

# **Stefania Volpe MD, PhD**

E-mail Address: [stefania.volpe@ieo.it](mailto:stefania.volpe@ieo.it); [dr.stefaniavolpe@gmail.com](mailto:dr.stefaniavolpe@gmail.com)

Date of Birth: 26/09/1988

Nationality: Italian

C.F. VLPSFN88P66F205M

## **PROFESSIONAL EXPERIENCE**

12/2023- Present

### **Research Associate- Ricercatore a tempo determinato di tipo A (RTDA)**

University of Milan, Dept. of Oncology and Hemato-oncology, Via Festa del Perdono 7, 20122, Milan, Italy

12/2019- Present

### **Radiation Oncologist**

European Institute of Oncology (IEO) IRCCS, Via Ripamonti 435, 20141, Milan, Italy

## **EDUCATION TRAINING**

## **AND**

09/2019- 12/2023

### **PhD Program- System Medicine/ Computational Biology Curriculum**

European Institute of Oncology (IEO) IRCCS, Via Ripamonti 435, 20141, Milan, Italy

*Research training and activity on precision radiotherapy, with the development of specific knowledge in the areas of Biology, Medicine, Mathematics, Statistics and Information Technology.*

05/2022- 05/2022

### **Clinical Observership- Radiation Oncologist**

University Medical Center Groningen (UMCG), Hanzeplein 1, Groningen 9713, Groningen, Netherlands

*Clinical activities, with a specific focus on proton therapy applications (indication, treatment planning, normal tissue complication probability- NTCP modeling)*

12/2014- 12/2019

### **Resident- Radiation Oncology**

Università degli Studi di Milano, Department of Oncology and Hemato-Oncology, Via Festa del Perdono 7, 20122 Milan, Italy

European Institute of Oncology (IEO) IRCCS, Via Ripamonti 435, 20141, Milan, Italy

*Provide general clinical care in outpatient clinics, manage radiation- related toxicities, assistance in treatment planning, clinical research activity.*

01/04/2014- 30/09/2019

### **Clinical and Research Observership**

Centre Antoine Lacassagne- Institut Méditerranéen de ProtonThérapie, 227 Av. de la Lanterne, 06200 Nice, France

*Clinical activities, with a specific focus on proton therapy applications and pediatric cancers*

01/04/2017- 30/09/2017

### **Rotating Resident- Research**

MD Anderson Cancer Center - Department of Radiation Oncology, Houston (TX), United States of America

*Clinical research activities, research focus is personalized radiotherapy techniques by incorporation of novel imaging methodologies (e.g. Radiomics) and predictive modeling in the setting of Head and Neck tumors.*

01/07/2014- 31/03/2016

### **Medical Doctor on Call**

Azienda Sanitaria Locale di Milano, Milan, Italy

*General medicine practice and care during week- ends and night shifts, provide patient diagnosis under strict time constraints*

20/07/2013- 31/07/2014

### **Medical Assistant**

Azienda Ospedaliera San Paolo- Medical Oncology Department, Milan, Italy

*Assistance in daily clinical practice in inpatient and outpatient clinics, palliative care, management of chemotherapy- related toxicities*

03/2011- 07/2013

### **Medical Undergraduate Training**

Medical Oncology Department- Azienda Ospedaliera San Paolo, Via Antonio di Rudinì 8, 20142, Milan, Italy

*Assistance in daily clinical practice in inpatient and outpatient clinics, palliative care*

09/2007- 07/2013

### **Medical Degree with Honors**

Università degli Studi di Milano- Via Festa del Perdono 7, 20122, Milan, Italy

*Dissertation Titled: "Prognostic value of KRAS and BRAF mutation status in patients treated by liver metastasectomy for colo- rectal cancer"*

