

INFORMAZIONI PERSONALI

Damiano Caruso



Sesso M

Data di nascita 22/10/1985

Nazionalità Italiana

TITOLO DI STUDIO

Medico Chirurgo Specialista in Radiodiagnostica

ESPERIENZA
PROFESSIONALE

2008	Internato ai fini di Tesi di Laurea presso il Dipartimento di Scienze Radiologiche, Oncologiche e Anatomo-Patologiche, "Sapienza" Università di Roma, Prof. Roberto Passariello, Prof. Andrea Laghi.
2011-2016	Medico in Formazione Specialistica presso il Dipartimento di Scienze Radiologiche, Oncologiche e Anatomo-Patologiche, "Sapienza" Università di Roma, Direttore Prof. Roberto Passariello.
2011-2016	Medico in Formazione Specialistica presso la UOC di Radiologia, Centro di Alta Diagnostica per Immagini, ICOT, "Sapienza" Università di Roma, sede di Latina, Direttore Prof. Andrea Laghi.
2015-2016	Research Fellow in "Cardiovascular Imaging", Medical University of South Carolina (MUSC), Charleston, SC, USA. Direttore Prof. U. Joseph Schoepf.
2016-2018	Medico Radiologo presso la UOC di Radiologia, Centro di Alta Diagnostica per Immagini, ICOT, "Sapienza" Università di Roma, sede di Latina, Direttore Prof. Andrea Laghi.
2018-presente	Medico Radiologo presso la UOC di Radiologia, Direttore Prof. Andrea Laghi, Azienda Ospedaliero-Universitaria Sant'Andrea, "Sapienza" Università di Roma.
2022-presente	Ricercatore di Tipo B, presso il Dipartimento di Scienze Medico-Chirurgiche e Medicina Traslazionale, "Sapienza" Università di Roma.
2022-presente	Dirigente Medico presso la UOC di Radiologia, Direttore Prof. Andrea Laghi, Azienda Ospedaliero-Universitaria Sant'Andrea, "Sapienza" Università di Roma.
2025-presente	Professore Associato di Diagnostica per Immagini MEDS 22/A presso il Dipartimento di Scienze Medico-Chirurgiche e Medicina Traslazionale - Facoltà di Medicina e Psicologia, Sapienza Università di Roma.

ISTRUZIONE E FORMAZIONE

2010	Laurea in Medicina e Chirurgia con voti 110/110 e lode presso "Sapienza" Università di Roma.
2011	Abilitazione professionale presso "Sapienza" Università di Roma e successiva iscrizione all'Albo dei Medici Chirurghi e Odontoiatri della provincia di Roma
2016	Diploma Scuola di Specializzazione in Radiodiagnostica con voti 70/70 e lode presso l'Università "Sapienza" di Roma.
2019-presente	Abilitazione Scientifica Nazionale, Professore di Seconda Fascia (ASN 2018-2020, I quadrimestre, Settore 06,I1)
2020-presente	Fellow ESGAR - European Society of Gastrointestinal and Abdominal Radiology
2021	Dottorato di ricerca Medicina Sperimentale presso Dipartimento di Medicina Clinica e Molecolare, "Sapienza" Università di Roma.
2023	Abilitazione Scientifica Nazionale, Professore di Prima Fascia (ASN 2021-2023, VI quadrimestre, Settore 06,I1), Validità: Dal 21/11/2023 al 21/11/2034.

COMPETENZE PERSONALI

Lingua madre Italiano, Inglese

Competenze comunicative ▪ Ottime capacità comunicative in italiano e in inglese maturate grazie alle molteplici comunicazioni orali a congressi italiani e internazionali.

Competenze organizzative e gestionali ▪ Ottime capacità organizzative ottenute come segreteria scientifica di molteplici corsi e congressi. Direttore scientifico della Spectral CT Academy. Nel 2024 Chairperson della Scientific Committee – Oncology, del Congresso Europeo di Radiologia.

