



Dott. Antonino Naro, Medico-Chirurgo, Specialista in Neurofisiopatologia,
Dottore di Ricerca in Neuroscienze

Dirigente Medico Neurologo c/o UOSD Stroke Unit, AOU Policlinico G. Martino,
Messina

Nato a Sant'Agata Militello (ME) il 15/06/80

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ESPERIENZA PROFESSIONALE

- **Gennaio 2021-ad oggi:** Dirigente Medico Neurologo c/o UOSD Stroke Unit – AOU Policlinico G. Martino, Messina
- **Marzo 2016-Febbraio 2020:** Responsabile Laboratorio di Neurofisiologia Clinica e Strumentale c/o IRCCS Centro Neurolesi Bonino-Pulejo, Messina.
- **Gennaio 2016-dicembre 2020:** Dirigente Medico Neurologo c/o IRCCS Centro Neurolesi Bonino Pulejo, Messina. Incarico professionale triennale di “Neurofisiologia Strumentale e Ricerca” c/o IRCCS Centro Neurolesi Bonino Pulejo, Messina (fino a dicembre 2021).
- **Agosto 2013-dicembre 2015:** Borsista di ricerca c/o IRCCS Centro Neurolesi “Bonino-Pulejo”, Messina.
- **01-09-2012 al 31-12-2015:** sostituzione specialistica ambulatoriale c/o ASP Messina, Distr. S. Agata Militello (566 ore/ 11 settimanali)
- **2010-2012:** Dottorato in Neuroscienze (Ricerca Clinica e Traslazionale in Neuroscienze ed Oncologia XXV ciclo, SSD MED/26) c/o U.O.C. Neurologia e Malattie Neuromuscolari del Policlinico Universitario G. Martino (Messina)
- **Ottobre 2008- giugno 2009:** Assistente Ricercatore c/o il Dipartimento di Fisiologia e Farmacologia della CUNY Sophie Medical School for Biomedical Education, New York, Responsabile: Dott.ssa: M.F. Ghilardi.
- **2006-2009:** specializzazione in Neurofisiopatologia c/o U.O.C. Neurologia e Malattie Neuromuscolari del Policlinico Universitario G. Martino (Messina) (già Neuropatologia).
- **2005-2006:** interno in Medicina Interna c/o U.O.C. di Medicina Interna del Policlinico Universitario G. Martino (Messina).

ISTRUZIONE E FORMAZIONE

- **2010-2012:** Dottore di Ricerca in “Ricerca clinica e translazionale in Neuroscienze ed Oncologia”, XXV ciclo, SSD MED/26 (OTTIMO in data 23/04/2013) presso U.O.C. Neurologia e Malattie Neuromuscolari (coordinatore: Prof. G. Vita; Tutor: Prof. P. Girlanda), U.O.S.D. di Neurofisiopatologia e disordini del movimento (Resp: Prof. P. Girlanda) A.O.U. Policlinico “G. Martino”, con tesi “La Stimolazione Associativa Appaiata