	09/2002- 07/2007 <b>High School Diploma with Honors</b> Liceo Scientifico Statale Luigi Cremona, Viale Marche 71/73, 20159, Milan, Italy																													
<b>LANGUAGE SKILLS</b>																														
Native Language	Italian																													
Foreign Languages	<table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">UNDERSTANDING</th> <th colspan="2">SPEAKING</th> <th>WRITING</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Spoken interaction</th> <th>Spoken production</th> <th></th> </tr> </thead> <tbody> <tr> <td>English</td> <td>C1</td> <td>C2</td> <td>C1</td> <td>C1</td> <td>C1</td> </tr> <tr> <td>French</td> <td>C1</td> <td>C1</td> <td>B2</td> <td>B2</td> <td>B2</td> </tr> <tr> <td>Arabic</td> <td>A1</td> <td>A1</td> <td>A1</td> <td>A1</td> <td>A1</td> </tr> </tbody> </table>		UNDERSTANDING		SPEAKING		WRITING	Listening	Reading	Spoken interaction	Spoken production		English	C1	C2	C1	C1	C1	French	C1	C1	B2	B2	B2	Arabic	A1	A1	A1	A1	A1
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French	C1	C1	B2	B2	B2																									
Arabic	A1	A1	A1	A1	A1																									
<b>TECHNICAL SKILLS AND QUALIFICATIONS</b>																														
02.2023 Abilitazione Scientifica Nazionale alle funzioni di Professore di II fascia- Ministero dell'Università e della Ricerca (MIUR)- National Scientific Qualification.																														
<p>Use of RayStation, Velocity AI, MIM Vista, iPlannet, Eclipse treatment planning systems</p> <p>Use of Python programming language (intermediate level, DataCamp certificate)</p> <p>Use of Image Biomarker Explorer (IBEX) for Radiomics Analysis</p> <p>Use of medical and scientific databases</p> <p>Tutoring and teaching activities for Residents in the Radiation Oncology School (University of Milan), Medicine and Surgery, Biomedical Omics and TSRM (University of Milan) and students of the Department of Electronics, Information and Bioengineering (Politecnico of Milan)</p> <p>Reviewer experience for peer-reviewed indexed medical journals</p>																														
<b>PERSONAL SKILLS</b>																														
<p>Good team player as well as independent worker</p> <p>Fast, highly motivated learner</p> <p>Strong problem solving and analytical skills</p> <p>Ability to establish and maintain a positive working environment and personal relationship with patients and colleagues</p>																														

## **AWARDED GRANTS**

Associazione Italiana per la Ricerca sul Cancer (AIRC): “MONDRIAN: multi-omics integrative modelling for stereotactic body radiotherapy in early-stage non-small cell lung cancer”, 2023-ongoing (Principal Investigator)

## **SCIENTIFIC ACTIVITIES- OTHER**

**2024- Present:** Member of the working group of the Italian Association of Radiobiology- AIRB (Associazione Italiana di Radiobiologia)

**2022:** Panelist for the Regional PDTA (Percorsi Diagnostici Terapeutici ed Assistenziali) on behalf of the Italian Association for Head and Neck Oncology- AIOCC (Associazione Italiana Oncologia Cervico-Cefalica)

**2021- 2022:** Member of the Head and Neck Cancer working group of the Italian Association of Radiation Oncology and Clinical Oncology- AIRO (Associazione Italiana di Radioterapia Oncologica e Oncologia Clinica)

**2020:** Panelist for the Regional PDTA (Percorsi Diagnostici Terapeutici ed Assistenziali) on behalf of the Italian Association for Head and Neck Oncology- AIOCC (Associazione Italiana Oncologia Cervico-Cefalica)

**2019:** Member of the panel for Grading of Recommendations, Assessment, Development, and Evaluation (GRADE)- based guidelines preparation, on behalf of the Italian Association of Radiation Oncology and Clinical Oncology- AIRO (Associazione Italiana di Radioterapia Oncologica e Oncologia Clinica)

**2018- Present:** Member of the Institutional Radiomics Working Group at the European Institute of Oncology, IEO (Istituto Europeo di Oncologia, Milan, Italy)