Competenza digitale

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Avanzato	Avanzato	Avanzato	Avanzato	Avanzato

Livelli: Utente base - Utente intermedio - Utente avanzato

Sostituire con il nome del(i) certificato(i) TIC

- Ottima padronanza degli strumenti della suite Microsoft OFFICE (Word, Excel, Powerpoint)
- Ottima padronanza di programmi di statistica (SPSS, MedCalc)
- Ottima padronanza del sistema operativo mac OSX

Patente di guida A, B, Nautica

ULTERIORI INFORMAZIONI

Pubblicazioni

- 2011 The optimal contrast media policy in CT of the liver. Part I: Technical notes.
Rengo M, Bellini D, De Cecco CN, Osimani M, Vecchietti F, **Caruso D**, Maceroni MM, Lucchesi P, Iafrate F, Paolantonio P, Ferrari R, Laghi A.
Acta Radiol. 2011 Jun 1;52(5):467-72.
- 2011 The optimal contrast media policy in CT of the liver. Part II: Clinical protocols.
Rengo M, Bellini D, De Cecco CN, Osimani M, Vecchietti F, **Caruso D**, Maceroni MM, Lucchesi P, Iafrate F, Palombo E, Paolantonio P, Ferrari R, Laghi A.
Acta Radiol. 2011 Jun 1;52(5):473-80.
- 2012 High concentration (400 mgI/mL) versus low concentration (320 mgI/mL) iodinated contrast media in multi detector computed tomography of the liver: a randomized, single centre, non-inferiority study.
Rengo M, **Caruso D**, De Cecco CN, Lucchesi P, Bellini D, Maceroni MM, Ferrari R, Paolantonio P, Iafrate F, Carbone I, Vecchietti F, Laghi A.
Eur J Radiol. 2012 Nov;81(11):3096-101
- 2015 Aneurysm of Vieussens' arterial ring in a patient studied with coronary computed tomography.
De Cecco CN, Rengo M, Muscogiuri G, **Caruso D**, Bellini D, Laghi A. *J Cardiovasc Med (Hagerstown). 2015 Jan;16 Suppl 2:S84-5*
- 2016 Vascular imaging before transcatheter aortic valve replacement (TAVR): Why and how?
D. Caruso, MD; R.D. Rosenberg, MD; C.N. De Cecco, MD, PhD; S. Mangold, MD; J.L. Wichmann, MD; A. Varga-Szemes, MD, PhD; D.H. Steinberg, MD; A.Laghi, MD; U.J. Schoepf, MD.
Curr Cardiol Rep. 2016 Feb;18(2):14.
- 2016 Optimization of Window Settings for Virtual Monoenergetic Imaging in Dual-Energy CT of the Liver: A Multi-Reader Evaluation of Standard Monoenergetic and Advanced Imaged-Based Monoenergetic Datasets
De Cecco CN, **Caruso D**, Schoepf UJ, Wichmann JL, Ter Louw JR, Perry JD, Picard MM, Schaefer AR, Hardie AD.
Eur J Radiol. 2016 Apr;85(4):695-9
- 2016 Performance of diffusion-weighted imaging, perfusion imaging, and texture analysis in predicting tumoral response to neoadjuvant chemoradiotherapy in rectal cancer patients studied with 3T MR: initial experience.
De Cecco CN, Ciolina M, **Caruso D**, Rengo M, Ganeshan B, Meinel FG, Musio D, De Felice F, Tombolini V, Laghi A.
Abdom Radiol (NY). 2016 Sep;41(9):1728-35
- 2016 Coronary CT angiography derived morphological and functional quantitative plaque markers correlated with invasive fractional flow reserve for detecting hemodynamically significant stenosis.
Tesche C, De Cecco CN, **Caruso D**, Baumann S, Renker M, Mangold S, Dyer KT, Varga-Szemes A, Baquet M, Jochheim D, Ebersberger U, Bayer RR 2nd, Hoffmann E,

