

Curriculum Vitae



Mirko Avesani

Neurologist and Criminologist

Expert in Forensic Neurosciences (The NeuroLaw Project)

Personal details and contact information

Date of birth: 12th Sept 1974

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Presentation

Dr. Mirko Avesani is a medical doctor specialized in Neurology-Neurorehabilitation, expert in Neurophysiology and Neuropsychology, PhD in Neuroscience, with a close degree in law (Forensics Neurosciences) at University of Padua (“The Neurolaw Project”).

He works as Clinical and Forensic Neurologist, expert in Neurolaw.

He is member of the “NEED” (Neuroscience, Ethic and Law) study group of SIN-DEM (Italian Society of Neurology of Dementias).

He works as Neurologist at Neurology Division of Civil Hospital of Mantua, in its “Dementias Center”. In his almost twenty-years experience as medical doctor, and almost fifteen-years as neurologist, he is author of over than 15 publications on Scientific International Journals indexed on Pub Med and Scopus, over than 50 publications on Congress Acts and 1 publication on Chapter of book edited by In Tech. He won the first prize as best Researcher of the 13th European Congress of Neurophysiology (Istanbul, June 2008) with a Research Study on EEG-fMRI co-registration of patients affected by epilepsies of surgical interest and interictal slow wave discharges on EEG. In 2006, he won the first prize as best Researcher of 37th National Congress of SIN (Italian Society of Neurology) with a Research Study on application of EEG-fMRI co-registration.

Education

2013 – to date Graduate in law, Università degli Studi di Padova, specialization in Forensics Neurosciences (The NeuroLaw Project) with a particular focus on penal aspects of BPSD in Cognitive Impairments and Dementias

2006-2008 PhD in Neurosciences (curriculum: clinical neurophysiology and neurorehabilitation), Università degli Studi di Verona, discussing a thesis on continuous EEG-fMRI in patients affected by focal seizures and slow wave discharges on EEG

2000-2005 Postgraduate School of Neurology, Università degli Studi di Verona, Specialization in Neurology and Neurorehabilitation, discussing a thesis on continuous EEG-fMRI as presurgical evaluation of patients affected by drug resistant focal epilepsies

1993-1999 Graduate Medical Doctor, Università degli Studi di Verona, faculty of Medicine and Surgery, discussing a thesis on expression of perforin in Schwann Cells of patients affected by GBS and CIDP, with full marks

Work experience

2017-to date Staff Neurologist at Civil Hospital of Mantua, Division of Neurology, Dementias Center

2015-2017 Staff Neurologist at Dementias Center of AULSS 9 of Verona

2011-2014 Staff Neurologist at Civil Hospital of Venice, Division of Neurology, Neurodegenerative diseases Center

2009-2010 Staff Neurologist at Civil Hospital of Bussolengo (Verona), Division of Neurology, chief of Neurophysiology Service

2007-2009 Medical doctor of prison of Mantua

2000-2008 Medical doctor (emergency physician) at “Casa di Cura San Clemente” in Mantua

2000-2001 Medical Doctor (emergency physician) at “Casa Nogarè”, Hospital of Negrar (Verona)

2006-2009 Medical Doctor (emergency physician) at “Casa di Cura Solatrix“ Rovereto (Trento)

2006-2008 Assistant to research at Department of Neurosciences of University of Medicine of Verona , Service of Neurophysiology and Neurorehabilitation (Director: Prof. Fiaschi; Chief of Service: Prof. Paolo Manganotti)

Research activities

Co-ordinated with other colleagues a multicenter study on BPSD in Parkinson Disease (ICARUS study) at Division of Neurology of Civil Hospital of Venice (from 2011 to 2014)

Co-ordinated with other colleagues in a study of co-registration EEG-fMRI in epilepsies

Co-ordinated with other colleagues in a study of co-registration sEMG-fMRI in stroke patients treated with toxin botulin and neurorehabilitation

Co-ordinated with other colleagues in a study of cortical excitability after stroke with TMS

Co-ordinated with other colleagues in a study of drugs and motor recovery with TMS

Co-ordinated with other colleagues in a study of coregistration EEG-TMS during sleep (study of corticospinal excitability during sleep, using single and paired-pulse transcranial magnetic stimulation)

<http://www.dnbnm.univr.it/?ent=persona&id=3690&lang=it#tab-ricerca>

Co-ordinated with other colleagues (“NEED group” of Sin-DEM) in study of penal answerability of Cognitive Impairment and Dementias

Teaching Experience

2006-2008 Appointed for a teaching position on Neurology in the Course Degree for Physiotherapists at the University of Verona (Director: Prof. Antonio Fiaschi).

2016-2017 Appointed for a teaching position on Neuroforensics Sciences in the Course of Law at the University of Verona (Prof. Stefano Fuselli)

Publications

1) M. Avesani, F. Milanese, E. Formaggio, A. Gasparini, R. Cerini, L.G. Bongiovanni, R.

Pozzi Mucelli, A. Fiaschi, P. Manganotti. Continuous EEG-fMRI in presurgical evaluation of a patient affected by symptomatic seizures: BOLD activation linked to interictal epileptic discharges caused by cavernoma. *The Neuroradiology Journal*, 2008, vol. 21, n.2, pp. 183-191.

