

**PERSONAL INFORMATION** Francesca Caumo

Sex Female | Date of birth 11/10/1969 | Nationality Italian

**POSITION** Medical Radiologist**EDUCATION AND TRAINING**

- 1983–1988 High School Diploma  
Scientific High School A. Messedaglia, Verona (Italy)
- 1988–1994 MD  
University of Verona, Verona (Italy)  
Degree in Medicine and Surgery
- 1994–1998 Post-graduate specialist training  
University of Verona, Diagnostic Radiology and Imaging, Verona (Italy)  
In depth study of different topics in radiology:
- Conventional radiology and ultrasound
  - Interventional radiology, CT and magnetic resonance
  - Breast Imaging
- 05/2001–09/2001 Master  
Three-month attendance at New York University for specialist course in Breast Magnetic Resonance Imaging

**WORK EXPERIENCE**

- 1998–2006 Medical Radiology  
Referent for Orthopedic Radiology  
Referent Radiologist, Anesthesia and Reanimation and Neonatal Pathology [CAD1]  
Head of the Breast Imaging Unit, ex "G.B. Rossi" Polyclinic, now Integrated University Hospital in Verona, Italy
- 2006–2017 Radiology Unit dedicated to breast imaging and screening  
Local Health Unit (ULSS) 20, now AULSS9, Verona (Italy)  
Director, Center for Breast Disease [CAD2] Prevention  
Referent Radiologist for the regional Screening program, Veneto Region  
Board member of the Italian Society of Medical Radiologists (SIRM)  
Director of the Breast Unit  
Co-Investigator of a clinical trial for the evaluation of tomosynthesis versus FFDM (2013-2014)

Principal Investigator of a clinical trial for the evaluation of the diagnostic performance of breast tomosynthesis and synthetic 2D (2015-2019)

01/09/2017–08/2020 Director of Breast and Oncology Diagnostic Services, UOC Veneto Institute of Oncology (IOV), Padova, Italy

Board member Gisma (Italian Group for mammography screening)

Principal Investigator, Research Project (Ricerca Finalizzata) for the evaluation of mammography with contrast medium (2018-2022)[CAD3]

Principal Investigator, Pilot Project for personalized screening for women aged 45-46 years (2020)

Principal Investigator RISP Rete Italiana Screening Polmonare

01/09/2020–ad oggi Director of Breast Diagnostic Services, UOC Veneto Institute of Oncology (IOV), Padova, Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	B1

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

Communication skills Excellent communication skills acquired through experience as:

- Invited speaker to numerous national and international conferences and courses, since 2000
- Supervisor and Co-supervisor for undergraduate and specialization degree theses, since 2000
- Contract professor of Breast Imaging for the undergraduate degree program in Medical Radiology and Imaging Techniques and Radiotherapy
- Good formal communication skills acquired during my experience as a peer reviewer for the scientific journals: European Radiology and BMC Cancer

Organisational / managerial skills Experience in organizing a mammography screening program and management of medical, nursing and TSRM personnel.  
 Management of health facilities accreditation

Job-related skills Basic and emergency radiology  
 Soft tissue ultrasound with specific competencies for breast ultrasound  
 Interventional radiology: Stereotactic, ultrasound and MR guided breast imaging  
 Reading of screening mammograms; second level and clinical management

Digital skills SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Independent User	Proficient User	Independent User	Independent User	Basic User

Levels: Basic user - Independent user - Proficient user  
Digital competences - Self-assessment grid