- Steinberg DH, Schoepf UJ.
J Cardiovasc Comput Tomogr. 2016 May-Jun;10(3):199-206
- 2016 A noise-optimized virtual monochromatic reconstruction algorithm improves stent visualization and diagnostic accuracy for detection of in-stent re-stenosis in lower extremity run-off CT angiography.
Mangold S, De Cecco CN, Schoepf UJ, Yamada RT, Varga-Szemes A, Stubenrauch AC, **Caruso D**, Fuller SR, Vogl TJ, Nikolaou K, Todoran TM, Wichmann JL.
Eur Radiol. 2016 Dec;26(12):4380-4389
- 2016 Automated tube voltage selection for radiation dose and contrast medium reduction at coronary CT angiography using 3rd generation dual-source CT.
Mangold S, Wichmann JL, Schoepf UJ, Poole ZB, Canstein C, Varga-Szemes A, **Caruso D**, Bamberg F, Nikolaou K, De Cecco CN.
Eur J Radiol. 2017 Jan;86:276-283
- 2016 Virtual unenhanced imaging of the liver with third-generation dual-source dual-energy CT and advanced modeled iterative reconstruction.
De Cecco CN, Muscogiuri G, Schoepf UJ, **Caruso D**, Wichmann JL, Cannaò PM, Canstein C, Fuller SR, Snider L, Varga-Szemes A, Hardie AD.
Eur J Radiol. 2016 Jul;85(7):1257-64
- 2016 Single- and dual-energy CT of the abdomen: comparison of radiation dose and image quality of 2nd and 3rd generation dual-source CT.
Wichmann JL, Hardie AD, Schoepf UJ, Felmly LM, Perry JD, Varga-Szemes A, Mangold S, **Caruso D**, Canstein C, Vogl TJ, De Cecco CN.
Eur Radiol. 2017 Feb;27(2):642-650
- 2016 Effect of automated tube voltage selection, integrated circuit detector and advanced iterative reconstruction on radiation dose and image quality of 3rd generation dual-source aortic CT angiography: An intra-individual comparison.
Mangold S, De Cecco CN, Wichmann JL, Canstein C, Varga-Szemes A, **Caruso D**, Fuller SR, Bamberg F, Nikolaou K, Schoepf UJ.
Eur J Radiol. 2016 May;85(5):972-8
- 2016 Myocardial perfusion imaging with dual energy CT.
Jin KN, De Cecco CN, **Caruso D**, Tesche C, Spandorfer A, Varga-Szemes A, Schoepf UJ.
Eur J Radiol. 2016 Oct;85(10):1914-21.
- 2016 Dynamic CT myocardial perfusion imaging.
Caruso D, Eid M, Schoepf UJ, Jin KN, Varga-Szemes A, Tesche C, Mangold S, Spandorfer A, Laghi A, De Cecco CN.
Eur J Radiol. 2016 Oct;85(10):1893-9.
- 2016 Correction Factors for CT Coronary Artery Calcium Scoring Using Advanced Modeled Iterative Reconstruction Instead of Filtered Back Projection.
Caruso D, De Cecco CN, Schoepf UJ, Felmly LM, Varga-Szemes A, Mangold S, Canstein C, Allmendinger T, Fuller SR, Laghi A, Wichmann JL.
Acad Radiol. 2016 Dec;23(12):1480-1489. doi: 10.1016/j.acra.2016.07.015. Epub 2016 Sep 8.
- 2017 Diagnostic performance of computed tomography and magnetic resonance imaging for detecting peritoneal metastases: systematic review and meta-analysis.
Laghi A, Bellini D, Rengo M, Accarpio F, **Caruso D**, Biacchi D, Di Giorgio A, Sammartino P.