- ad alta frequenza (rPAS) modula l'eccitabilità corticospinale nell'uomo: studio TMS/EEG"
- **2006-2009:** Specializzazione in Neurofisiopatologia (50/50 con lode in data 30/10/2009; Specializzazione conseguita ai sensi del D.L. 8 agosto 1991 n. 257 e del D. Lgs. 368/99) presso Università degli studi di Messina, Facoltà di Medicina e Chirurgia, con tesi "Meccanismi fisiopatologici della fatica centrale", presso U.O.C. Neurologia e Malattie Neuromuscolari, D.A.I. di Neuroscienze, Scienze Psichiatriche ed Anestesiologiche, A.O.U. Policlinico "G. Martino"- Relatore: Prof. P. Girlanda.
 - **2008- 2009:** Assistente Ricercatore presso il Dipartimento di Fisiologia e Farmacologia della CUNY Sophie Medical School for Biomedical Education, New York, Responsabile: Dott.ssa: M.F. Ghilardi.
 - **2006:** Abilitazione all'esercizio della professione di Medico-Chirurgo (Sessione di Novembre 2005, con punteggio di 268/270 in data 22/02/2006) presso A.O.U. Policlinico "G. Martino"; iscrizione all'Albo professionale di Messina il 27/02/2006 al n. 9009.
 - **2000-2005:** Corso di Laurea in Medicina e Chirurgia tab. XVIII ter (110/110 con lode in data 28/07/2005) presso Università degli studi di Messina, Facoltà di Medicina e Chirurgia, con tesi "Studio elettrofisiologico della plasticità associativa" – Corso integrato di scienze neurologiche, DAI di Neuroscienze, Scienze Psichiatriche ed Anestesiologiche; Relatore: Prof. Paolo Girlanda; tutor: Prof. G. Vita, presso U.O.C. Neurologia e Malattie Neuromuscolari – A.O.U. Policlinico "G. Martino".
 - **2004-2005:** Studente interno presso U.O.C. Neurologia e Malattie Neuromuscolari, Tutor: Prof C. Messina, Prof. P. Girlanda, Prof. A. Quartarone.
 - **1995-1999:** Diploma di Maturità Classica (100/100) presso L.C.S. "L. Sciascia" – S. Agata Militello (ME).

COMPETENZE PERSONALI

Lingua madre: Italiano

Altre lingue:

	comprensione		parlato		produzione scritta
	ascolto	lettura	interazione	produzione	
Inglese	B2	C1	B2	B2	C1

Competenze comunicative

Possiedo buone competenze comunicative acquisite durante la mia esperienza di relatore di lavori scientifici e nei gruppi didattici interattivi in Neurofisiologia Clinica

Competenze organizzative e gestionali

Possiedo buone competenze organizzative acquisite durante la mia esperienza di responsabile nell'organizzazione dei gruppi di ricerca in neurofisiologia sperimentale. Sono stato il responsabile del gruppo di ricerca in neurofisiologia sperimentale e di neurostimolazione non invasiva presso l'IRCCS Centro Neurolesi Bonino Pulejo nel periodo 2016-2020. Nel medesimo periodo, responsabile del

Laboratorio di Neurofisiologia Clinica e Strumentale c/o IRCCS Centro Neurolesi “Bonino-Pulejo”, Messina.

Competenze professionali

Attività clinica e di ricerca in Neurologia e Neurofisiopatologia, specie nel settore delle malattie neuromuscolari, neurodegenerative, dei disordini di coscienza, e delle malattie cerebrovascolari.

- Principali mansioni, abilità professionali e responsabilità attuali:
 - Dirigente medico c/o UOSD Stroke Unit, AOU Policlinico G. Martino di Messina.
- Principali mansioni, abilità professionali e responsabilità precedenti:
 - Responsabile laboratorio di Neurofisiologia Clinica e strumentale: esami elettroneuromiografici (ENMG) e tecniche correlate (ENMG semplice, quantitativa, di singola fibra, per lo studio pavimento pelvico, tecniche riflessologiche, stima del numero di unità motorie -MUNE), elettroencefalografici (standard e HD-EEG) e potenziali evocati (BAEP, VEP, SEP, LEP, MEP, ERP); monitoraggio elettrofisiologico intraoperatorio.
- Attività di ricerca in Neuroscienze:
 - studio elettrofisiologico (Stimolazione Magnetica/Elettrica Transcranica e tecniche correlate, elettroencefalografia standard e HD-EEG) dei disordini del movimento, dei disturbi di coscienza, ed in ambito neuroriabilitativo, robotico e non.
 - Studio cinematico (sistemi guanto-sensori, tavole grafiche digitalizzate e tecniche affini) dei disordini del movimento ed in ambito neuroriabilitativo, robotico e non.

Competenze informatiche

Microsoft Office, Statview, Signal Analysis System, Motor Task Manager, Glove Analyzer System, Computer System Wacom Digital Tablet Analyzer, EEGlab, LORETA.