## ADDITIONAL INFORMATION

## Publications

- **Interval breast cancers: absolute and proportional incidence and blinded review in a community mammographic screening program.** Carbonaro LA, Azzarone A, Paskeh BB, Brambilla G, Brunelli S, Calori A, Caumo F, Malerba P, Menicagli L, Sconfienza LM, Vadalà G, Brambilla G, Fantini L, Ciatto S, Sardanelli F. *Eur J Radiol.* 2014 Feb;83(2):e84-91. doi: 10.1016/j.ejrad.2013.11.025. Epub 2013 Dec 6
- **Breast screening using 2D-mammography or integrating digital breast tomosynthesis (3D-mammography) for single-reading or double-reading—evidence to guide future screening strategies.** Houssami N, Macaskill P, Bernardi D, Caumo F, Pellegrini M, Brunelli S, Tuttobene P, Bricolo P, Fantò C, Valentini M, Ciatto S. *Eur J Cancer.* 2014 Jul;50(10):1799-807. doi: 10.1016/j.ejca.2014.03.017. Epub 2014 Apr
- **Effect of integrating 3D-mammography (digital breast tomosynthesis) with 2D-mammography on radiologists' true-positive and false-positive detection in a population breast screening trial.** Bernardi D, Caumo F, Macaskill P, Ciatto S, Pellegrini M, Brunelli S, Tuttobene P, Bricolo P, Fantò C, Valentini M, Montemezzi S, Houssami N. *Eur J Cancer.* 2014 May;50(7):1232-8. doi: 10.1016/j.ejca.2014.02.004. Epub 2014 Feb 28
- **Incremental effect from integrating 3D-mammography (tomosynthesis) with 2D-mammography: Increased breast cancer detection evident for screening centres in a population-based trial.** Caumo F, Bernardi D, Ciatto S, Macaskill P, Pellegrini M, Brunelli S, Tuttobene P, Bricolo P, Fantò C, Valentini M, Montemezzi S, Houssami N.
- **A prospective comparative evaluation of the integration of 3D digital mammography with tomosynthesis in population breast screening – the STORM trial.** Ciatto S, Houssami N, Bernardi D, Caumo F, Pellegrini M, Brunelli S, Tuttobene P, Bricolo P, Fantò C, Valentini M, Montemezzi S, and Macaskill P. *The Lancet Oncology* (accepted 18 March 2013)
- **Analysis of proportional incidence and review of interval cancer cases observed within the mammography screening programme in Trento Province, Italy.** Marco Pellegrini, Daniela Bernardi Stefano Di Michele, Paola Tuttobene, Carmine Fantò, Marvi Valentini, Francesca Caumo, Stefano Ciatto, Alfonso Frigerio. *Radiol Med*, 2011
- **Commentary: evidence of interval cancer proportional incidence and review from mammography screening programmes in Italy.** Stefano Ciatto, Daniela Bernardi, Francesca Caumo. *Tumori* 2011
- **Evidence of interval cancer proportional incidence and review from mammography screening programs in Italy.** Ciatto S, Bernardi D, Caumo F. *Tumori.* 2011 Jul-Aug;97(4):419-22. doi: 10.1700/950.10391. Review.
- **Analysis of interval cancers observed in an Italian mammography screening programme (2000-2006)** . Caumo F, Vecchiato F, Pellegrini M, Vettorazzi M, Ciatto S, Montemezzi *Radiol Med.* 2009;114:907-91
- **Benefici della doppia lettura nello screening mammografico** Caumo F, Ciatto S, Brunelli M, Zorzi M, Baglio I, Montemezzi S.. *Atti 44° Congresso Nazionale SIRM, Verona. Radiol Med* 2010 115(S);C18/37:345
- **Carcinoma Intervallo: caratteristiche biologiche.** Caumo F, Brunelli S, Vecchiato F, Strabbioli M, Zorzi M, Ciatto S. *Atti 44° Congresso Nazionale SIRM, Verona. Radiol Med* 2010 115(S); c18/38:345
- **Interval cancers in breast cancer screening: comparison of stage and biological characteristics with screen-detected cancers of incident cancers in the absence of screening** .Caumo F, Vecchiato F, Strabbioli M, Zorzi M, Baracco S, Ciatto S. *Tumori.* 2010;96:198-201.