## **PUBLICATIONS:**

*Total number of full-text, peer-reviewed publications: 81*

*H-Index: 20, Number of Citations: 1677*

- 1. CT-Based Radiomics Enhance Respiratory Function Analysis for Lung SBRT**  
Porazzi A, Raimondi S, Piperno G, Franzetti J, Mastroleo F, Volpe S, et al.  
Bioengineering. 2025;12(8):800. doi: 10.3390/bioengineering12080800.
- 2. Perineural invasion and parotid involvement in auricular cutaneous SCC: Which volumes to treat in postoperative radiotherapy?**  
Critelli P, Parisi S, Alterio D, ... Volpe S, ... Merlotti A.  
Tumori. 2025 Jun;111(3):210-218. doi: 10.1177/03008916251334879.
- 3. Harnessing Baseline Radiomic Features in Early-Stage NSCLC: What Role in Clinical Outcome Modeling for SBRT Candidates?**  
Volpe S, Vincini MG, Zaffaroni M, Gaeta A, Raimondi S, Piperno G, et al.  
Cancers (Basel). 2025 Mar 6;17(5):908. doi: 10.3390/cancers17050908.
- 4. Facing the climate change: is radiotherapy as green as we would like? A systematic review**  
Volpe S, Mastroleo F, Vincini MG, Zaffaroni M, Marvaso G, Jereczek-Fossa BA.  
Crit Rev Oncol Hematol. 2024 Dec; 204:104500. doi: 10.1016/j.critrevonc.2024.104500.
- 5. The prognostic role of MRI-based radiomics in tongue carcinoma: a multicentric validation study.**  
Tagliabue M, Ruju F, Mossinelli C, Gaeta A, Raimondi S, **Volpe S**, Zaffaroni M, Isaksson LJ, Garibaldi C, Cremonesi M, Rapino A, Chiocca S, Pietrobon G, Alterio D, Trisolini G, Morbini P, Rampinelli V, Grammatica A, Petralia G, Jereczek-Fossa BA, Preda L, Ravanelli M, Maroldi R, Piazza C, Benazzo M, Ansarin M.  
Radiol Med. 2024 Aug 3. doi: 10.1007/s11547-024-01859-y. Epub ahead of print.
- 6. Dosimetric and NTCP analyses for selecting parotid gland cancer patients for proton therapy.**  
Camarda AM, Vincini MG, Russo S, Comi S, Emiro F, Bazani A, Ingargiola R, Vischioni B, Vecchi C, **Volpe S**, Orecchia R, Jereczek-Fossa BA, Orlandi E, Alterio D.  
Tumori. 2024 Aug;110(4):273-283. doi: 10.1177/03008916241252544. Epub 2024 May 21
- 7. Post-operative intensity-modulated vs 3D conformal radiotherapy after conservative surgery for laryngeal tumours of the supraglottic region: a dosimetric analysis on 20 patients.**  
Alterio D, Marani S, Vigorito S, Zurlo V, Zorzi SF, Ferrari A, **Volpe S**, Bandi F, Vincini MG, Gandini S, Gaeta A, Fodor CI, Casbarra A, Zaffaroni M, Starzynska A, Belgioia L, Ansarin M, Aristei C, Jereczek-Fossa BA.  
Acta Otorhinolaryngol Ital. 2024 Jun;44(3):150-160. doi:10.14639/0392-100X-N2442.
- 8. Photon vs proton hypofractionation in prostate cancer: A systematic review and meta-analysis**  
Corrao G, Marvaso G, Mastroleo F, Biffi A, Pellegrini G, Minari S, Vincini MG, Zaffaroni M, Zerini D, **Volpe S**, Gaito S, Mazzola GC, Bergamaschi L, Cattani F, Petralia G, Musi G, Ceci F, De Cobelli O, Orecchia R, Alterio D, Jereczek-Fossa BA.  
Radiother Oncol. 2024 Jun;195:110264. doi:10.1016/j.radonc.2024.110264. Epub 2024 Mar 30.
- 9. A multicenter high-quality data registry for advanced proton therapy approaches: the POWER registry.**  
Alterio D, Vincini MG, **Volpe S**, Bergamaschi L, Zaffaroni M, Gandini S, Peruzzotti G, Cattani F, Garibaldi C, Jereczek-Fossa BA, Orecchia R.  
BMC Cancer. 2024 Mar 12;24(1):333. doi: 10.1186/s12885-024-12059-2
- 10. 3D-printed boluses for radiotherapy: influence of geometrical and printing parameters on dosimetric characterization and air gap evaluation**  
Gugliandolo SG, Pillai SP, Rajendran S, Vincini MG, Pepa M, Pansini F, Zaffaroni M, Marvaso G, Alterio D, Vavassori A, Durante S, **Volpe S**, Cattani F, Jereczek-Fossa BA, Moscatelli D, Colosimo BM  
Radiol Phys Technol. 2024 Jun;17(2):347-359. doi: 10.1007/s12194-024-00782-1.
- 11. Post-operative KEloids iRradiation (POKER): does the surgery/high-dose interventional radiotherapy association make a winning hand?**  
Franzetti J, Durante S, Mastroleo F, **Volpe S**, De Lorenzi F, Rotondi M, Lorubbio C, Vitullo A, Frassoni S, Bagnardi V, Cambria R, Cattani F, Vavassori A, Jereczek-Fossa BA.  
Radiol Med. 2024 Feb;129(2):328-334. doi: 10.1007/s11547-024-01756-4. Epub 2024

