

Curriculum vitae

PERSONAL INFORMATION

Maria Chiara Brunese



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C.F. BRNMCH98H51F839E

Date of birth: 11/06/1998, Naples (Italy)

WORK EXPERIENCE

Nov 2022-Present

Resident in Radiology
University of Molise, 86100, Campobasso, (Italy)
Cardarelli Hospital, ASReM, Campobasso

Nov 2022-Present

Co-P.I. International Partnership between University of Molise and University of Gothenburg for the study of Therapeutic Outcomes with Surgical and Medical Management of Primary Aldosteronism.

March 2021–Jun 2022

Internship for master Thesis
Pineta Grande Hospital, Castel Volturno (CE)
Department of General Surgery HPB Unit: Presence and activities in the operating room and Intra-Operative Ultrasound
Department of Radiology
Thesis on precision medicine: **Early Diagnosis of Liver Metastases from Colorectal Cancer through CT Radiomics and Formal Methods: A Pilot Study**

2019–2020

Internship
Cardarelli hospital, Campobasso, Italy
U.O.C. Internal Medicine, Dir. Prof. Maurizio Gasperi
Medical student. Reception, triage, diagnostic and therapeutic approach supported by tutor especially dedicated to ECG and Echocardiographic exams.

2020–2021

Internship
Cardarelli Hospital, Campobasso, Dep General Surgery, Dir G.Cecere
Medical student. Presence and activities in the operating room and in day surgery procedures.
Experience in Intra-operative US

EDUCATION AND TRAINING

1 Oct 2016–26 Jun 2022 Medicine and Surgery Graduation vote: 110/110 cum Laude
University of Molise, 86100, Campobasso, (Italy)

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Inglese	B2	B2	B2	B2	B2
FCE British Council					

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

Job-related skills Healthcare, Medicine, Vascular Eco-color-Doppler, Echocardiography, Intra-operative US, FAST Ultrasound, Abdominal Ultrasound, Radiomics and Artificial Intelligence tools.

ADDITIONAL INFORMATION

Honours and awards Best Oral Communication at the Aitim Congress 2021
Early Diagnosis of Liver Metastases from Colorectal Cancer through CT Radiomics and Formal Methods: A Pilot Study

Best Oral Communication at Regional Gropu SIRM, L'Aquila 2022
Early Diagnosis of Liver Metastases from Colorectal Cancer through CT Radiomics and Formal Methods: A Pilot Study

Curriculum vitae

Corsi Oct 2022- Attended to SIRM simulator practical course of Interventional Radiology in extravascular procedures.

Nov 2022 - Attended to SIUMB theoretic course of Ultrasound

Jan 2023- Attended to The Italian Chapter of Endovascular Resuscitation: Trauma and Beyond

Scientific Societies Affiliation

SIRM (Italian Society of Medical Radiology)
SIUMB (Italian Society of Ultrasound Medicine)
ANAAO (National Association of Medical Doctors)

