

Matilde Leonardi M.D.

PERSONAL INFORMATION

Name	Matilde Leonardi
Telephone	+39 2 23942511 – secretariat 2521
E-mail	matilde.leonardi@istituto-besta.it
Nationality	Italian

WORK EXPERIENCE

- | | |
|--|---|
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer Type of business or sector | 2001 - ongoing
Fondazione IRCCS Istituto Neurologico Carlo Besta |
| <ul style="list-style-type: none">• Occupation or position held• Main activities and responsibilities | National Research and Health Institute
Director of Neurology, Public Health, Disability Unit - Coma Research Centre
Developing and carrying out research projects related to neurology, disability, ageing, public health, ICF (WHO's International Classification of Functioning, Disability and Health).
Co-ordinator of several EU- and national research projects.
WHO and EU liaison. Director of WHO Italian Collaborating Centre-Research Branch Besta |
| <ul style="list-style-type: none">• Dates (from - to)• Name and address of employer• Type of business or sector | 2005 - ongoing
Università Cattolica del Sacro Cuore di Milano
University |
| <ul style="list-style-type: none">• Occupation or position held• Main activities and responsibilities | Professor on annual contract

Lecturer in <i>Neuropsychiatry, Disability and Public Health</i> for the Second level degree course in 'Pedagogy for disability and marginality' |
| <ul style="list-style-type: none">• Dates (from – to)• Name and address of employer• Type of business or sector• Tipo di impiego• Main activities and responsibilities | 1991 - 1997
World Health Organization, Geneva, CH

International Body
WHO Medical Officer
Medical Officer in Evidence and Information for Policy Cluster, CAS Unit. WHO temporary Advisor for the Division of Mental Health and Prevention of Substance Abuse of WHO for Neurology and Neuropediatric areas. |

- Dates (from – to) 1989 – 2001
- Name and address of employer Ospedale Martini, Torino
- Type of business or sector Hospital
- Occupation or position held Assistant Pediatrician, Pediatric and Neonatology Division
- Main activities and responsibilities Clinical activities

EDUCATION

- Dates (from – to) 2022
- Name and address Borsa Italiana, Dla Piper, Egon Zehnder e Valore D
- Main subjects/
professional skills In The Boardroom 4.0: governance, legal & compliance, tecnologia e industria 4.0, leadership, negoziazione e gestione del capitale umano
- Title of qualification Certificato di formazione executive per promuovere la diversità nei Consigli d'Amministrazione

- Dates 2018 - 2019
- University / Centro di Ateneo di Bioetica Università Cattolica del Sacro Cuore
- Main subjects Advanced Course in “Disability Manager in the workplace”
- Title of qualification Certificate by Regione Lombardia for Disability Manager: expert in inclusion of people with disabilities in the work place

- Dates 2014
- University / Bocconi University – Milan
- Main subjects/
professional skills Management of Health Systems
- Title of qualification Master in Management of Health Systems

- Dates 2008
- University / Università Cattolica del Sacro Cuore di Milano
- Main subjects/
professional skills Bioethics
- Title of qualification Certificate of Advanced Specialist Course in Bioethics

- Dates 2005
- University / Università Cattolica del Sacro Cuore di Milano
- Main subjects/
professional skills Bioethics
- Title of qualification Certificate of Basic Specialist Course in Bioethics

- Dates 1995-1999
- University / Università degli studi dell’Aquila
- Main subjects/ Neurology
- professional skills
- Title of qualification Specialization in Neurology cum laude

- Dates 1994
- University Università degli studi di Chieti
- Professional skills Pediatric Neurology
- Title of qualification Postgraduate specialization in Pediatric Neurology cum laude

- Dates 1991
- University/Organization Università degli Studi di Modena
- Main subjects/ Neonatology
- Title of qualification Postgraduate specialization in Neonatology cum laude

- Dates 1986- 1990
- University Università degli Studi di Modena
- Main subjects/professional Paediatrics
- skills
- Title of qualification Specialization in Paediatrics cum Laude

- Dates 1986
- University / Università degli studi di Modena
- Professional skills Medicine
- Title of qualification Degree, Medical Doctor cum laude

SKILLS AND PERSONAL ABILITIES

MOTHER TONGUE

ITALIAN

ADDITIONAL LANGUAGES

ENGLISH

- Reading
- Writing
- Speaking

FLUENT
FLUENT
FLUENT

FRENCH

- Reading
- Writing
- Speaking

FLUENT
FLUENT
FLUENT

SPANISH

- Reading
- Writing
- Speaking

GOOD
BASIC
BASIC

UNIVERSITY

- National Academic Qualification as Full Professor of Physical medicine and Rehabilitation **06/F4 Medicina fisica e riabilitativa**
- National Academic Qualification as Associate Professor of Physical medicine and Rehabilitation **06/F4 Medicina fisica e riabilitativa**
- National Academic Qualification as Associate Professor of Neurology **06/D6 Neurologia.**