**12. Multi-omics integrative modelling for stereotactic body radiotherapy in early-stage non-small cell lung cancer: clinical trial protocol of the MONDRIAN study**

Volpe S, Volpe S, Zaffaroni M, Piperno G, Vincini MG, Zerella MA, Mastroleo F, Cattani F, Fodor CI, Bellerba F, Bonaldi T, Bonizzi G, Ceci F, Cremonesi M, Fusco N, Gandini S, Garibaldi C, Torre D, Noberini R, Petralia G, Spaggiari L, Venetis K, Orecchia R, Casiraghi M, Jereczek-Fossa BA.  
BMC Cancer. 2023 Dec 15;23(1):1236. doi: 10.1186/s12885-023-11701-9.

**13. Hippocampal region avoidance in whole brain radiotherapy in brain metastases: For all or for some? A real-world feasibility report**

Corrao G, Bergamaschi L, Pierini VE, Gaeta A, Volpe S, Pepa M, Zaffaroni M, Vincini MG, Fodor CI, Piperno G, Emiro F, Ferrari A, Gandini S, Cattani F, Marvaso G, Jereczek-Fossa BA  
Tumori Journal 2023, Accepted Manuscript, <https://doi.org/10.1177/03008916231206926>

**14. More than Five Decades of Proton Therapy: A Bibliometric Overview of the Scientific Literature**

Vincini MG, Zaffaroni M, Schwarz M, Marvaso G, Mastroleo F, Volpe S, Bergamaschi L, Mazzola GC, Corrao G, Orecchia R, Jereczek Fossa BA and Alterio D  
Cancers 2023, 15(23), 10.3390/cancers15235545

**15. Association between Contrast-Enhanced Computed Tomography Radiomic Features, Genomic Alterations and Prognosis in Advanced Lung Adenocarcinoma Patients**

Rinaldi L, Guerini Rocco E, Spitaleri G, Raimondi S, Attili I, Ranghiero A, Cammarata G, Minotti M, o Presti G, De Piano F, Bellerba F, Funicelli G, Volpe S, Mora S, Fodor C, Rampinelli C, Barberis M, De Marinis F, Jereczek-Fossa BA, Orecchia R  
Cancers 2023, 15(18), 4553; <https://doi.org/10.3390/cancers15184553>.

**16. Hypofractionated proton therapy for benign tumors of the Central Nervous System: a systematic review of the literature**

Piperno G, Ferrari A, Volpe S\*, Cattani F, Zaffaroni M, Comi S, Pansini F, Bergamaschi L, Mazzola GC, Ceci F, Colandrea M, Petralia G, Orecchia R, Alterio D, Jereczek-Fossa BA  
Crit Rev Oncol Hematol 2023 Sep 6;191:104114. doi: 10.1016/j.critrevonc.2023.104114.

**17. Patients' needs in Proton Therapy: a survey among ten European Facilities**

Mazzola GC, Bergamaschi L, Pedone C, Vincini MG, Pepa M, Zaffaroni M, Volpe S, Rombi B, Doyen J, Fossati P, Haustermans K, Höyer M, Lagendijk JA, Matute R, Orlandi E, Rylander H, Troost E, Orecchia R, Alterio D, Jereczek-Fossa BA  
Clin Transl Radiat Oncol, 2023. November 2023, 100670, vol 43, doi: 10.1016/j.ctro.2023.100670

**18. Reirradiation of head and neck squamous cell carcinomas: a pragmatic approach, part I: prognostic factors and indication to treatment**