Journal Publications

1. Mercaldo, F., **Brunese, M. C.**, Merolla, F., Rocca, A., Zappia, M., & Santone, A. (2022). Prostate Gleason Score Detection by Calibrated Machine Learning Classification through Radiomic Features. *Applied Sciences*, 12(23), 11900.
2. Avella P, Vaschetti R, Cappuccio M, Gambale F, DE Meis L, Rafanelli F, **Brunese M.C.**, Guerra G, Scacchi A, Rocca A. The role of liver surgery in simultaneous synchronous colorectal liver metastases and colorectal cancer resections: a literature review of 1730 patients underwent open and minimally invasive surgery. *Minerva Surg.* 2022 Dec;77(6):582-590. doi: 10.23736/S2724-5691.22.09716-7. PMID: 36409039.
3. Granata V, Fusco R, De Muzio F, Cutolo C, Mattace Raso M, Gabelloni M, Avallone A, Ottaiano A, Tatangelo F, **Brunese M.C.**, Miele V, Izzo F, Petrillo A. Radiomics and Machine Learning Analysis Based on Magnetic Resonance Imaging in the Assessment of Colorectal Liver Metastases Growth Pattern. *Diagnostics (Basel)*. 2022 Apr 29;12(5):1115. doi: 10.3390/diagnostics12051115. PMID: 35626271; PMCID: PMC9140199.
4. Granata V, Fusco R, De Muzio F, Cutolo C, Setola SV, Grassi R, Grassi F, Ottaiano A, Nasti G, Tatangelo F, Pilone V, Miele V, **Brunese M.C.**, Izzo F, Petrillo A. Radiomics textural features by MR imaging to assess clinical outcomes following liver resection in colorectal liver metastases. *Radiol Med.* 2022 May;127(5):461-470. doi: 10.1007/s11547-022-01477-6. Epub 2022 Mar 26. PMID: 35347583.
5. Bruno F, Granata V, Cobianchi Bellisari F, Sgalambro F, Tommasino E, Palumbo P, Arrigoni F, Cozzi D, Grassi F, **Brunese M.C.**, Pradella S, di S Stefano MLM, Cutolo C, Di Cesare E, Splendiani A, Giovagnoni A, Miele V, Grassi R, Masciocchi C, Barile A. Advanced Magnetic Resonance Imaging (MRI) Techniques: Technical Principles and Applications in Nanomedicine. *Cancers (Basel)*. 2022 Mar 23;14(7):1626. doi: 10.3390/cancers14071626. PMID: 35406399; PMCID: PMC8997011.
6. Buondonno A, Avella P, Cappuccio M, Scacchi A, Vaschetti R, Di Marzo G, Maida P, Luciani C, Amato B, **Brunese M.C.**, Esposito D, Selvaggi L, Guerra G, Rocca A. A Hub and Spoke Learning Program in Bariatric Surgery in a Small Region of Italy. *Front Surg.* 2022 Mar 24;9:855527. doi: 10.3389/fsurg.2022.855527. PMID: 35402486; PMCID: PMC8987280.
7. Granata V, Fusco R, De Muzio F, Cutolo C, Setola SV, Dell'Aversana F, Ottaiano A, Nasti G, Grassi R, Pilone V, Miele V, **Brunese M.C.**, Tatangelo F, Izzo F, Petrillo A. EOB-MR Based Radiomics Analysis to Assess Clinical Outcomes following Liver Resection in Colorectal Liver Metastases. *Cancers (Basel)*. 2022 Feb 27;14(5):1239. doi: 10.3390/cancers14051239. PMID: 35267544; PMCID: PMC8909637.