Competenze scientifiche

Neuroscienze di base, neuroplasticità, connettività cerebrale, analisi avanzata del segnale EEG e dei potenziali evocati ed evento-relati, stimolazione magnetica transcranica, high-density EEG, stimolazione elettrica transcranica, il tutto applicato al soggetto sano, paziente neurologico e con disordine di coscienza. Neuroscienze cliniche, Neurofisiopatologia Clinica e Sperimentale, con particolare riferimento a neuroplasticità, Sclerosi Multipla, Disordini del Movimento, Malattie Neurodegenerative e disordini di coscienza. Studio elettrofisiologico (Stimolazione Magnetica Transcranica e tecniche correlate, elettroencefalografia ad alta risoluzione) dei disordini del movimento e di coscienza. Studio cinematico (sistemi guanto-sensori, tavole grafiche digitalizzate e tecniche affini) dei disordini del movimento. Neuroriabilitazione robotizzata.

Autore su riviste nazionali ed internazionale impattate; Referee per riviste nazionali ed internazionali impattate (Frontiers journals; MDPI journals; Journal of Neuroscience Methods).

Relatore e/o moderatore a convegni di rilevanza nazionale

ULTERIORI INFORMAZIONI

Patente di guida B

Trial Clinici

- **2012-2014:** Trial terapeutico con terapia con Givinostat nella distrofia muscolare di Duchenne sponsorizzato da Italfarmaco.

Awards: Vincitore borsa giovane ricercatore SIN 2014 (Cagliari).

- **Guest Editor:**
 - Electronics (ISSN 2079-9292)
 - Brain Sciences (ISSN 2076-3425).
- **Review Editor**
 - Motor Neuroscience in Frontiers in Human Neuroscience
 - Neurorehabilitation in Frontiers in Human Neuroscience
- **Reviewer:**
 - MDPI Journals
 - Frontiers journals

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Google Scholar: https://scholar.google.it/citations?view_op=list_works&hl=it&user=1sDKHDQAAAAJ

PUBBLICAZIONI (202)

1. Maggio MG, Stagnitti MC, Rizzo E, Andaloro A, Manuli A, Bruschetta A, Naro A, Calabrò RS. Limb apraxia in individuals with multiple sclerosis: Is there a role of semi-immersive virtual reality in treating the Cinderella of neuropsychology? Mult Scler Relat Disord. 2022 Nov 9;69:104405. doi: 10.1016/j.msard.2022.104405. Epub ahead of print. PMID: 36417812.
2. Naro A, Calabrò RS. Improving Upper Limb and Gait Rehabilitation Outcomes in Post-Stroke Patients: A Scoping Review on the Additional Effects of Non-Invasive Brain Stimulation When Combined with Robot-Aided Rehabilitation. Brain Sci. 2022 Nov 7;12(11):1511. doi: 10.3390/brainsci12111511. PMID: 36358437; PMCID: PMC9688385.
3. Calabrò RS, Billeri L, Manuli A, Iacono A, Naro A. Applications of transcranial magnetic stimulation in migraine: evidence from a scoping review. J Integr Neurosci. 2022 Jun 7;21(4):110. doi: 10.31083/j.jin2104110. PMID: 35864762.
4. Raciti L, Pignolo L, Perini V, Pullia M, Porcari B, Latella D, Isgrò M, Naro A, Calabrò RS. Improving Upper Extremity Bradykinesia in Parkinson's Disease: A Randomized