Alterio D, Zaffaroni M, Bossi P, Dionisi F, Elicin O, Falzone A, Ferrari A, Jereczek-Fossa BA, Sanguineti G, Szturz P, Volpe S, Scricciolo M.  
Radiol Med, <https://doi.org/10.1007/s11547-023-01713-7>

**19. Reirradiation of head and neck squamous cell carcinomas: a pragmatic approach, part II: radiation technique and fractionations**

Alterio D, Zaffaroni M, Bossi P, Dionisi F, Elicin O, Falzone A, Ferrari A, Jereczek-Fossa BA, Sanguineti G, Szturz P, Volpe S, Scricciolo M.  
Radiol Med, 2023 Aug;128(8):1007-1021. doi: 10.1007/s11547-023-01671-0.

**20. Blood- and Imaging-Derived Biomarkers for Oncological Outcome Modelling in Oropharyngeal Cancer: Exploring the Low-Hanging Fruit**

Volpe S, Gaeta A, Colombo F, Zaffaroni M, Mastroleo F, Vincini MG, Pepa M, Isaksson LJ, Turturici I, Marvaso G, Ferrari A, Cammarata G, Santamaria R, Franzetti J, Raimondi S, Botta F, Ansarin M, Gandini S, Cremonesi M, Orecchia R, Alterio D, Jereczek-Fossa BA  
Cancers, 2023 Mar 28;15(7):2022. doi: 10.3390/cancers15072022.

**21. Quo Vadis Radiomics? Bibliometric analysis of 10-year Radiomics journey**

Volpe S, Mastroleo F, Krengli M, Jereczek-Fossa BA  
European Radiology 2023 Apr 18;1-10. doi: 10.1007/s00330-023-09645-6. Online ahead of print.

**22. Can Ki-67 predict radiotherapy response in neuroendocrine tumors? Retrospective analysis of a monocentric series of patient**

Zerini D, Rotondi M, **Volpe S**, Pisa E, Frigo E, Pedone C, Fospergher M, Bagnardi V, Frassoni S, Fodor CI, Spada F, Fazio N, Alterio D, Jereczek-Fossa BA  
Tumori Journal 2023, Accepted, Ahead of print

**23. The role of radiomics in tongue cancer: a new tool for prognosis prediction**

Mossinelli C, Tagliabue M, Ruju F, Cammarata G, **Volpe S\***, Raimondi S, Zaffaroni M, Isaksson LJ, Garibaldi C, Cremonesi M, Corso F, Gaeta A, Emili I, Zorzi S, Alterio D, Marvaso G, Pepa M, De Fiori E, Maffini F, Preda L, Benazzo M, Jereczek-Fossa BA, Ansarin M  
Head and Neck 2023, 45(4), 849-861; doi: 10.1002/hed.27299

**24. Comparison of automated segmentation techniques for magnetic resonance images of the prostate**

Isaksson LJ, Pepa M, Summers P, Zaffaroni M, Vincini MG, Corrao G, Mazzola GC, Rotondi M, Lo Presti G, Raimondi S, Gandini S, **Volpe S**, Haron Z, Alessi S, Pricolo P, Mistretta FA, Luzzago S, Cattani F, Musi G, De Cobelli O, Cremonesi M, Orecchia R, Marvaso G, Petralia G, Jereczek-Fossa BA  
BMC Med Imaging 2023, 23(1):32; doi: 10.1186/s12880-023-00974-y.

**25. Prognostic Impact of Sarcopenia's Occurrence During Radiotherapy in Oropharyngeal Cancer Patients**

Ferrante M, Bergamaschi L, Marvaso G, Zaffaroni M, Vincini MG, D'Ecclesiis O, **Volpe S**, Ferrari A, Zorzi SF, Cossu Rocca M, Sabbatini A, Cannillo G, Zagallo E, Starzynka A, Ansarin M, Cattani F, Gandini S, Orecchia R, Alterio D, Jereczek-Fossa BA  
Cancers 2023, 15(3), 723; <https://doi.org/10.3390/cancers15030723>

**26. Application of the nnU-Net for automatic segmentation of lung lesions on CT images, and implication on radiomic models**

Ferrante M, Rinaldi L, Botta F, Hu X, Dolp A, Minotti M, De Piano F, Funicelli G, **Volpe S**, Bellerba F, De Marco P, Raimondi S, Rizzo S, Shi K, Cremonesi M, Jereczek-Fossa BA, Spaggiari L, de Marinis F, Orecchia R, Origgi D  
J Clin Med. 2022 Dec 9;11(24):7334. doi: 10.3390/jcm11247334.

