Carlo Asteggiano

Esperienze Lavorative E Professionali

04.2022 - Attuale

Medical Doctor - Neuroradiologist

Fondazione Mondino Istituto Neurologico Nazionale a Carattere Scientifico IRCCS - Pavia

- Clinical-diagnostic activities c/o U.C. of Neuroradiology in the field of central and peripheral nervous system pathologies by CT, MRI and echocolor Doppler transcranial and supra-aortic trunks.
- Clinical research activities in the area of Neuroinflammatory, Neuropediatric, Neurodegenerative and Neuromuscular diseases, particularly through the application of advanced MRI techniques.
- 12- or 24-hour medical on-call activities

12.2019 - 04.2022

Consultant Neuroradiologist

Fondazione Mondino Istituto Neurologico Nazionale a Carattere Scientifico IRCCS, - Pavia

- Clinical-diagnostic activities c/o U.C. of Neuroradiology in the field of central and peripheral nervous system pathologies by CT, MRI and echocolor Doppler transcranial and supra-aortic trunks.

02.2021 - 01.2022

Co.Co.Co

Fondazione Mondino Istituto Neurologico Nazionale a Carattere Scientifico, IRCCS - Pavia

- Research Project entitled "Qualitative and quantitative by muscle magnetic resonance imaging of the natural history natural and disease progression in muscular dystrophy fascioscapulohumeral in preparation for clinical trials."

02.2020 - 01.2021

Research fellow

Università di Pavia - Pavia

- Radiologic imaging analysis in diseases of the central and peripheral nervous system

01.2020 - 01.2021

Associate researcher

UCSF - University of California San Francisco - San Francisco

- Research projects in the field of Neuroinflammatory disorders (MS)
- international collaboration projects

Istruzione e Formazione

2019

Residency in Radiology (11/2019)
Università di Pavia - Istituto di Radiologia, Ospedale IRCCS San Matteo, Pavia

- Specialist in radiodiagnostics with a focus on neuroradiology
- Grade of 50/50 with honors with experimental thesis "Intersubject Variability and Normalization Strategies for Spinal Cord Total Cross-Sectional and Gray Matter Areas"

2019

Research Fellowship, UCSF - University of California San Francisco

- Research projects in the field of Neuroinflammatory disorders (MS)
- Participation in clinical activities (multidisciplinary meetings - reporting)

2014

Bachelor of Medicine and Surgery, University of Pavia - Pavia

- Graduation from medical school by discussing experimental thesis "L'MR Venography nella CCSVI: insufficienza venosa cronica cerebrospinale", riportando la votazione di 110/110 e lode.
- Internship in Neurology - Fondazione Mondino Istituto Neurologico Nazionale a Carattere Scientifico IRCCS, Pavia (2011)
- Internship in Radiology - Istituto di Radiologia, Ospedale IRCCS San Matteo, Pavia

2006

High School Diploma, Liceo Classico G. Peano - Tortona

- Grade of 100/100

Pubblicazioni

Scopus ID: 57189847029. Papers: 15. Citation: 115. H-index: 7.

- *Spinal Cord Atrophy Predicts Progressive Disease in Relapsing Multiple Sclerosis;* Bischof et al, Annals of Neurology 2022
- *Reply to Spinal cord atrophy is a preclinical marker of progressive MS,* Bischof et al, Annals of Neurology 2022
- *Multiple Sclerosis Is Rare in Epstein–Barr Virus–Seronegative Children with Central Nervous System Inflammatory Demyelination;* Nourbakhsh*, Cordano*, Asteggiano C* et al, Annals of Neurology 2021 (* co – first authors)
- *Intersubject Variability and Normalization Strategies for Spinal Cord Total Cross-Sectional and Gray Matter Areas;* Asteggiano C. et al, J Neuroimaging. 2019 Sep 30
- *Vessel wall magnetic resonance imaging in COVID-19-associated cryptogenic ischemic stroke:* Mazzacane et al, Eur J Neurol 2022
- *Cortically constrained shape recognition: Automated white matter tract segmentation validated in the pediatric brain*; Jordan K et al, J Neuroimaging 2021
- *Pilot Study on Quantitative Cervical Cord and Muscular MRI in Spinal Muscular Atrophy: Promising Biomarkers of Disease Evolution and Treatment?* Savini et al; Front Neurol. 2021
- *Neurite Orientation Dispersion and Density Imaging for Assessing Acute Inflammation and Lesion Evolution in MS;* Sacco S et al, AJNR Am J Neuroradiol. 2020
- *A proposal for a semiquantitative scoring system for lymphedema using Non-contrast Magnetic Resonance Lymphography (NMRL): Reproducibility among readers and correlation with clinical grading;* Franconeri A et al, Magn Reson Imaging. 2020
- *Brain MRI Predicts Worsening Multiple Sclerosis Disability over 5 Years in the SUMMIT Study;* Bakshi et al, Neuroimaging. 2020