- Clinical Trial on the Use of Gravity-Supporting Exoskeletons. *J Clin Med*. 2022 May 1;11(9):2543. doi: 10.3390/jcm11092543. PMID: 35566669.
5. Maggio MG, Naro A, De Luca R, Latella D, Balletta T, Caccamo L, Pioggia G, Bruschetta D, Calabrò RS. Body Representation in Patients with Severe Spinal Cord Injury: A Pilot Study on the Promising Role of Powered Exoskeleton for Gait Training. *J Pers Med*. 2022 Apr 11;12(4):619. doi: 10.3390/jpm12040619. PMID: 35455735; PMCID: PMC9030625.
 6. Bruschetta R, Maggio MG, Naro A, Ciancarelli I, Morone G, Arcuri F, Tonin P, Tartarisco G, Pioggia G, Cerasa A, Calabrò RS. Gender Influences Virtual Reality-Based Recovery of Cognitive Functions in Patients with Traumatic Brain Injury: A Secondary Analysis of a Randomized Clinical Trial. *Brain Sci*. 2022 Apr 12;12(4):491. doi: 10.3390/brainsci12040491. PMID: 35448022; PMCID: PMC9024763.
 7. Naro A, Billeri L, Lauria P, Manuli A, Calabrò RS. Toward Improving Functional Recovery in AIDS-associated Progressive Multifocal Leukoencephalopathy: A Single Case Pilot Study on a Novel Neuromodulation Approach. *Innov Clin Neurosci*. 2022 Jan-Mar;19(1-3):15-18. PMID: 35382071; PMCID: PMC8970235.
 8. Calabrò RS, Billeri L, Porcari B, Pignolo L, Naro A. When Two Is Better Than One: A Pilot Study on Transcranial Magnetic Stimulation Plus Muscle Vibration in Treating Chronic Pelvic Pain in Women. *Brain Sci*. 2022 Mar 15;12(3):396. doi: 10.3390/brainsci12030396. PMID: 35326352.
 9. Celesti A, Cimino V, Naro A, Portaro S, Fazio M, Villari M, Calabrò RS. Recent Considerations on Gaming Console Based Training for Multiple Sclerosis Rehabilitation. *Med Sci (Basel)*. 2022 Feb 11;10(1):13. doi: 10.3390/medsci10010013. PMID: 35225946; PMCID: PMC8884021.
 10. Naro A, Pignolo L, Bruschetta D, Calabrò RS. What about the role of the cerebellum in music-associated functional recovery? A secondary EEG analysis of a randomized clinical trial in patients with Parkinson disease. *Parkinsonism Relat Disord*. 2022 Feb 23;96:57-64. doi: 10.1016/j.parkreldis.2022.02.012. Epub ahead of print. PMID: 35220062.
 11. Naro A, Pignolo L, Calabrò RS. Brain Network Organization Following Post-Stroke Neurorehabilitation. *Int J Neural Syst*. 2022 Feb 9:2250009. doi: 10.1142/S0129065722500095. Epub ahead of print. PMID: 35139774.
 12. Maggio MG, Piazzitta D, Andaloro A, Latella D, Sciarrone F, Casella C, Naro A, Manuli A, Calabrò RS. Embodied cognition in neurodegenerative disorders: What do we know so far? A narrative review focusing on the mirror neuron system and clinical applications. *J Clin Neurosci*. 2022 Feb 5;98:66-72. doi: 10.1016/j.jocn.2022.01.028. Epub ahead of print. PMID: 35134659.
 13. Billeri L, Naro A, Corpina F, Ferlazzo M, Criaco F, Fugazzotto D. (2021). Quantitative EEG Analysis in COVID-19 Encephalopathy: Promising Findings from a Case Report. *J Neuroinfect Dis* 12: 364.
 14. Berenati M, Naro A, Calabrò C, Torrisi M, Cardali SM, Calabrò RS. Is Neuromuscular Electrical Stimulation Effective in Treating Severe Dysarthria: Insights from a Case