- Radiol Med.* 2017 Jan;122(1):1-15. doi: 10.1007/s11547-016-0682-x. Epub 2016 Sep 19. Review.
- 2017 Diagnostic accuracy of coronary CT angiography using 3rd-generation dual-source CT and automated tube voltage selection: Clinical application in a non-obese and obese patient population.
Mangold S, Wichmann JL, Schoepf UJ, **Caruso D**, Tesche C, Steinberg DH, Varga-Szemes A, Stubenrauch AC, Bayer RR 2nd, Biancalana M, Nikolaou K, De Cecco CN. *Eur Radiol.* 2017 Jun;27(6):2298-2308. doi: 10.1007/s00330-016-4601-2. Epub 2016 Sep 28.
- 2017 T(Rho) and magnetization transfer and INvERSION recovery (TRAMINER)-prepared imaging: A novel contrast-enhanced flow-independent dark-blood technique for the evaluation of myocardial late gadolinium enhancement in patients with myocardial infarction.
Muscogiuri G, Rehwald WG, Schoepf UJ, Suranyi P, Litwin SE, De Cecco CN, Wichmann JL, Mangold S, **Caruso D**, Fuller SR, Bayer Nd RR, Varga-Szemes A. *J Magn Reson Imaging.* 2017 May;45(5):1429-1437. doi: 10.1002/jmri.25498. Epub 2016 Sep 30.
- 2017 Can dual-energy computed tomography improve visualization of hypoenhancing liver lesions in portal venous phase? Assessment of advanced image-based virtual monoenergetic images.
Caruso D, De Cecco CN, Schoepf UJ, Schaefer AR, Leland PW, Johnson D, Laghi A, Hardie AD. *Clin Imaging.* 2017 Jan - Feb;41:118-124. doi: 10.1016/j.clinimag.2016.10.015. Epub 2016 Oct 19.
- 2017 Optimization of window settings for standard and advanced virtual monoenergetic imaging in abdominal dual-energy CT angiography.
Caruso D, Parinella AH, Schoepf UJ, Stroebl MH, Mangold S, Wichmann JL, Varga-Szemes A, Ball BD Jr, De Santis D, Laghi A, De Cecco CN. *Abdom Radiol (NY).* 2017 Mar;42(3):772-780. doi: 10.1007/s00261-016-0963-9.
- 2017 CT myocardial perfusion: state of the science.
Caruso D, DE Santis D, Schoepf UJ, Zerunian M, Eid M, Varga-Szemes A, Tesche C, Duguay TM, Laghi A, DE Cecco CN. *Minerva Cardioangiol.* 2017 Jun;65(3):252-264. doi: 10.23736/S0026-4725.16.04281-X. Epub 2016 Dec 13.
- 2017 Coronary Computed Tomography Angiography-Derived Plaque Quantification in Patients With Acute Coronary Syndrome.
Tesche C, **Caruso D**, De Cecco CN, Shuler DC, Rames JD, Albrecht MH, Duguay TM, Varga-Szemes A, Jochheim D, Baquet M, Bayer RR, Ebersberger U, Litwin SE, Chiaramida SA, Hoffmann E, Schoepf UJ. *Am J Cardiol.* 2017 Mar 1;119(5):712-718. doi: 10.1016/j.amjcard.2016.11.030. Epub 2016 Dec 3.
- 2017 CT angiography for planning transcatheter aortic valve replacement using automated tube voltage selection: Image quality and radiation exposure.
Mangold S, De Cecco CN, Schoepf UJ, Kuhlman TS, Varga-Szemes A, **Caruso D**, Duguay TM, Tesche C, Vogl TJ, Nikolaou K, Steinberg DH, Wichmann JL. *Eur J Radiol.* 2017 Jan;86:276-283. doi: 10.1016/j.ejrad.2016.11.023. Epub 2016 Nov 27.

