2015 Jun 22. PubMed PMID: 25491424.
 35. Bussu F, Sali M, Gallus R, Petrone G, Zannoni GF, Autorino R, Dinapoli N, Santangelo R, Vellone VG, Graziani C, Miccichè F, Almadori G, Galli J, Delogu G, Sanguinetti M, Rindi G, Tommasino M, Valentini V, Paludetti G. Human papillomavirus (HPV) infection in squamous cell carcinomas arising from the

- oropharynx: detection of HPV DNA and p16 immunohistochemistry as diagnostic and prognostic indicators--a pilot study. *Int J Radiat Oncol Biol Phys.* 2014 Aug 1;89(5):1115-1120. doi: 10.1016/j.ijrobp.2014.04.044. Epub 2014 Jul 8. PubMed PMID: 25035216.
36. Broggi S, Scalco E, Fiorino C, Belli ML, Sanguineti G, Ricchetti F, Dell'Oca I, Dinapoli N, Valentini V, Di Muzio N, Cattaneo GM, Rizzo G. The Shape of Parotid DVH Predicts the Entity of Gland Deformation During IMRT for Head and Neck Cancers. *Technol Cancer Res Treat.* 2015 Dec;14(6):683-91. doi: 10.7785/tcrt.2012.500440. Epub 2014 Nov 26. PubMed PMID: 24945374.
 37. Meldolesi E, van Soest J, Dinapoli N, Dekker A, Damiani A, Gambacorta MA, Valentini V. An umbrella protocol for standardized data collection (SDC) in rectal cancer: a prospective uniform naming and procedure convention to support personalized medicine. *Radiother Oncol.* 2014 Jul;112(1):59-62. doi: 10.1016/j.radonc.2014.04.008. Epub 2014 May 19. PubMed PMID: 24853366.
 38. Ricci F, Paradisi A, Silveri SL, Sampogna F, Miccichè F, Bonomo PL, DiNapoli N, Valentini V, Capizzi R, Guerriero C. Adverse skin reactions during treatment with cetuximab plus radiotherapy: Multidisciplinary approach to minimize radio-chemotherapy interruption. *J Dermatolog Treat.* 2015 Apr;26(2):183-7. doi: 10.3109/09546634.2014.927815. Epub 2014 Jun 17. PubMed PMID: 24852820.
 39. Belli ML, Scalco E, Sanguineti G, Fiorino C, Broggi S, Dinapoli N, Ricchetti F, Valentini V, Rizzo G, Cattaneo GM. Early changes of parotid density and volume predict modifications at the end of therapy and intensity of acute xerostomia. *Strahlenther Onkol.* 2014 Oct;190(11):1001-7. doi: 10.1007/s00066-014-0669-2. Epub 2014 Apr 23. PubMed PMID: 24756139.
 40. Valentini V, Dinapoli N, Damiani A. The future of predictive models in radiation oncology: from extensive data mining to reliable modeling of the results. *Future Oncol.* 2013 Mar;9(3):311-3. doi: 10.2217/fo.12.197. PubMed PMID: 23469966.
 41. Bussu F, Sali M, Gallus R, Vellone VG, Zannoni GF, Autorino R, Dinapoli N, Santangelo R, Martucci R, Graziani C, Miccichè F, Almadori G, Galli J, Delogu G, Sanguinetti M, Rindi G, Valentini V, Paludetti G. HPV infection in squamous cell carcinomas arising from different mucosal sites of the head and neck region. Is p16 immunohistochemistry a reliable surrogate marker? *Br J Cancer.* 2013 Mar 19;108(5):1157-62. doi: 10.1038/bjc.2013.55. Epub 2013 Feb 12. PubMed PMID: 23403821; PubMed Central PMCID: PMC3619072.
 42. Gambacorta MA, Valentini C, Dinapoli N, Boldrini L, Caria N, Barba MC, Mattiucci GC, Pasini D, Minsky B, Valentini V. Clinical validation of atlas-based auto-segmentation of pelvic volumes and normal tissue in rectal tumors using auto-segmentation computed system. *Acta Oncol.* 2013 Nov;52(8):1676-81. doi: 10.3109/0284186X.2012.754989. Epub 2013 Jan 22. PubMed PMID: 23336255.
 43. Fiorino C, Rizzo G, Scalco E, Broggi S, Belli ML, Dell'Oca I, Dinapoli N, Ricchetti F, Rodriguez AM, Di Muzio N, Calandrino R, Sanguineti G, Valentini V, Cattaneo GM. Density variation of parotid glands during IMRT for head-neck cancer: correlation with treatment and anatomical parameters. *Radiother Oncol.* 2012 Aug;104(2):224-9. doi: 10.1016/j.radonc.2012.06.003. Epub 2012 Jul 16. PubMed PMID: 22809587.