**MEMBERSHIPS,
APPOINTMENTS ETC.**

- Elected Chair Communication Committee of the European Academy of Neurology- EAN (June 2022) and Board member
- World Federation for NeuroRehabilitation – WFNR - Board of Directors member (October 2020)
- FEAN - FELLOW of the European Academy of Neurology – EAN – (September 2020)
- Co-Chair Neurological essential services Group – WHO NEUROCOVID Forum (June 2020)
- Co Chair Global COVID Neuro Research Coalition task force on neurological services.
- Appointed by the Italian Ministry of Health as Italian Excellence in Research 2019 within the 100 Italian Excellences 2019
- Appointed by SIN (Italian Society of Neurology) as member of the EAN Scientific Panel Coma and chronic disorders of consciousness for 2018 – today
- Co-chair of the WHO Functioning and Disability Reference Group (FDRG) (2017-2020)
- Member of the Advisory Board of Cariplo Foundation for the project “District of Rehabilitation”
- Member of the Council of European Forum for Research in Rehabilitation (EFRR) since 2013
- Member of the National Observatory on the condition of People with Disabilities and monitoring of UNCRPD, Ministry of Labour and Welfare; Chair of the Scientific Committee 2010-2013
- Italian representative to the Council of Europe’s drafting Committee on protecting and promoting the rights of women and girls with disabilities (CAHPAH-WGD). 2011
- Member of the Pontificia Academia Pro Vita since 2011
- Member of the regional Advisory Board on Welfare established by Regione Lombardia in 2010
- Member of the Study Group on Vegetative State and Minimal Conscience State of the Italian Ministry of Labour, Health and Welfare (2008-2009)
- Director of WHO-Collaborating Centre Research Branch at Fondazione Carlo Besta
- Scientific Coordinator of the University Course in Disability-Case Management of the Università Cattolica del Sacro Cuore di Milano

- Member of the Board of Directors of the Bioethics Centre of the Catholic University of the Sacred Heart (2007- present and re-confirmed December 2022)
- Member of technical Board of Lombardy Region on TBI
- From 2001 to 2019 EBC WHO liaison” European Brain Council, Bruxelles
- Member of WHO-FIC Functioning and Disability Reference Group (FDRG) (2001-present)
- Co-Chair of WHO-FIC Implementation Committee
- 2004 Member of the European expert panel on “Environment e Neurodevelopmental disorders”
- Member of a European Commission’s evaluators’s panel on projects in the following areas: burden of disease, disability, public health and welfare policies, ageing, neuroscience, research development
- Founding Member (1997) of Disability Italian Network;
- Member of the Evaluation and Advisory Board of EuroMyasthenia Network
- Delegate of the Italian Society for Headache Studies at WHO
- Founder and Vice President of FIAN – Italian Federation of Neurological Patients’ Associations
- Founding Member of the Italian Headache League (LIC)
- 2003 – 2006 Consultant to the Labour and Welfare Ministry on disability issues
- 2002 - 2007 Co-chair of the WHO International Group on children and disability that developed the ICF Children and Youth version (ICF-CY).
- 2002-2005 Member of the “Woman’s Health Commission” of the Ministry of Health
- Member of the Italian Neurological Society – SIN
- Member of the Italian NeuroRehabilitation Society – SIRN
- 2004-present Chair SIG- Special interest Group on measurement and assessment of World Federation of Neurorehabilitation- WFNR

Membership of Editorial Boards

- 2013 Member of the Editorial Board of *BioMed Research International* (Rehabilitation subject area)
- 2012 – ongoing Member of the Editorial Board of *Disability & Rehabilitation*
- 2008- ongoing Member of the Editorial Board of the *International Journal of Rehabilitation Research*
- 2002-2009 Member of the Editorial Board of the *Journal of Headache and Pain* (Public Health Section Editor)

- 1994-2001 associate editor of the quarterly publication *Bollettino OMS di Salute Mentale e Neuroscienze*. Ed F. Folini, Italy.

List of international and national scientific research projects where M. Leonardi has participated with her Unit as Coordinator or Partner

PNRR 2023-2024 WOB - Window On the Brain: Diagnostic, therapeutic, and prognostic sonication of patients with Disorders of Consciousness". Coordinated by Dr Leonardi on a call done by MoH with funds from Europe for the PNRR Piano Nazionale di ripresa e resilienza

SeeMyLife – Holistic mixed approaches to capture the real life of children with rare eye diseases – progetto finanziato da Ministero della Salute call ERANET EJP-RD 2021 (2022 – 2025)

GrowDMD – Growing into adulthood with Duchenne Muscular Dystrophy – comparing patient experiences and systems to optimize care – progetto finanziato da Ministero della Salute call ERANET EJP-RD 2021 (2022 – 2025)

AMPEL – Artificial intelligence facing Multidimensional Poverty in Elderly (2021-2023)

Progetto EMPOWER: The European platform to Promote Wellbeing and Health in the workplace – Funding source: European Commission (2020-2023)