- 2017 Accuracy of Noncontrast Quiescent-Interval Single-Shot Lower Extremity MR Angiography Versus CT Angiography for Diagnosis of Peripheral Artery Disease: Comparison With Digital Subtraction Angiography.
Varga-Szemes A, Wichmann JL, Schoepf UJ, Suranyi P, De Cecco CN, Muscogiuri G, **Caruso D**, Yamada RT, Litwin SE, Tesche C, Duguay TM, Giri S, Vliegenthart R, Todoran TM.
JACC Cardiovasc Imaging. 2017 Jan 12. pii: S1936-878X(16)30978-0. doi: 10.1016/j.jcmg.2016.09.030. [Epub ahead of print]
- 2017 Optimizing Contrast Media Injection Protocols in Computed Tomography Angiography at Different Tube Voltages: Evaluation in a Circulation Phantom.
Caruso D, Eid M, Schoepf UJ, De Santis D, Varga-Szemes A, Mangold S, Canstein C, Lesslie VW, Fuller SR, Ball BD, Laghi A, De Cecco CN.
J Comput Assist Tomogr. 2017 Apr 26. doi: 10.1097/RCT.0000000000000613. [Epub ahead of print]
- 2017 MDCT of the liver in obese patients: evaluation of a different method to optimize iodine dose.
Rengo M, Bellini D, Businaro R, **Caruso D**, Azzara G, De Santis D, Picchia S, Biondi T, Eid M, Boschiero D, Laghi A.
Abdom Radiol (NY). 2017 Apr 27. doi: 10.1007/s00261-017-1156-x. [Epub ahead of print]
- 2017 Cinematic Rendering in CT: A Novel, Lifelike 3D Visualization Technique.
Eid M, De Cecco CN, Nance JW Jr, **Caruso D**, Albrecht MH, Spandorfer AJ, De Santis D, Varga-Szemes A, Schoepf UJ.
AJR Am J Roentgenol. 2017 Aug;209(2):370-379. doi: 10.2214/AJR.17.17850. Epub 2017 May 15.
- 2017 Aneurysm of Vieussens' arterial ring in a patient studied with coronary computed tomography.
De Cecco CN, Rengo M, Muscogiuri G, **Caruso D**, Bellini D, Laghi A.
J Cardiovasc Med (Hagerstown). 2017 Sep;18(9):696-697.
- 2017 Iterative beam-hardening correction with advanced modeled iterative reconstruction in low voltage CT coronary calcium scoring with tin filtration: Impact on coronary artery calcium quantification and image quality.
Tesche C, De Cecco CN, Schoepf UJ, Duguay TM, Albrecht MH, **Caruso D**, Varga-Szemes A, Lesslie VW, Ebersberger U, Canstein C, Thilo C, Hoffmann E, Allmendinger T, Nance JW.
J Cardiovasc Comput Tomogr. 2017 Sep - Oct;11(5):354-359. doi: 10.1016/j.jcct.2017.07.003. Epub 2017 Jul 24.
- 2017 Bowel preparation in CT colonography: Is diet restriction necessary? A randomised trial (DIETSAN).
Bellini D, De Santis D, **Caruso D**, Rengo M, Ferrari R, Biondi T, Laghi A.
Eur Radiol. 2017 Aug 10. doi: 10.1007/s00330-017-4997-3. [Epub ahead of print]
- 2018 Optimisation of window settings for traditional and noise-optimised virtual monoenergetic imaging in dual-energy computed tomography pulmonary angiography.
D'Angelo T, Bucher AM, Lenga L, Arendt CT, Peterke JL, **Caruso D**, Mazziotti S, Blandino A, Ascenti G, Othman AE, Martin SS, Leithner D, Vogl TJ, Wichmann JL.

- Eur Radiol.* 2018 Apr;28(4):1393-1401
- 2018 Haralick's texture features for the prediction of response to therapy in colorectal cancer: a preliminary study.
Caruso D, Zerunian M, Ciolina M, de Santis D, Rengo M, Soomro MH, Giunta G, Conforto S, Schmid M, Neri E, Laghi A.
Radiol Med. 2018 Mar;123(3):161-167.
- 2017 USPIO-labeling in M1 and M2-polarized macrophages: an in vitro study using a clinical Magnetic Resonance scanner.
Zini C, Venneri MA, Miglietta S, Caruso D, Porta N, Isidori A, Fiore D, Gianfrilli D, Petrozza V, Laghi A.
J Cell Physiol. 2017 Dec 12. doi: 10.1002/jcp.26360
- 2017 Magnetic resonance tumor regression grade (MR-TRG) to assess pathological complete response following neoadjuvant radiochemotherapy in locally advanced rectal cancer.
Rengo M, Picchia S, Marzi S, Bellini D, Caruso D, Caterino M, Ciolina M, De Santis D, Musio D, Tombolini V, Laghi A.
Oncotarget. 2017 Oct 10;8(70):114746-114755
- 2018 A noise-optimized virtual monoenergetic reconstruction algorithm improves the diagnostic accuracy of late hepatic arterial phase dual-energy CT for the detection of hypervascular liver lesions.
De Cecco CN, Caruso D, Schoepf UJ, De Santis D, Muscogiuri G, Albrecht MH, Meinel FG, Wichmann JL, Burchett PF, Varga-Szemes A, Sheafor DH, Hardie AD.
Eur Radiol. 2018 Feb 19. [Epub ahead of print].
- 2018 Contrast media injection protocol optimization for dual-energy coronary CT angiography: results from a circulation phantom.
De Santis D, Caruso D, Schoepf UJ, Eid M, Albrecht MH, Duguay TM, Varga-Szemes A, Laghi A, De Cecco CN.
Eur Radiol. 2018 Feb 27 [Epub ahead of print].
- 2018 Dual-Energy Computed Tomography in Cardiothoracic Vascular Imaging.
De Santis D, Eid M, De Cecco CN, Jacobs BE, Albrecht MH, Varga-Szemes A, Tesche C, Caruso D, Laghi A, Schoepf UJ.
Radiol Clin North Am. 2018 Jul;56(4):521-534
- 2019 Half-dose Coronary Artery Calcium Scoring: Impact of Iterative Reconstruction.
Caruso D, De Santis D, Biondi T, Panvini N, Zerunian M, Rivosecchi F, Montesano M, Bellini D, Rengo M, Laghi A.
J Thorac Imaging. 2019 Jan;34(1):18-25
- 2018 Lean Body Weight-Tailored Iodinated Contrast Injection in Obese Patient: Boer versus James Formula.
Caruso D, De Santis D, Rivosecchi F, Zerunian M, Panvini N, Montesano M, Biondi T, Bellini D, Rengo M, Laghi A.
Biomed Res Int. 2018 Aug 13;2018:8521893
- 2018 How new technologies could impact on radiology diagnosis and assessment of pancreatic lesions: Future perspectives.
Laghi A, Zerunian M, Caruso D.
Endosc Ultrasound. 2018 Sep-Oct;7(5):310-313.
- 2018 Dynamic contrast-enhanced magnetic resonance imaging in locally advanced rectal