- **On the role of arbitration of discordant double readings of screening mammography: experience from two Italian programmes**. Caumo F, Brunelli S, Tosi E, Teggi S, Bovo C, Bonavina G, Ciatto S. *Radiol Med*. 2010 Oct 27. [Epub ahead of print]
- **Benefits of double reading of screening mammograms: retrospective study on a consecutive series**. Caumo F, Brunelli S, Zorzi M, Baglio I, Ciatto S, Montemezzi S. *Radiol Med*. 2011 Mar 7. [Epub ahead of print]
- **Autologous chondrocyte implantation: prospective MRI evaluation with clinical correlation** Caumo F, Russo A, Faccioli N, Vecchini E, Costa A, Ricci M, Pozzi Mucelli R. *Radiol Med*. 2007;112:722-731
- **Angiosonography in suspicious breast lesions with non diagnostic FNAC: comparison with power Doppler US** Caumo F, Carbognin G, Casarin A, Pinali L, Vasori S, D'Onofrio M, Pozzi Mucelli R. *Radiol Med*. 2006;111:61-72
- **Occult inflammatory breast cancer: review of clinical, mammographic, US and pathologic signs** Caumo F, Gaioni MB, Bonetti F, Manfrin E, Remo A, Pattaro C. *Radiol Med*. 2005;109:308-320.
- **Digital radiography of the thorax with selenium detector. Clinical results and optimization potential of the technique**. Procacci C, Minniti S, Caumo F, Moore F, Temullo S, Predicatori F, Locatelli F, Pistolesi GF. *Radiol Med*. 1998;96:446-453
- **Comparison between conventional radiography and Thoravision in the study of the normal chest** Procacci C, Minniti S, Biondetti PP, Moore F, Caumo F, Temullo S, Carbognin G, Bergamo-Andreis IA.
- **"Correlazione radiologica-patologica delle lesioni mammarie"** Caumo F, Franzoso F, Montemezzi S. *Trattato di Senologia Piccin* 2005
- **Syllabus "Imaging RM nella Donna"** Montemezzi S, Caumo F, Fomasa F, A. Ragazzino, Idelson Gnocchi 2010.22.
- **Mammography and MRI for screening women who underwent chest radiation therapy (lymphoma survivors: recommendations for surveillance from the Italian College of Breast Radiologists by SIRM** Mariscotti G, Belli P, Bernardi D, Brancato B, Calabrese M, Carbonaro LA, Cavallo-Marincola B, Caumo F, Clauser P, Marincich L, Montemezzi S, Panizza P, Pediconi F, Tagliafico A, Trimboli RM, Zuiani C, Sardanelli F. *Radiol Med*. 2016 Nov;121(11):834-837. Epub 2016 Jul 12.
- **Recommendations for breast imaging follow up of women with a previous history of breast cancer: position paper from the Italian Group for Mammography Screening (GISMa) and the Italian College of Breast Radiologists (ICBR) by SIRM** Bucchi L, Belli P, Benelli E, Bernardi D, Brancato B, Calabrese M, Carbonaro LA, Caumo F, Cavallo-Marincola B, Clauser P, Fedato C, Frigerio A, Galli V, Giordano L, Golinelli P, Mariscotti G, Martincich L, Montemezzi S, Morrone D, Naldoni C, Paduos A, Panizza P, Pediconi F, Querci F, Rizzo A, Saguatti G, Tagliafico A, Trimboli RM, Zuiani C, Sardanelli F. *Radiol Med*. 2016 Dec;121(12):891-896. Epub 2016 Sep 6
- **High -field MR spectroscopy in the multiparametric MRI evaluation of breast lesions** Cavedon C, Meliadoro G, Rossi L, Camera L, Baglio I, Caumo F, Montemezzi S. *Phys Med*. 2016 Dec;32(12):1707-1711. doi: 10.1016/j.ejmp.2016.09.008. Epub 2016 Sep 13
- **H-MR spectroscopy of suspicious breast mass lesions at 3T: a clinical experience** Montemezzi S, Cavedon C, Camera L, Meliadoro G, Caumo F, Baglio I, Sardanelli F. *Radiol Med*. 2017 Mar;122(3):161-170. doi: 10.1007/s11547-016-0713-7. Epub 2016 Dec 15.
- **Digital breast Tomosynthesis (DBT) : recommendations from the Italian College of Breast Radiologists (ICBR) by the Italian Society of Medical Radiology (SIRM) and the Italian Group for Mammography Screening (GISMa)** Bernardi D, Belli P, Benelli E, Brancato B, Bucchi L, Calabrese M, Carbonaro LA, Caumo F, Cavallo-Marincola B, Clauser P, Fedato C, Frigerio A, Galli V, Giordano L, Giorgi Rossi P, Golinelli P, Morrone D, Mariscotti G, Martincich L, Montemezzi S, Naldoni C, Paduos A, Panizza P, Pediconi F, Querci F, Rizzo A, Saguatti G, Tagliafico A, Trimboli RM, Zappa M, Zuiani C, Sardanelli F. *Radiol Med*. 2017 May 25. doi: 10.1007/s11547-017-0769-z. [Epub ahead of print]
- **Digital Breast Tomosynthesis with Synthesized Two-Dimensional Images versus Full-Field Digital Mammography for Population Screening: Outcomes from the Verona Screening Program**1, F. Caumo et al *Radiology* 2017
- **Interval breast Cancers in the screening with tomosynthesis or standard mammography**