**27. Brain metastases from NSCLC treated with stereotactic radiotherapy: prediction mismatch between two different radiomic platforms**

Carloni G, Garibaldi C, Marvaso G, **Volpe S**, Zaffaroni M, Pepa M, Isaksson LJ, Colombo F, Durante S, Lo Presti G, Raimondi S, Spaggiari L, de Marinis F, Piperno G, Vigorito S, Gandini S, Cremonesi M, Positano V, Jereczek-Fossa BA  
Radiother Oncol 2022 Nov 24; 178:109424, doi: 10.1016/j.radonc.2022.11.013.

**28. Virtual and Augmented Reality as a Novel Opportunity to Unleash the Power of Radiotherapy in the Digital Era: A Scoping Review**

Marvaso G, Pepa M, **Volpe S**, Mastroleo F, Zaffaroni M, Vincini MG, Corrao G, Bergamaschi L, Mazzocco K, Pravettoni G, Orecchia R, Jereczek-Fossa BA  
Appl. Sci. 2022, 12(22), 11308; <https://doi.org/10.3390/app122211308>

**29. Hypofractionated proton therapy for non-small cell lung cancer: Ready for prime time? A systematic review and meta-analysis**

**Volpe S**, Piperno G, Colombo F, Biffi A, Comi S, Mastroleo F, Camarda AM, Casbarra A, Cattani F, Corrao G, De Marinis F, Spaggiari L, Guckenberger M, Orecchia R, Alterio D, Jereczek-Fossa BA  
Cancer Treat Rev 2022 Nov; 110:102464. doi: 10.1016/j.ctrv.2022.102464.

**30. Impact of image filtering and assessment of volume-confounding effects on CT radiomic features and derived survival models in NSCLC**

**Volpe S**, Isaksson LJ, Zaffaroni M, Pepa M, Raimondi S, Botta F, Lo Presti G, Vincini MG, Rampinelli C, Cremonesi M, Cremonesi M, de Marinis F, Spaggiari L, Gandini S, Guckenberger M, Orecchia R, Jereczek-Fossa BA  
Journal of Translational Lung Cancer Research. doi: 10.21037/tlcr-22-248

**31. Upfront transoral robotic surgery (TORS) versus intensity-modulated radiation therapy (IMRT) in HPV-positive oropharyngeal cancer: real-world data from a tertiary comprehensive cancer center**

Zorzi S, Agostini G, Chu F, Tagliabue M, Pietrobon G, Corrao G, **Volpe S**, Marvaso G, Colombo F, Cossu Rocca M, Gandini S, Gaeta A, Ruju F, Alterio D, Ansarin M  
Acta Oncol Italica. 2022 10.14639/0392-100X-N2144

**32. Intensity-Modulated Radiotherapy (IMRT) following Conservative Surgery of the Supraglottic Region: Impact on Functional Outcomes**

Alterio D, Marani S, Zurlo V, Zorzi SF, Ferrari AM, **Volpe S**, Bandi F, Vigorito S, Vincini MG, Gandini S, Gaeta A, Fodor CI, Casbarra A, Zaffaroni M, Stazynska A, Belgioia L, Ansarin M, Aristei C, Jereczek-Fossa BA  
Cancers. 2022, 14(11), 2600; <https://doi.org/10.3390/cancers14112600>

**33. Stereotactic Radiotherapy Ablation and Atrial Fibrillation: technical issues and clinical expectations derived from a systematic review**

Franzetti J, Volpe S\*, Catto V, Conte E, Piccolo C, Pepa M, Piperno G, Camarda AM, Cattani F, Andreini D, Tondo C, Jereczek-Fossa BA, Carbonechchio C  
Front Cardiovasc Med and Card Rhytmol. 2022. doi: 10.3389/fcvm.2022.849201

**34. Hypofractionated proton therapy in breast cancer: where are we? A critical review of the literature**

Alterio D, La Rocca E, Volpe S\*, Camarda AM, Casbarra A, Russel-Edu W, Zerella MA, Orecchia R, Galimberti V, Veronesi P, Leonardi MC, Jereczek-Fossa BA  
Breast Cancer Res Treat. 2022 Jan 13. doi: 10.1007/s10549-022-06516-4.