 44. Autorino R, Miccichè F, Dinapoli N, Bussu F, Balducci M, Mattiucci GC, Galli J, Tartaglione T, Rufini V, Almadori G, Paludetti G, Valentini V. Recurrence in region of spared parotid gland in patient receiving definitive intensity-modulated radiotherapy for nasopharyngeal cancer: a case report. *Acta Oncol.* 2012 Nov;51(8):1095-9. doi: 10.3109/0284186X.2012.673735. Epub 2012 Apr 23. Review. PubMed PMID: 22524213.
 45. Castaldi P, Rufini V, Bussu F, Miccichè F, Dinapoli N, Autorino R, Lago M, De Corso E, Almadori G, Galli J, Paludetti G, Giordano A, Valentini V. Can "early" and "late" ¹⁸F-FDG PET-CT be used as prognostic factors for the clinical outcome of patients with locally advanced head and neck cancer treated with radio-chemotherapy? *Radiother Oncol.* 2012 Apr;103(1):63-8. doi: 10.1016/j.radonc.2012.03.001. Epub 2012 Mar 27. PubMed PMID: 22459579.
 46. Valentini V, Marazzi F, Bossola M, Miccichè F, Nardone L, Balducci M, Dinapoli N, Bonomo P, Autorino R, Silipigni S, Giuliani F, Tamanti C, Mele MC, Martorana GE. Nutritional counselling and oral nutritional supplements in head and neck cancer patients undergoing chemoradiotherapy. *J Hum Nutr Diet.* 2012 Jun;25(3):201-8. doi: 10.1111/j.1365-277X.2011.01220.x. Epub 2012 Jan 19. PubMed PMID: 22257023.
 47. Balducci M, Chiesa S, Chieffo D, Manfrida S, Dinapoli N, Fiorentino A,

- Miccichè F, Frascino V, Anile C, Valentini V, De Bari B. The role of radiotherapy in adult medulloblastoma: long-term single-institution experience and a review of the literature. *J Neurooncol.* 2012 Jan;106(2):315-23. doi: 10.1007/s11060-011-0665-7. Epub 2011 Jul 31. Review. Erratum in: *J Neurooncol.* 2012 Jan;106(2):325. PubMed PMID: 21805324.
48. D'Agostino GR, Autorino R, Pompucci A, De Santis MC, Manfrida S, Di Lella G, Mantini G, Frascino V, Chiesa S, Albanese A, Dinapoli N, Azario L, Fiorentino A, Valentini V, Anile C, Balducci M. Whole-brain radiotherapy combined with surgery or stereotactic radiotherapy in patients with brain oligometastases: long-term analysis. *Strahlenther Onkol.* 2011 Jul;187(7):421-5. doi: 10.1007/s00066-011-2228-4. Epub 2011 Jun 28. PubMed PMID: 21713390.
 49. Bussu F, Miccichè F, Rigante M, Dinapoli N, Parrilla C, Bonomo P, Cadoni G, Mantini G, Galli J, Rufini V, Almadori G, Valentini V, Paludetti G. Oncologic outcomes in advanced laryngeal squamous cell carcinomas treated with different modalities in a single institution: a retrospective analysis of 65 cases. *Head Neck.* 2012 Apr;34(4):573-9. doi: 10.1002/hed.21785. Epub 2011 Jun 20. PubMed PMID: 21692130.
 50. Mantini G, Tagliaferri L, Mattiucci GC, Balducci M, Frascino V, Dinapoli N, Di Gesù C, Ippolito E, Morganti AG, Cellini N. Effect of whole pelvic radiotherapy for patients with locally advanced prostate cancer treated with radiotherapy and long-term androgen deprivation therapy. *Int J Radiat Oncol Biol Phys.* 2011 Dec 1;81(5):e721-6. doi: 10.1016/j.ijrobp.2010.12.003. Epub 2011 Jan 27. PubMed PMID: 21277100.
 51. Dinapoli N, Parrilla C, Galli J, Autorino R, Miccichè F, Bussu F, Balducci M, D'Alatri L, Marchese R, Rigante M, Di Lella G, Liberati L, Almadori G, Paludetti G, Valentini V. Multidisciplinary approach in the treatment of T1 glottic cancer. The role of patient preference in a homogenous patient population. *Strahlenther Onkol.* 2010 Nov;186(11):607-13. doi: 10.1007/s00066-010-2142-1. Epub 2010 Nov 8. PubMed PMID: 21069268.