- Study. *Innov Clin Neurosci*. 2021 Oct-Dec;18(10-12):23-25. PMID: 35096478; PMCID: PMC8794476.
15. Naro A, Billeri L, Balletta T, Lauria P, Onesta MP, Calabrò RS. Finding the Way to Improve Motor Recovery of Patients with Spinal Cord Lesions: A Case-Control Pilot Study on a Novel Neuromodulation Approach. *Brain Sci*. 2022 Jan 17;12(1):119. doi: 10.3390/brainsci12010119. PMID: 35053862; PMCID: PMC8773706.
 16. Portaro S, Ciatto L, Raciti L, Aliberti E, Aliberti R, Naro A, Calabrò RS. A Case Report on Robot-Aided Gait Training in Primary Lateral Sclerosis Rehabilitation: Rationale, Feasibility and Potential Effectiveness of a Novel Rehabilitation Approach. *Innov Clin Neurosci*. 2021 Apr-Jun;18(4-6):15-19. PMID: 34980978; PMCID: PMC8667707.
 17. Calabrò RS, Morone G, Naro A, Gandolfi M, Liotti V, D'aurizio C, Straudi S, Focacci A, Pournajaf S, Aprile I, Filoni S, Zanetti C, Leo MR, Tedesco L, Spina V, Chisari C, Taveggia G, Mazzoleni S, Smania N, Paolucci S, Franceschini M, Bonaiuti D. Robot-Assisted Training for Upper Limb in Stroke (ROBOTAS): An Observational, Multicenter Study to Identify Determinants of Efficacy. *J Clin Med*. 2021 Nov 11;10(22):5245. doi: 10.3390/jcm10225245. PMID: 34830527; PMCID: PMC8622640.
 18. Manuli A, Maggio MG, Stagnitti MC, Aliberti R, Cannavò A, Casella C, Milardi D, Bruschetta A, Naro A, Calabrò RS. Is intensive gait training feasible and effective at old age? A retrospective case-control study on the use of Lokomat Free-D in patients with chronic stroke. *J Clin Neurosci*. 2021 Oct;92:159-164. doi: 10.1016/j.jocn.2021.08.013. Epub 2021 Aug 23. PMID: 34509244.
 19. Torrisi M, Maggio MG, De Cola MC, Zichittella C, Carmela C, Porcari B, la Rosa G, De Luca R, Naro A, Calabrò RS. Beyond motor recovery after stroke: The role of hand robotic rehabilitation plus virtual reality in improving cognitive function. *J Clin Neurosci*. 2021 Oct;92:11-16. doi: 10.1016/j.jocn.2021.07.053. Epub 2021 Jul 31. PMID: 34509235.
 20. Calabrò RS, Portaro S, Tomasello P, Porcari B, Balletta T, Naro A. Paving the way for a better management of pain in patients with spinal cord injury: An exploratory study on the use of Functional Electric Stimulation(FES)-cycling. *J Spinal Cord Med*. 2021 Aug 9:1-11. doi: 10.1080/10790268.2021.1961050. Epub ahead of print. PMID: 34369852.
 21. Impellizzeri F, Naro A, Basile G, Bramanti A, Gazia F, Galletti F, Militi D, Petralito F, Calabrò RS, Milardi D. Does cybersickness affect virtual reality training using the Computer Assisted Rehabilitation Environment (CAREN)? Preliminary results from a case-control study in Parkinson's disease. *Physiother Theory Pract*. 2021 Aug 7:1-9. doi: 10.1080/09593985.2021.1964117. Epub ahead of print. PMID: 34365911.
 22. Leonardi S, Maggio MG, Russo M, Bramanti A, Arcadi FA, Naro A, Calabrò RS, De Luca R. Cognitive recovery in people with relapsing/remitting multiple sclerosis: A randomized clinical trial on virtual reality-based neurorehabilitation. *Clin Neurol Neurosurg*. 2021 Jul 21;208:106828. doi: 10.1016/j.clineuro.2021.106828. Epub ahead of print. PMID: 34332269.
 23. Maggio MG, Naro A, Calatozzo P, et al. Rehabilitation of somatoparaphrenia with misoplegia: insights from a single case-pilot study. *J Integr Neurosci*. 2021;20(2):439-447. doi:10.31083/j.jin2002046