**35. Recent Advances in the Management of Hormone-Sensitive Oligometastatic Prostate Cancer**

Volpe S, Marvaso G, Pepa M, Zaffaroni M, Corrao G, Augugliaro M, Nolé F, De Cobelli O, Jereczek-Fossa BA  
Cancer Manag Res. 2022 Jan 6;14:89-101. doi: 10.2147/CMAR.S321136

**36. Correlation between radiological and biological features and clinical outcomes in early prostate cancer: an exploratory subgroup analysis**

Corrao G, Marvaso M, Zaffaroni M, Volpe S, Augugliaro M, Fodor Cl, Zerini D, Vingiani A, Mistretta FA, Luzzago S, Alessi S, Pricolo P, Musi G, De Cobelli O, Renne G, Manzoni M, Petralia G, Orecchia R, Jereczek-Fossa BA  
Neoplasma. 2022 Jan 12;210622N828. doi: 10.4149/neo\_2021\_210622N828.

**37. Indication to postoperative radiotherapy for oral cavity squamous cell carcinoma: what's new in the Depth of Infiltration (DOI) era?**

Alterio D, De Berardinis R, Augugliaro M, D'Urso P, Volpe S, Maffini F, Bruschini R, Marvaso G, Riccio S, Tagliabue M, Turturici I, Farneti A, Calabrese L, Starzynska A, Ferrari A, Zaffaroni M, Jereczek-Fossa BA, Sanguineti G, Ansarin M  
Br J Radiol. 2021 Dec 17;20210705. doi: 10.1259/bjr.20210705.

**38. Machine Learning for Head and Neck Cancer: A Safe Bet? —A Clinically Oriented Systematic Review for the Radiation Oncologist**

Volpe S, Pepa M, Zaffaroni M, Bellerba F, Santamaria R, Marvaso G, Isaksson LJ, Gandini S, Starzyńska A, Leonardi MC, Orecchia R, Alterio D, Jereczek-Fossa BA  
Front. Oncol., 18 November 2021 | <https://doi.org/10.3389/fonc.2021.772663>

**39. Mixed-Beam Approach for High-Risk Prostate Cancer Carbon-Ion Boost Followed by Photon Intensity-Modulated Radiotherapy: Preliminary Results of Phase II Trial AIRC-IG-14300**

Marvaso G, Vischioni B, Pepa M, Zaffaroni M, Volpe S\*, Patti F, Bellerba F, Gandini S, Comi S, Corrao G, Zerini D, Augugliaro M, Fodor C, Russo S, Molinelli S, Ciocca M, Ricotti R, Valvo F, Giandini T, Avuzzi B, Valdagni R, De Cobelli O, Cattani F, Orlandi E, Jereczek-Fossa BA, Orecchia R.  
Front. Oncol., 17 November 2021 | <https://doi.org/10.3389/fonc.2021.778729>

**40. The Impact of Post-Operative Radiotherapy in Early Stage (pT1-pT2N0M0) Oral Tongue Squamous Cell Carcinoma in Era of DOI**

Alterio D, D'Urso P, Volpe S\*, Tagliabue M, Berardinis R, Augugliaro M, Gandini S, Maffini FA, Bruschini R, Turturici I, Riccio S, Calabrese L, Farneti A, Starzynska A, Ferrari AM, Jereczek-Fossa BA, Ansarin M, Sanguineti G  
Cancers (Basel). 2021 Sep 28;13(19):4851. doi: 10.3390/cancers13194851. PMID: 34638335

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MD Anderson Head and Neck Cancer Symptom Working Group

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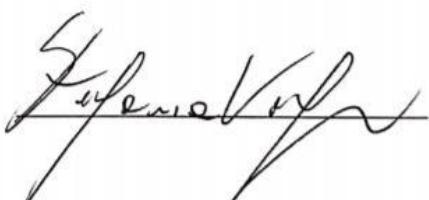
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In compliance with the GDPR and the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.