2) M. Avesani, E. Formaggio, S. Storti, F. Alessandrini, L.G. Bongiovanni, C. Cordioli, A. Beltramello, A. Fiaschi, P. Manganotti. fMRI in epilepsy with spike and wave activity evoked by eye closure: different BOLD activation in a patient with idiopathic partial epilepsy with occipital spikes and a control group. *The Neuroradiology Journal*, 2008, vol. 21, n.2, pp. 159-165.

3) M. Avesani, E. Formaggio, G. Fuggetta, A. Fiaschi, P. Manganotti. Corticospinal excitability in human subjects during nonrapid eye movement sleep: single and paired-pulse transcranial magnetic stimulation study. *Experimental Brain Research*, 2008, vol. 187, n.1, pp. 17-23.

4) P. Manganotti, E. Formaggio, F. Milanese, A. Gasparini, R. Cerini, L.G. Bongiovanni, R. Pozzi Mucelli, A. Fiaschi, M. Avesani. Continuous EEG-fMRI study in patients with partial epilepsy and focal interictal slow-wave discharges on EEG. *Magnetic Resonance Imaging*, Magn Reson Imaging. 2008, vol 26, n.8, pp. 1089-1100

- 5) E. Formaggio, S.F. Storti, M. Avesani, R. Cerini, F. Milanese, A. Gasparini, M. Acler, R. Pozzi Mucelli, A. Fiaschi, P. Manganotti. EEG and fMRI coregistration to investigate the cortical oscillatory activities during finger movement. *Brain Topography*, 2008, vol.21 ,n.2 ,pp.100-111
- 6) E. Formaggio, M. Avesani, S.F. Storti, R. Cerini, F. Milanese, A. Gasparini, M. Acler, R. Pozzi Mucelli, A. Fiaschi, P. Manganotti. Effect of a magnetic field (1.5T) on brain oscillatory activities. **The Neuroradiology Journal**, vol. 21, n.5 , 2008 , pp.629-636.
- 7) Del Felice A, Zanoni T, Avesani M, Formaggio E, Storti S, Fiaschi A, Moretto G, Manganotti P. EEG-fMRI coregistration in non-ketotic hyperglycemic occipital seizures. **Epilepsy Research**, vol. 85, n. 2-3, 2009, pp. 321-324
- 8) Manganotti P, Formaggio E, Storti SF, Avesani M, Acler M, Sala F, Magon S, Zoccatelli G, Pizzini F, Alessandrini F, Fiaschi A, Beltramello A. Steady-state activation in somatosensory cortex after changes in stimulus rate during median nerve stimulation. **Magnetic Resonance Imaging**, 2009, vol. 27, n. 9, pp. 1175-1186.
- 9) Passarin MG, Romito S, Avesani M, Alessandrini F, Petrilli G, Santini F, Bertolasi L, Musso A, Buffone CE, Ottavini S, Bovi P, Moretto G. Late-onset choreoathetotic syndrome following heart surgery. **Neurological Sciences**, vol 31, n. 1, 2010; pp 95-97.
- 10) Manganotti P, Acler M, Formaggio E, Avesani M, Milanese F, Baraldo A, Storti SF, Gasparini A, Cerini R, Pozzi Mucelli R, Fiaschi A. Changes in cerebral activity after decreased upper-limb hypertonus: an EMG-fMRI study. **Magnetic Resonance Imaging**, vol. 28, n. 5, 2010, pp 646-652
- 11) Minelli A, Bortolomasi M, Scassellati C, Salvoro B, Avesani M, Manganotti P. Effects of intravenous antidepressant drugs on the excitability of human motor cortex: a study with paired magnetic stimulation on depressed patients. *Brain Stimul.* vol. 3, n. 1, 2010, pp. 15-21.
- 12) Borelli P, Avesani M, Formaggio E, Storti SF, Zanoni T, Moretto G, Fiaschi A, Cerini R, Manganotti P. EEGfMRI as an useful tool to detect epileptic foci associated with secondary bilateral synchrony. **Seizure**, vol. 19, n. 9, 2010, pp.605-608.
- 13) Avesani M, Giacomuzzi S, Bongiovanni LG, Borelli P, Cerini R, Pozzi Mucelli R, Fiaschi A. EEG-fMRI evaluation of patients with mesial temporal lobe sclerosis. **Neuroradiol J.**, vol 27, n.1, 2014, pp 45-54.
- 14) Frisardi V, Faroni S, Bellani A, Biagi F, Galante E, Balzanelli A, Talassi E, Frittoli L, Capiluppi G, D'Angelis C, Tragnani A, Terzi D, Podavini E, Gazzoni G, Simoncelli G, Matarazzo C, **Avesani M**, et al. Improving the HealthCare of people with Dementia beyond the diagnosis: The “Carlo Poma Care Pathway” Study Protocol. *OBM Geriatrics*, 2019, Volume 3, issue 1

Publications in chapters to scientific-medical books

Mirko Avesani, Silvia Giacomuzzi, Antonio Fiaschi “**Neuroimaging of Epilepsy: EEG-fMRI in the Presurgical Evaluation of Focal Epilepsy**”, chapter 20 in the book entitled “**Functional Brain Mapping and the Endeavor to Understand the Working Brain**” Edited by Francesco Signorelli and Domenico

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