24. Calabrò RS, Pignolo L, Müller-Eising C, Naro A. Pain Perception in Disorder of Consciousness: A Scoping Review on Current Knowledge, Clinical Applications, and Future Perspective. *Brain Sci.* 2021 May 20;11(5):665. doi: 10.3390/brainsci11050665. PMID: 34065349.
25. De Luca R, De Cola MC, Leonardi S, Portaro S, Naro A, Torrisi M, Marra A, Bramanti A, Calabrò RS. How patients with mild dementia living in a nursing home benefit from dementia cafés: a case-control study focusing on psychological and behavioural symptoms and caregiver burden. *Psychogeriatrics.* 2021 May 18. doi: 10.1111/psyg.12721. Epub ahead of print. PMID: 34008297.
26. Naro A, Pignolo L, Lucca LF, Calabrò RS. An action-observation/motor-imagery based approach to differentiate disorders of consciousness: what is beneath the tip of the iceberg? *Restor Neurol Neurosci.* 2021 May 10. doi: 10.3233/RNN-201130. Epub ahead of print. PMID: 33998559.
27. Maresca G, Portaro S, Naro A, Crisafulli R, Raffa A, Scarcella I, Aliberti B, Gemelli G, Calabrò RS. Hippotherapy in neurodevelopmental disorders: a narrative review focusing on cognitive and behavioral outcomes. *Appl Neuropsychol Child.* 2020 Dec 1:1-8. doi: 10.1080/21622965.2020.1852084. Epub ahead of print. PMID: 33949903.
28. Billeri L, Naro A, Manuli A, Calabrò RS. Could pure agraphia be the only sign of stroke? Lessons from two case reports. *J Postgrad Med.* 2021 Apr 8. doi: 10.4103/jpgm.JPGM_1066_20. Epub ahead of print. PMID: 33835058.
29. Billeri L, Naro A. A narrative review on non-invasive stimulation of the cerebellum in neurological diseases. *Neurol Sci.* 2021 Mar 23. doi: 10.1007/s10072-021-05187-1. Epub ahead of print. PMID: 33759055.
30. Naro A, Maggio MG, Latella D, La Rosa G, Sciarrone F, Manuli A, Calabrò RS. Does embodied cognition allow a better management of neurological diseases? A review on the link between cognitive language processing and motor function. *Appl Neuropsychol Adult.* 2021 Mar 8:1-12. doi: 10.1080/23279095.2021.1890595. Epub ahead of print. PMID: 33683162.
31. De Luca R, Naro A, Colucci PV, Pranio F, Tardiolo G, Billeri L, Le Cause M, De Domenico C, Portaro S, Rao G, Calabrò RS. Improvement of brain functional connectivity in autism spectrum disorder: an exploratory study on the potential use of virtual reality. *J Neural Transm (Vienna).* 2021 Mar 6. doi: 10.1007/s00702-021-02321-3. Epub ahead of print. PMID: 33677622.
32. Maggio MG, Naro A, Manuli A, Maresca G, Balletta T, Latella D, De Luca R, Calabrò RS. Effects of Robotic Neurorehabilitation on Body Representation in Individuals with Stroke: A Preliminary Study Focusing on an EEG-Based Approach. *Brain Topogr.* 2021 Mar 4. doi: 10.1007/s10548-021-00825-5. Epub ahead of print. PMID: 33661430.
33. Calabrò RS, Billeri L, Ciappina F, Balletta T, Porcari B, Cannavò A, Pignolo L, Manuli A, Naro A. Toward improving functional recovery in spinal cord injury using robotics: a pilot study focusing on ankle rehabilitation. *Expert Rev Med Devices.* 2021 Mar 5:1-13. doi: 10.1080/17434440.2021.1894125. Epub ahead of print. PMID: 33616471.