 52. Balducci M, Apicella G, Manfrida S, Mangiola A, Fiorentino A, Azario L, D'Agostino GR, Frascino V, Dinapoli N, Mantini G, Albanese A, de Bonis P, Chiesa S, Valentini V, Anile C, Cellini N. Single-arm phase II study of conformal radiation therapy and temozolomide plus fractionated stereotactic conformal boost in high-grade gliomas: final report. *Strahlenther Onkol.* 2010 Oct;186(10):558-64. doi: 10.1007/s00066-010-2101-x. Epub 2010 Sep 30. PubMed PMID: 20936460.
 53. Broggi S, Fiorino C, Dell'Oca I, Dinapoli N, Paiusco M, Muraglia A, Maggiulli E, Ricchetti F, Valentini V, Sanguineti G, Cattaneo GM, Di Muzio N, Calandrino R. A two-variable linear model of parotid shrinkage during IMRT for head and neck cancer. *Radiother Oncol.* 2010 Feb;94(2):206-12. doi: 10.1016/j.radonc.2009.12.014. Epub 2010 Feb 1. PubMed PMID: 20117852.
 54. Valentini V, Cellini F, Minsky BD, Mattiucci GC, Balducci M, D'Agostino G, D'Angelo E, Dinapoli N, Nicolotti N, Valentini C, La Torre G. Survival after radiotherapy in gastric cancer: systematic review and meta-analysis. *Radiother Oncol.* 2009 Aug;92(2):176-83. doi: 10.1016/j.radonc.2009.06.014. Epub 2009 Jul 6. Review. PubMed PMID: 19586672.
 55. Valentini V, Massaccesi M, Balducci M, Mantini G, Micciché F, Mattiucci GC, Dinapoli N, Meduri B, D'Agostino GR, Salvi G, Nardone L. Low-dose hyperradiosensitivity: is there a place for future investigation in clinical settings? *Int J Radiat Oncol Biol Phys.* 2010 Feb 1;76(2):535-9. doi: 10.1016/j.ijrobp.2009.02.075. Epub 2009 Jun 18. PubMed PMID: 19540061.
 56. Morganti AG, Pasquarelli L, Deodato F, Digesù C, Di Falco C, Dinapoli N, Macchia G, Picardi V, Tagliaferri L, Valentini V, Cellini N. Videoconferencing to enhance the integration between clinical medicine and teaching: a feasibility study. *Tumori.* 2008 Nov-Dec;94(6):822-9. PubMed PMID: 19267099.
 57. Balducci M, Mattiucci GC, Dinapoli N, Bavasso A, de Renzi F, Marazzi F, Maronta D, Deodato F. Impact of dose and volume on the tolerance of central nervous system. *Rays.* 2005 Apr-Jun;30(2):189-95. Review. PubMed PMID: 16294913.
 58. Mantini G, Smaniotto D, Balducci M, Dinapoli N, Campitelli M, Corvari B, Simili A, Ciarniello V. Radiation-induced cardiovascular disease: impact of dose and volume. *Rays.* 2005 Apr-Jun;30(2):157-68. Review. PubMed PMID: 16294909.
 59. Dinapoli N, Valentini V, Balducci M, Mantini G, Apicella G, Morganti AG. Compensation for gaps in radiotherapy: suggested teaching approach to its calculation. *Rays.* 2004 Jul-Sep;29(3):279-82. PubMed PMID: 15603298.
 60. Valentini V, Dinapoli N, Nori S, Mattiucci GC, Mantello G, Marucci L, Rosetto ME, Cellini N. An application of visible human database in radiotherapy: tutorial

for image guided external radiotherapy (TIGER). *Radiother Oncol.* 2004 Feb;70(2):165-9. PubMed PMID: 15028403.

61. Salvi G, Dinapoli N, Maronta D. Clinical target volume definition in the elderly patient. *Rays.* 2003 Jul-Sep;28(3):343-4. PubMed PMID: 15018323.
62. Arcangeli S, Valentini V, Nori SL, Fares C, Dinapoli N, Gambacorta MA. Underlying anatomy for CTV contouring and lymphatic drainage in rectal cancer radiation therapy. *Rays.* 2003 Jul-Sep;28(3):331-6. Review. PubMed PMID: 15018321.
63. Valentini V, Piermattei A, Morganti AG, Gambacorta MA, Azario L, Macchia G, Deodato F, Cilla S, Pepe D, Grimaldi L, Dinapoli N, Cellini N. Virtual simulation: fifteen years later. *Rays.* 2003 Jul-Sep;28(3):293-8. Review. PubMed PMID: 15018316.
64. Cellini N, Morganti AG, Mattiucci GC, Valentini V, Leone M, Luzi S, Manfredi R, Dinapoli N, Digesu' C, Smaniotto D. Analysis of intraprostatic failures in patients treated with hormonal therapy and radiotherapy: implications for conformal therapy planning. *Int J Radiat Oncol Biol Phys.* 2002 Jul 1;53(3):595-9. PubMed PMID: 12062602.