- cancer: role of perfusion parameters in the assessment of response to treatment.
Ciolina M, **Caruso D**, De Santis D, Zerunian M, Rengo M, Alfieri N, Musio D, De Felice F, Ciardi A, Tombolini V, Laghi A.
Radiol Med. 2018 Dec 17. [Epub ahead of print]
- 2019 Severe chest allodynia as an unusual first presentation of hydatid disease: a case report.
Coluzzi F, Meniconi RL, **Caruso D**, Rivosecchi F, Petrone L, Goletti D, Ettore GM.
BMC Infect Dis. 2019 Jan 9;19(1):37. doi: 10.1186/s12879-019-3670-7.
- 2019 Modified calcium subtraction in dual-energy CT angiography of the lower extremity runoff: impact on diagnostic accuracy for stenosis detection.
De Santis D, De Cecco CN, Schoepf UJ, Nance JW, Yamada RT, Thomas BA, Otani K, Jacobs BE, Turner DA, Wichmann JL, Eid M, Varga-Szemes A, **Caruso D**, Grant KL, Schmidt B, Vogl TJ, Laghi A, Albrecht MH.
Eur Radiol. 2019 Feb 25. [Epub ahead of print]
- 2019 Automated Segmentation of Colorectal Tumor in 3D MRI Using 3D Multiscale Densely Connected Convolutional Neural Network.
Soomro MH, Coppotelli M, Conforto S, Schmid M, Giunta G, Del Secco L, Neri E, **Caruso D**, Rengo M, Laghi A.
J Healthc Eng. 2019 Jan 31;2019:1075434.
- 2019 Dynamic MR of the pelvic floor: Influence of alternative methods to draw the pubococcygeal line (PCL) on the grading of pelvic floor descent.
Picchia S, Rengo M, Bellini D, **Caruso D**, Pironti E, Floris R, Laghi A.
Eur J Radiol Open. 2019 May 20;6:187-191.
- 2019 Layered enhancement at magnetic resonance enterography in inflammatory bowel disease: A meta-analysis.
Bellini D, Rivosecchi F, Panvini N, Rengo M, **Caruso D**, Carbone I, Ferrari R, Paolantonio P, Laghi A.
World J Gastroenterol. 2019 Aug 21;25(31):4555-4566.
- 2019 Radiogenomics in Clear Cell Renal Cell Carcinoma: Correlations Between Advanced CT Imaging (Texture Analysis) and MicroRNAs Expression.
Marigliano C, Badia S, Bellini D, Rengo M, **Caruso D**, Tito C, Miglietta S, Palleschi G, Pastore AL, Carbone A, Fazi F, Petrozza V, Laghi A.
Technol Cancer Res Treat. 2019 Jan 1;18
- 2020 CT texture analysis of liver metastases in PNETs versus NPNETs: Correlation with histopathological findings.
Martini I, Polici M, Zerunian M, Panzuto F, Rinzivillo M, Landolfi F, Magi L, **Caruso D**, Eid M, Annibale B, Laghi A, Iannicelli E.
Eur J Radiol. 2020 Mar;124:108812. Epub 2020 Jan 7
- 2020 Chest CT Features of COVID-19 in Rome, Italy.
Caruso D, Zerunian M, Polici M, Pucciarelli F, Polidori T, Rucci C, Guido G, Bracci B, de Dominicis C, Laghi A.
Radiology. 2020 Apr 3:201237. [Epub ahead of print]
- 2020 Diffusion-Weighted Imaging in Oncology: An Update.
Messina C, Bignone R, Bruno A, Bruno A, Bruno F, Calandri M, **Caruso D**, Coppolino P, Robertis R, Gentili F, Grazzini I, Natella R, Scalise P, Barile A, Grassi R, Albano D.
Cancers (Basel). 2020 Jun 8;12(6):1493