Milan, Thursday, August 21, 2025

Yours faithfully,

Stefania Volpe MD, PhD



Milano, 20/08/2025

Gentili Colleghi,

Mi chiamo Stefania Volpe, e sono un Medico Specialista in Radioterapia Oncologica presso l'Istituto Europeo di Oncologia IRCCS di Milano, e Ricercatore presso l'Università degli Studi di Milano. Vi scrivo per sottoporvi la mia candidatura come Consigliere del Gruppo di Studio Polmone per il prossimo biennio.

Il mio interesse per la patologia polmonare nasce all'inizio del mio dottorato in System Medicine e Computational Biology, nel corso del quale mi sono concentrata sull'imaging quantitativo nel carcinoma polmonare non a piccole cellule in stadio iniziale.

Da questa esperienza, che mi ha consentito di approfondire aspetti metodologici delle analisi omiche, è derivato lo studio MONDRIAN, che coordino dal 2023 in qualità di Principal Investigator. Il progetto, finanziato da AIRC nell'ambito del grant Next Generation Physician Scientist, mira a integrare dati clinici, radiomici, genomici e proteomici, per lo sviluppo di modelli predittivi di risposta alla SBRT. L'obiettivo è raggiungere una maggiore personalizzazione dei trattamenti radioterapici in questo setting, individuando i migliori candidati a SBRT e prevedendo, in prospettiva, anche l'associazione con terapia sistemica nei casi ad alto rischio.

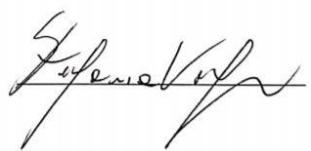
Da alcuni anni, quindi, il mio interesse clinico e di ricerca si è sempre più orientato verso la patologia polmonare, non limitandosi allo stadio iniziale, ma estendendosi anche alla patologia localmente avanzata e metastatica. In questa fase penso quindi sia importante per me provare a portare la mia esperienza- oltre al desiderio di collaborazione e scambio- in un ambito più ampio, quale quello del Gruppo di Studio AIRO.

Credo sia infatti necessario continuare a costruire un confronto a livello nazionale tra i Radio-Oncologi dedicati alle patologie polmonari, promuovendo la ricerca e la qualità delle cure, e divulgando il ruolo della nostra disciplina tra i diversi professionisti che prendono parte ai gruppi oncologici multidisciplinari.

Se scelta, le mie proposte verterebbero principalmente nell'ambito del tumore polmonare in I e II stadio. Nonostante la SBRT rappresenti una tecnica ampiamente diffusa, infatti, esistono notevoli variazioni in termini di schemi di prescrizione e delivery (quotidiano o a giorni alterni), come ben evidenziato da un recente lavoro di Alfaifi et al. (IJROBP, 2025). Oltre a fornire informazioni sullo stato dell'arte in Italia, un lavoro di questo tipo favorirebbe la generazione condivisa di evidenza e la creazione di un consensus, con l'idea di uniformare quanto possibile i trattamenti sul territorio, definendo un algoritmo di trattamento basato su parametri noti e riproducibili. Inoltre, sono convinta che questo confronto rappresenti la base essenziale per la promozione di futuri studi multicentrici, retrospettivi e soprattutto prospettici nell'ambito della SBRT polmonare. In particolare, penso potrebbe essere interessante valutare gli outcome dei pazienti trattati con diversi frazionamenti e modalità di irradiazione, considerando- e potenzialmente validando- marcatori prognostici facilmente disponibili ma ancora non sostenuti da dati sufficientemente solidi (es: NLR, PLR). Altre possibili proposte potrebbero riguardare lo sviluppo di progetti che comprendano, ad esempio, l'integrazione dell'AI nel workflow della radioterapia per i tumori polmonari, anche in collaborazione con altre società nazionali e/o gruppi di esperti.

Se eletta, mi impegno a mettere a disposizione la mia esperienza clinica e di ricerca per favorire la nascita e lo sviluppo di iniziative condivise, con l'obiettivo di promuovere la collaborazione tra i centri, l'uniformità dei percorsi di cura, e, non ultima, la valorizzazione del contributo della radioterapia polmonare nei team oncologici multidisciplinari.

Con stima,

A handwritten signature in black ink, appearing to read "Stefano Vellini".