34. De Luca R, Rifici C, Pollicino P, Di Cara M, Miceli S, Sergi G, Sorrenti L, Romano M, Naro A, Billeri L, Lauria P, Caminiti A, Bramanti P, Torrisi M. 'Online therapy' to reduce caregiver's distress and to stimulate post-severe acquired brain injury motor and cognitive recovery: A Sicilian hospital experience in the COVID era. *J Telemed Telecare*. 2021 Feb 3;1357633X21990195. doi: 10.1177/1357633X21990195. Epub ahead of print. PMID: 33535914.
35. Russo M, Maggio MG, Naro A, Portaro S, Porcari B, Balletta T, De Luca R, Raciti L, Calabrò RS. Can powered exoskeletons improve gait and balance in multiple sclerosis? A retrospective study. *Int J Rehabil Res*. 2021 Jan 29. doi: 10.1097/MRR.0000000000000459. Epub ahead of print. PMID: 33534272.
36. Calabrò RS, Manuli A, Naro A, Rao G. How Covid 19 has changed Neurorehabilitation in Italy: a critical appraisal. *Acta Biomed*. 2020 Nov 10;91(4):e2020143. doi: 10.23750/abm.v91i4.10172. PMID: 33525243.
37. Naro A, Calabrò RS, Nagamine T. FRONTIERS IN DETECTING CONSCIOUSNESS: THE GROWING USE OF EEG ANALYSIS. *Innov Clin Neurosci*. 2020 Jul 1;17(7-9):8-9. PMID: 33520397; PMCID: PMC7839660.
38. Calabrò RS, Manuli A, Portaro S, Naro A, Maggio MG, De Luca R. Sildenafil induced sexual aggression: coincidence, rarity, or under-reported side effect? *Int J Impot Res*. 2021 Jan 26. doi: 10.1038/s41443-021-00410-1. Epub ahead of print. PMID: 33500547.
39. Maggio MG, Tripoli D, Porcari B, Manuli A, Filoni S, Naro A, Eschweiler M, Calabrò RS. How may patients with MS benefit from using music assisted therapy? A case-control feasibility study investigating motor outcomes and beyond. *Mult Scler Relat Disord*. 2020 Dec 24;48:102713. doi: 10.1016/j.msard.2020.102713. Epub ahead of print. PMID: 33387863.
40. De Luca R, Maresca G, Balletta T, Cannavò A, Leonardi S, Latella D, Maggio MG, Portaro S, Naro A, Calabrò RS. Does overground robotic gait training improve non-motor outcomes in patients with chronic stroke? Findings from a pilot study. *J Clin Neurosci*. 2020 Nov;81:240-245. doi: 10.1016/j.jocn.2020.09.070. Epub 2020 Oct 15. PMID: 33222923.
41. Naro A, Billeri L, Manuli A, Balletta T, Cannavò A, Portaro S, Lauria P, Ciappina F, Calabrò RS. Breaking the ice to improve motor outcomes in patients with chronic stroke: a retrospective clinical study on neuromodulation plus robotics. *Neurol Sci*. 2020 Nov 6. doi: 10.1007/s10072-020-04875-8. Online ahead of print. PMID: 33159273
42. Naro A, Calabrò RS. Towards New Diagnostic Approaches in Disorders of Consciousness: A Proof of Concept Study on the Promising Use of Imagery Visuomotor Task. *Brain Sci*. 2020 Oct 17;10(10):E746. doi: 10.3390/brainsci10100746. PMID: 33080823.
43. De Luca R, Maggio MG, Naro A, Portaro S, Cannavò A, Calabrò RS. Can patients with severe traumatic brain injury be trained with cognitive telerehabilitation? An inpatient feasibility and usability study. *J Clin Neurosci*. 2020 Sep;79:246-250. doi: 10.1016/j.jocn.2020.07.063. Epub 2020 Aug 17. PMID: 33070905
44. Naro A, Maggio MG, Leo A, Calabrò RS. Multiplex and Multilayer Network EEG Analyses: A Novel Strategy in the Differential Diagnosis of Patients with Chronic Disorders of Consciousness. *Int J Neural Syst*. 2020 Oct 9:2050052. doi: 10.1142/S0129065720500525. Epub ahead of print. PMID: 33034532.