8. Moschetta M, Sardaro A, Nitti A, Telegrafo M, Maggialelli N, Scardapane A, **Brunese M.C.**, Lavelli V, Ferrari C. Ultrasound evaluation of ductal carcinoma in situ of the breast. *J Ultrasound*. 2022 Mar;25(1):41-45. doi: 10.1007/s40477-020-00551-x. Epub 2021 Jan 6. PMID: 33409862; PMCID: PMC8964906.
9. Komici K, Cappuccio M, Scacchi A, Vaschetti R, Delli Carpini G, Picerno V, Avella P, **Brunese M.C.**, Rengo G, Guerra G, Bencivenga L. The Prevalence and the Impact of Frailty in Hepato-Biliary Pancreatic Cancers: A Systematic Review and Meta-Analysis. *J Clin Med*. 2022 Feb 20;11(4):1116. doi: 10.3390/jcm11041116. PMID: 35207389; PMCID: PMC8878959.
10. Palumbo P, Cannizzaro E, Bracci A, Bruno F, Arrigoni F, Splendiani A, Danti G, Cozzi D, Pradella S, Grassi F, Grassi R, Dell'Aversana F, **Brunese M.C.**, Cutolo C, Ravo L, Fusco R, Galdiero R, Granata V, Masciocchi C, Di Cesare E. Thoracic non-traumatic cardiovascular diseases: current perspective and multi-detectors Computed Tomography protocols optimization in the emergency setting. *Eur Rev Med Pharmacol Sci*. 2022 May;26(10):3621-3641. doi: 10.26355/eurrev_202205_28858. PMID: 35647844.
11. Bicci E, Grazzini G, Cozzi D, Danti G, Pradella S, Palumbo P, Bruno F, Grassi F, Dell' Aversana F, De Muzio F, **Brunese M.C.**, Cutolo C, Fusco R, Granata V, Giovagnoni A, Miele V. Non-traumatic non-cardiovascular thoracic emergencies: role of imaging. *Eur Rev Med Pharmacol Sci*. 2022 May;26(9):3249-3260. doi: 10.26355/eurrev_202205_28743. PMID: 35587076.
12. De Muzio F, Cutolo C, Granata V, Fusco R, Ravo L, Maggialelli N, **Brunese M.C.**, Grassi R, Grassi F, Bruno F, Palumbo P, Palatresi D, Cozzi D, Danti G. CT study protocol optimization in acute non-traumatic abdominal settings. *Eur Rev Med Pharmacol Sci*. 2022 Feb;26(3):860-878. doi: 10.26355/eurrev_202202_27995. PMID: 35179752.
13. Rocca A, **Brunese M.C.**, Santone A, Avella P, Bianco P, Scacchi A, Scaglione M, Bellifemine F, Danzi R, Varriano G, Vallone G, Calise F, Brunese L. Early Diagnosis of Liver Metastases from Colorectal Cancer through CT Radiomics and Formal Methods: A Pilot Study. *J Clin Med*. 2021 Dec 22;11(1):31. doi: 10.3390/jcm11010031. PMID: 35011771; PMCID: PMC8745238.
14. Brunese L, **Brunese M.C.**, Carbone M, Ciccone V, Mercaldo F, Santone A. Automatic PI-RADS assignment by means of formal methods. *Radiol Med*. 2022 Jan;127(1):83-89. doi: 10.1007/s11547-021-01431-y. Epub 2021 Nov 25. PMID: 34822102.
15. Giuliani A, Avella P, Segreto AL, Izzo ML, Buondonno A, Coluzzi M, Cappuccio M, **Brunese M.C.**, Vaschetti R, Scacchi A, Guerra G, Amato B, Calise F, Rocca A. Postoperative Outcomes Analysis After Pancreatic Duct Occlusion: A Safe Option to Treat the Pancreatic Stump After Pancreaticoduodenectomy in Low-Volume Centers. *Front Surg*. 2021 Dec 21;8:804675. doi: 10.3389/fsurg.2021.804675. PMID: 34993230; PMCID: PMC8725883.
16. Granata V, Grassi R, Fusco R, Belli A, Cutolo C, Pradella S, Grazzini G, La Porta M, **Brunese M.C.**, De Muzio F, Ottaiano A, Avallone A, Izzo F, Petrillo A. Diagnostic evaluation and ablation treatments assessment in hepatocellular carcinoma. *Infect Agent Cancer*. 2021 Jul 19;16(1):53. doi: 10.1186/s13027-021-00393-0. PMID: 34281580; PMCID: PMC8287696.
17. Santone A, **Brunese M.C.**, Donnarumma F, Guerriero P, Mercaldo F, Reginelli A, Miele V, Giovagnoni A, Brunese L. Radiomic features for prostate cancer grade detection through formal verification. *Radiol Med*. 2021 May;126(5):688-697. doi: 10.1007/s11547-020-01314-8. Epub 2021 Jan 4. PMID: 33394366.
18. Rocca A, **Brunese M.C.**, Cappuccio M, Scacchi A, Martucci G, Buondonno A, Perrotta FM, Quarto G, Avella P, Amato B. Impact of Physical Activity on Disability Risk in Elderly Patients Hospitalized for Mild Acute Diverticulitis and Diverticular Bleeding Undergone Conservative Management. *Medicina (Kaunas)*. 2021 Apr 8;57(4):360. doi: 10.3390/medicina57040360. PMID: 33917780; PMCID: PMC8068129.
19. Granata V, Fusco R, Bicchierai G, Cozzi D, Grazzini G, Danti G, De Muzio F, Maggialelli N, Smorchkova O, D'Elia M, **Brunese M.C.**, Grassi R, Giacobbe G, Bruno F, Palumbo P, Lacasella GV, Brunese L, Grassi R, Miele V, Barile A. Diagnostic protocols in oncology: workup and treatment planning. Part 1: the optimization of CT protocol. *Eur Rev Med Pharmacol Sci*. 2021 Nov;25(22):6972-6994. doi: 10.26355/eurrev_202111_27246. PMID: 34859859.

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- 20.** Granata V, Bicchierai G, Fusco R, Cozzi D, Grazzini G, Danti G, De Muzio F, Maggialetti N, Smorchkova O, D'Elia M, **Brunese M.C.**, Grassi R, Giacobbe G, Bruno F, Palumbo P, Grassi F, Brunese L, Grassi R, Miele V, Barile A. Diagnostic protocols in oncology: workup and treatment planning. Part 2: Abbreviated MR protocol. *Eur Rev Med Pharmacol Sci.* 2021 Nov;25(21):6499-6528. doi: 10.26355/eurrev_202111_27094. PMID: 34787854.

Scopus: 131 Citations. H-index: 7.

Campobasso lì, 23/01/2022

In Fede

Maria Chiara Brunese