- (STORM) population based trial. N.Houssami, D. Bernardi F. Caumo Breast 2018
- **An Exploratory Radiomics analysis on digital breast tomosynthesis in women with mammographically negative dense breast.** Tagliafico AS, Valdora F, Mariscotti G, Durando M, Nori J, La Forgia D, Rosenberg I, Caumo F, Gandolfo N, Houssami N, Calabrese M. Breast. 2018 Apr 30;40:92-96
  - **Comparison of breast cancers detected in the Verona screening program following transition to digital breast tomosynthesis screening with cancers with cancers detected at digital mammography screening.** Caumo F, Romanucci G, Hunter K, Zorzi M, Brunelli S, Macaskill P, Houssami N. Breast Cancer Res Treat. 2018 Jul
  - **Is there a correlation between 3T multiparametric MRI and molecular subtypes of breast cancer?** Montemezzi S, Camera L, Giri MG, Pozzetto A, Calìo A, Meliadiò G, Caumo F, Cavedon C. Eur J Radiol. 2018 Nov;108:120-127.
  - **A prospective comparative trial of adjunct screening with tomosynthesis or ultrasound in women with mammography-negative dense breasts (ASTOUND-2).** Tagliafico AS, Mariscotti G, Valdora F, Durando M, Nori J, La Forgia D, Rosenberg I, Caumo F, Gandolfo N, Sormani MP, Signori A, Calabrese M, Houssami N. Eur J Cancer. 2018 Nov;104:39-46.
  - **Head-to-head comparison between 18F-FDG PET/CT and PET/MRI in breast cancer -** Evangelista Laura, Cuppari Lea, Burei Marta, Zorz Alessandra, Francesca C. *Clinical and Translational Imaging*
  - **Accuracy of mammography dosimetry in the era of the European Directive 2013/59/Euratom transposition -** Gennaro Gisella Maria, Bigolaro, S., Hill, M. L., Stramare, R., Francesca C *European Journal of Radiology*
  - **Breast imaging and cancer diagnosis during the COVID-19 pandemic: recommendations from the Italian College of Breast Radiologists by SIRM** Pediconi, F., Galati, F., Bernardi, D., Belli, P., Brancato, B., Calabrese, M., Camera, L., Carbonaro, L. A., Caumo Francesca, Clauser, P., Girardi, V., Iacconi, C., Martincich, L., Panizza, P., Petrillo, A., Schiaffino, S., Tagliafico, A., Trimboli, R. M., Zuiani, C., Sardanelli, F., Montemezzi, S. - *Radiologia Medica*
  - **Lesions of uncertain malignant potential of the breast (B3) on vacuum-assisted biopsy for microcalcifications: Predictors of malignancy -** Mariscotti, G., Durando, M., Ruggirello, I., Belli, P., Caumo Francesca, Nori, J., Zuiani, C., Tagliafico, A., Bicchierai, G., Romanucci, G., Londero, V., Campanino, P. P., Bussone, R., Castellano, I., Mule, A., Caneva, A., Bianchi, S., Di Loreto, C., Bergamasco, L., Calabrese, M., Fonio, P., Houssami, N. *European Journal of Radiology*
  - **Repeat Screening Outcomes with Digital Breast Tomosynthesis Plus Synthetic Mammography for Breast Cancer Detection: Results from the Prospective Verona Pilot Study** Caumo Francesca, Montemezzi, S., Romanucci, G., Brunelli, S., Bricolo, P., Cugola, L., Gennaro Gisella Maria - *Radiology*
  - **Reply to the Letter to the Editor: 'Mammography dose estimates do not reflect any specific patients breast dose' -** Gennaro Gisella Maria, Bigolaro, S., Stramare, R., Hill, M. L., Caumo Francesca *European Journal of Radiology*
  - **"Artifact reduction in contrast-enhanced mammography"** Gennaro G, Baldan E, Bezzon E, Caumo F (2022). *Insights Imaging* 2022 May 13;13(1):90
  - **Radiation Dose of Contrast- Enhanced Mammography: A Two-Center Prospective Comparison** Gennaro G, Cozzi A, Schiaffino S, Sardanelli F, Caumo F (2022) "Radiation Dose of Contrast- Enhanced Mammography: A Two-Center Prospective Comparison". *Cancers* 2022 Mar 31;14(7):1774
  - **Quantitative Breast Density in Contrast-Enhanced Mammography",** Gennaro G, Hill ML,