- 2020 Impact of coronavirus disease 2019 (COVID-19) emergency on Italian radiologists: a national survey.
Albano D, Bruno A, Bruno F, Calandri M, **Caruso D**, Clemente A, Coppolino P, Cozzi D, De Robertis R, Gentili F, Grazzini I, Jannone ML, Liguori C, Natella R, Pace G, Posa A, Scalise P, Accarino B, Bibbolino C, Barile A, Grassi R, Messina C; Young SIRM Working Group.
Eur Radiol. 2020 Jul 14:1-10
- 2020 Carotid and cerebrovascular dual-energy computed tomography angiography: Optimization of window settings for virtual monoenergetic imaging reconstruction.
D'Angelo T, Lenga L, Arendt CT, Bucher AM, Peterke JL, **Caruso D**, Mazziotti S, Ascenti G, Blandino A, Othman AE, Martin SS, Albrecht MH, Bodelle B, Vogl TJ, Wichmann JL.
Eur J Radiol. 2020 Jul 9;130:109166. Online ahead of print.
- 2020 Visceral fat shows the strongest association with the need of intensive Care in Patients with COVID-19.
Watanabe M, **Caruso D**, Tuccinardi D, Risi R, Zerunian M, Polici M, Pucciarelli F, Tarallo M, Strigari L, Manfrini S, Mariani S, Basciani S, Lubrano C, Laghi A, Gnessi L.
Metabolism. 2020 Jul 23:154319
- 2020 Typical and atypical COVID-19 computed tomography findings.
Caruso D, Polidori T, Guido G, Nicolai M, Bracci B, Cremona A, Zerunian M, Polici M, Pucciarelli F, Rucci C, Dominici C, Girolamo MD, Argento G, Sergi D, Laghi A.
World J Clin Cases. 2020 Aug 6;8(15):3177-3187.
- 2020 Involvement of radiologists in oncologic multidisciplinary team meetings: an international survey by the European Society of Oncologic Imaging.
Neri E, Gabelloni M, Bäuerle T, Beets-Tan R, **Caruso D**, D'Anastasi M, Dinkel J, Fournier LS, Gourtsoyianni S, Hoffmann RT, Mayerhöfer ME, Regge D, Schlemmer HP, Laghi A.
Eur Radiol. 2020 Aug 24.
- 2020 Artificial intelligence in cardiac radiology.
van Assen M, Muscogiuri G, **Caruso D**, Lee SJ, Laghi A, De Cecco CN.
Radiol Med. 2020 Sep 18
- 2020 Magnetic Resonance of Rectal Cancer Response to Therapy: An Image Quality Comparison between 3.0 and 1.5 Tesla.
Caruso D, Zerunian M, De Santis D, Biondi T, Paolantonio P, Rengo M, Bellini D, Ferrari R, Ciolina M, Lucertini E, Polici M, Iannicelli E, Tombolini V, Laghi A.
Biomed Res Int. 2020 Oct 10;2020:9842732
- 2020 Quantitative Chest CT analysis in discriminating COVID-19 from non-COVID-19 patients.
Caruso D, Polici M, Zerunian M, Pucciarelli F, Polidori T, Guido G, Rucci C, Bracci B, Muscogiuri E, De Dominicis C, Laghi A.
Radiol Med. 2020 Oct 12:1-7
- 2021 Value of minimum intensity projections for chest CT in COVID-19 patients.
Booz C, Vogl TJ, Joseph Schoepf U, **Caruso D**, Inserra MC, Yel I, Martin SS, Bucher AM, Lenga L, Caudo D, Schreckenbach T, Schoell N, Huegel C, Stratmann J, Vasa-Nicotera M, Rachovitsky-Duarte DE, Laghi A, De Santis D, Mazziotti S, D'Angelo T, Albrecht MH.