45. Floridia D, Cerra F, Corallo F, Di Cara M, Spartà S, Nania G, Bramanti A, Bramanti P, **Naro** A. Effectiveness of high-frequency cervical spinal cord stimulation in the treatment of refractory trigeminal neuropathy: A case report. *Medicine (Baltimore)*. 2020 Oct 2;99(40):e22304. doi: 10.1097/MD.00000000000022304. PMID: 33019405.
46. Calabrò RS, Filoni S, Billeri L, Balletta T, Cannavò A, Militi A, Milardi D, Pignolo L, **Naro** A. Robotic Rehabilitation in Spinal Cord Injury: A Pilot Study on End-Effectors and Neurophysiological Outcomes [published online ahead of print, 2020 Sep 11]. *Ann Biomed Eng*. 2020;10.1007/s10439-020-02611-z. doi:10.1007/s10439-020-02611-z
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PARTECIPAZIONE A CONVEGNI (COME RELATORE E/O MODERATORE)

Cefalee e Dolore Neuropatico: Incontro tra Neurologi e Medici di Medicina Generale
Aggiornamenti in Tema di Certificato Medico
Dal Dolore Neuropatico al Back Pain Complicato
La Privacy ed Il Medico
Vecchie e Nuove Dipendenze
Medico-Paziente: Rapporto Fiduciario
Problem Solving in Ambito Sanitario
Malattie Cerebro-Cardiovascolari Croniche. Stato Dell'arte
Management Globale sul Paziente Parkinsoniano
Aggiornamento in Tema Epilessia: dall'infanzia all'età Adulta
XLV Congresso Nazionale della SIN (comunicazione orale)
Cefalea: Stato dell'arte
Congresso Primavera dell'OMCeOME
Neuroriabilitazione Robotica: dalla Ricerca alla Pratica Clinica
Sclerosi Multipla Update
HTA
Patologie Neurologiche Croniche
HTA nelle ASP
Diagnostica per Immagini DOC
Trauma Cranico
Cefalea: Stato dell'arte
Dolore Neuropatico
Le Neuropatie Diabetiche Dolorose
Aggiornamenti dal BMJ Stroke Ischemico
Forum Peripheral Neuropathies
SIN Regionale
Nuovi Approcci e Nuove Sfide nella Terapia del Dolore
Neurologia: l'innovazione che Avanza
Sicurezza, Diagnostica e Ricerca in RMN: dal 3T alle Nuove Frontiere
71° Congresso Nazionale della SIAI (comunicazione orale)
Management del Paziente affetto da GCA
Cefalee Non Eemicraniche ad Alta Incidenza Funzionale
Il Volto Non Neurologico della Sclerosi Multipla
Inglese per Medici
Manuale Teorico-Pratico di Elettroencefalografia
Approccio Diagnostico-Terapeutico e Scelte Nelle Malattie Neuromuscolari
Diagnostica Clinica Differenziale delle Cefalee
La Riabilitazione Cognitiva: Evidenze e Nuovi Percorsi
Innovazioni Tecnologiche in Riabilitazione
Nuove prospettive nella gestione della SLA: dalla patogenesi al trattamento riabilitativo
Emergenza Sanitaria da Nuovo Coronavirus SARS CoV-2: Preparazione e Contrasto
Sintomi e Percorsi Diagnostici in Medicina Eziologia - Indagini -Diagnostica Differenziale
Ipotiroidismo: Aggiornamenti e Nuove Acquisizioni Terapeutiche
Il Paziente Anziano: i Nuovi Anticoagulanti Orali Diretti

L'ictus ischemico acuto: il trattamento endovascolare

Update sull'ictus cardioembolico

Update sull'ictus aterotrombotico

Cause rare di ictus



Si acconsente, ai sensi e per gli effetti degli artt. 13 e 23 del D. L.gs. n. 196/2003, con la sottoscrizione del presente modulo, al trattamento dei dati personali secondo le modalità e nei limiti di cui all'informativa allegata.