Bezzon E, Caumo F (2021) " J. Clin. Med. 2021, 10, 3309.  
<https://doi.org/10.3390/jcm10153309>

Conferences/Seminars/  
Congresses

Since 2008, Dr. Caumo has been a speaker at 120 courses and congresses.

The following are her main presentations at national and international congresses on Breast Imaging:

- "Synthetic 2D + tomosynthesis for population breast cancer screening: first year of a pilot study" ECR (2017)
- "Le biopsie sotto guida tomosintesi" e Nuove tecnologie. Il punto di vita del Radiologo Gisma 2017
- "Tomosintesi e screening: un'esperienza pratica" Sirm 2017
- "Digital breast tomosynthesis cancer screening versus full field digital mammography cancer screening: imaging and pathological features" RSNA 2017
- "Il carcinoma duttale invasivo" ed "Il carcinoma duttale in situ" AIS 2017
- "A prospective study on sensitivity and reading time of different reading strategies with DBT + synthetic 2D in breast cancer screening" ECR 2018
- "Breast screening with synthetic 2D and digital breast tomosynthesis (DBT): is it really more expensive?" ECR 2018
- "Dense breast; Impact of using tomosynthesis" ECR 2018
- "Screening mammografico in dbt: perche' il passaggio non sara' indolore" Gisma 2018
  - "Mammografia e tomosintesi: distorsioni architeturali" e "La mammografia: screening con tomosintesi?" Cardello SIRM 2018
  - Molecular characterization of breast cancer: could it change potential overdiagnosis analysis? RSNA 2018

"Autorizzo il trattamento dei miei dati personali presenti nel cv ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali" e del GDPR (Regolamento UE 2016/679). Consapevole delle sanzioni penali previste dall'art. 76, D.P.R. 28.12.2000 n. 445, nel caso di dichiarazioni mendaci, dichiaro che quanto riportato sopra corrisponde a verità.

Inoltre, dichiaro di essere informato/a ai sensi e per gli effetti dell'art. 13 del D.Lgs 196/2003, che il presente curriculum verrà pubblicato da Fondazione Scuola di Sanità Pubblica nel proprio sito istituzionale ai sensi della normativa sull'amministrazione trasparente e nel portale ECM della Regione del Veneto"

Padova, Agosto 2022 Dr. Francesca Caumo