- Eur J Radiol.* 2021 Feb;135:109478.
- 2021 Optimization of contrast medium volume for abdominal CT in oncologic patients: prospective comparison between fixed and lean body weight-adapted dosing protocols.
Caruso D, Rosati E, Parvini N, Rengo M, Bellini D, Moltoni G, Bracci B, Lucertini E, Zerunian M, Polici M, De Santis D, Iannicelli E, Anibaldi P, Carbone I, Laghi A.
Insights Imaging. 2021 Mar 20;12(1):40
- 2021 CT based radiomic approach on first line pembrolizumab in lung cancer.
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Capitoli Di Libri

- 2008 Cpt 8: Software di visualizzazione; La Colonscopia Virtuale; A.Laghi, R.Passariello; Ed Springer; 2008.
- 2019 Cpt 12: The Challenging patient; CT of the Heart. Humana Pres. 2019
- 2020 Cpt 4: Computed Tomography of the Liver; Imaging of the Liver and Intra-hepatic Biliary Tract. Quaia E. Springer 2020
- 2022 Cpt XXX: Radiation Dose Optimization: The Role of Artificial Intelligence. Artificial Intelligence in Cardiothoracic. De Cecco CN, van Assen M, Leiner T, eds. Humana Press, 2022
- 2023 Cpt XXX: The Gastrointestinal System in Geriatric Patients. Imaging in Geriatrics. Guglielmi G, Maas M, eds. Springer, 2023, in press.

Revisore

European Radiology
Investigative Radiology
EJR, European Journal of Radiology
BJR, British Journal of Radiology
JTI, Journal of Thoracic Imaging
JCAT, Journal of Computer Assisted Tomography
KJR, Korean Journal of Radiology
Insights into Imaging
Metabolism
Diagnostic and Interventional Radiology
Atherosclerosis
Cancer Imaging
Clinical Radiology

Editorial Board

- 2018 – presente BMC Medical Imaging (Associate Editor)
- 2018 – presente JTD Journal of Thoracic Disease (Associate Editor)
- 2020 – presente Biomed Research International (Academic Editor)
- 2021-presente Insights into Imaging
- 2021 Diagnostics (Special Issue Academic Editor)
- 2022 Contrast Media & Molecular Imaging
- 2023 BJR, British Journal of Radiology
- 2024 Radiologia Medica, Junior Deputy Editor

Premi E

Riconoscimenti

- 2011 “Invest in the youth” del ESCR, European Society of Cardiac Radiology
- 2013 “Invest in the youth” del ECR, European Congress of Radiology
- 2014 Vincitore della I edizione del “Premio Passariello” della SIRM
- 2016 Top 20 Presenter ESGAR 2016
- 2017 Travel Award RSNA 2017
- 2017 AuntMinnie RSNA Roadie CT Winner 2017
- 2021 Sviluppo APP iMDC (Apple e Android)
- 2023 Sanofi – Menzione Speciale Research to Care

Membro Società Scientifiche

SIRM (Società Italiana Radiologia Medica) – Responsabile Soci Junior
ESR (European Society of Radiology)
ESGAR (European Society of Gastro-Abdominal Radiology) – Education Committee,
Coordinator of Young ESGAR.
ESOI (European Society of Oncologic Imaging) Board Member, Executive Committee,
Chairman of the Young Radiologist Committee.

Dati personali

*Autorizzo il trattamento dei miei dati personali ai sensi del Decreto
Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati
personali.*

In fede

Prof. Damiano Caruso



Roma, 24-06-2025

Linee programmatiche principali:

- Valorizzare il ruolo dell'Intelligenza Artificiale nella radiologia come supporto al clinico.
- Promuovere in ambito SIRM una cultura consapevole dell'IA, evidenziando benefici, limiti ed errori comuni.
- Favorire l'integrazione della radiomica nella pratica clinica, con focus su applicabilità e impatto decisionale.

Grazie

Best regards
Damiano