- *MRI Measurement of Upper Cervical Spinal Cord Cross-Sectional Area in Children;* Papinutto N et al. J Neuroimaging. 2020
- *Is the fear of COVID-19 infection the same in all subjects?* Filice C et al, Int J Infect Dis. 2020
- *Corrigendum to MR microneurography and quantitative T2 and DP measurements of the distal tibial nerve in CIDP;* J Neurol Sci. 2019 May 15
- *MR microneurography and quantitative T2 and DP measurements of the distal tibial nerve in CIDP;* J Neurol Sci. 2019 May 15
- *Intra and Extracranial MR Venography: Technical Notes, Clinical Application and Imaging Development;* Behav. Neurol. 2016
- *Magnetic Resonance Lymphography: a reliable tool for diagnosis and semiquantitative grading of lymphedema in preview and follow-up of surgical treatments;* RSNA poster, 2017
- *Application of multi-shell NODDI to characterize acute and chronic MS lesions;* Scientific Video Poster presso ISMRM 05/2019, Montreal

Partecipazioni congressuali

Multiple participation in National and International conferences and webinars, including as a speaker, by invitation:

- L'urgenza in Radiologia - SIRM, Roma 12/2021;
- Imaging avanzato del sistema nervoso periferico - anatomia ecografica del sistema nervoso periferico di interventistica spinale ecoguidata: secondo corso teorico pratico a Siena 30/06/2022
- Advanced evaluation of peripheral nerve and muscle - Tuscany Meeting on spine and peripheral nerves, Siena 28-30 aprile 2022
- ECR Vienna 2023: MRI biomarkers for brain maturation in preterm infants after administration of melatonin

Competenze Personali

- Extensive experience in clinical and research application of MRI scanner, with extensive knowledge of Advanced Techniques (DTI, spectroscopy, perfusion studies and fRMN)
- Ability in applying post-processing algorithms of MRI images, acquired for both clinical and research purposes.
- Clinical-diagnostic experience using CT (encephalon and angio-CT) and conventional radiology.
- Clinical experience, accompanied by formative learning paths, in both Transcranial and Colordoppler ultrasound technique for the study of major intracranial vessels as well as in the functional assessment of foramen ovale patency by Bubble test and in the diagnosis of Parkinson's disease
- Clinical experience in the ultrasound study of the supra-aortic trunks
- Extensive experience in designing, drafting and writing Scientific papers
- Good knowledge of the fundamentals of Medical Statistics
- Knowledge of tractography principles, from post-processing to application in clinical and research settings, with experience in manual and automated segmentation techniques
- Past and ongoing scientific collaborations with UCSF (San Francisco, USA) and Johns Hopkins University (Baltimore, USA)
- Experience in following the training process of medical residents

Competenze Linguistiche

Italiano: native language

Inglese: B2

Certificazioni

- International BLS course - American Heart Association 11/2019

Appartenenza A Società Scientifiche

- SIRM (Società Italiana di Radiologia Medica e Interventistica)
- AINR (Associazione Italiana di Neuroradiologia)
- ESR (European Society of Radiology)

Pavia, 7/11/2023

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