TAPAS IN AGING PROJECT: Time and Places and Space in Aging – funding source: Fondazione Cariplo (2019 – 2021)

Project: A randomized clinical trial on the efficacy and cost-efficacy of adding on a Mindfulness-based therapy to standard medical prophylaxis in the treatment of patients with Chronic Migraine associated to Medication Overuse following structured withdrawal: the Mind-CM study – funded by Italian Ministry of Health (2018-2021)

Project: Pilot Study on sleep pathologies treatments in patients with Vegetative and Minimally Conscious State diagnosis for improving Consciousness level: the STRIVE project – funded by Ministry of Health (2018-2021)

Project: I controlli periodici (follow-up) dopo la diagnosi e le terapie in pazienti liberi da malattia e asintomatici: verso una personalizzazione delle strategie di follow-up – funded by Regione Lombardia, coordinated by Fondazione IRCCS Istituto Nazionale dei Tumori, Dr. Leonardi WP Leader workability area for patients with cancer (2019-2021)

JOINT ACTION CHRODIS Plus – Funding source: European Commission (2017-2020)

Project: Lavoro e disabilità: Equilibrio tra capacità, funzionalità e fattori ambientali – riflessioni e strumenti per il Disability Management – Funding source: Provincia Monza e Brianza (2017-2018)

PATHWAYS - Participation To Healthy Workplaces And inclusive Strategies in The Work Sector. Funding source: Chafea, European Commission (2015-2018)

ATHLOS - Ageing Trajectories of Health: Longitudinal Opportunities and Synergies. Funding Source: European Commission (2015-2020)

IDAGIT- Identification of Determinants of Health Aging in Italy. Funding Source: Italian Ministry of Health (2014-2017)

CCM INCARICO – A model of health and social integration of patients with disorder of conscience. Funding Source: Italian Ministry of Health, Centre for Disease Prevention and Control (2012-2015)

MARATONE - Marie Curie, Mental Health training through Research Network in Europe- Funding Source: European Commission (2013-2016)

Project DOSAGE Functioning and disability measure of AGEing people with Down syndrome: the creation of an instrument for a National and European implementation. Funding Source: Fondation Jerome Lejeune, Paris (2013-2015).

INAIL Multiple Sclerosis, Disability and Labour. Funding Source: INAIL (Italian government agency for the insurance against work-related injuries) (2012-2014).

CCM COTEAM Management models of follow-up of patients outliving complex pathological conditions in their transition from childhood into adulthood. Funding Source: Italian Ministry of Health, Centre for Disease Prevention and Control (2012-2014).

START Up Coma Research Centre (Research on diagnosis and prognosis of disorders of consciousness). Funding Source: Lombardy Region (2010-2013).

PRECIOUS- Follow-up of patients with acquired brain injury: mapping and implementation of care and management pathways. Funding Source: Italian Ministry of Health, Centre for Disease Prevention and Control. (2010-2013).

COURAGE in EUROPE- Collaborative Research on Ageing in Europe. Funding Source: European Commission. (2009-2012).

RICHE – a platform and inventory for child health research in Europe – Funding Source: European Commission (2010-2013).

PARADISE – a European coordination action on psychosocial factors relevant to Brain Disorders in Europe. Funding Source: European Commission (2010-2013)

MURINET Multidisciplinary Research Network on Health and Disability in Europe. Funding Source: European Commission – Marie Curie Actions (2007-2010).

MHADIE (Measuring Health and Disability in Europe: supporting policy development). Funding Source: European Commission (2005-2008).

National Project on Functioning and Disability in People with Vegetative State and minimally Conscious State. Funding Source: Italian Ministry of Health, Centre for Disease Prevention and Control (2009-2010).

Development of a national system for the assessment of disability based on ICF classification.

Funding Source: Italian Ministry of Health, Centre for Disease Prevention and Control (2008-2010).

Treatment and Care of children with neuro-oncological pathologies: a pilot project for outlining multidisciplinary pathways using ICF classification. Funding Source: Italian Ministry of Health (2007-2008).

Volunteer work and disability in Italy: defining of care needs and identifying health-social pathways using ICF classification. Funding Source: Italian Ministry of Health (2005-2007).

PSICHIATRY AND ICF : Funding Source: Lombardy Region (2005-2007).

ICF and obesity Funding Source: Italian Auxological Institute (2006-2007).

ISPESL Development of methodologies for the assessment of work-related functional abilities and limitations in individuals with neurodegenerative disorders. Funding Source: ISPESL – Italian Institute for Prevention and Safety in work environment (2005-2007)

E-Pub

1. Schiavolin S., Mariniello A., Broggi M., Abete-Fornara G., Bollani A., Bottini,G.;Querzola,M,Scarpa,P.;Casarotti,A.;DeMichele,S., Isella V., Mauri I., Maietti A. Viramonti V., Orru M., Pertichetti M., Pini E., Regazzoni R., Subacchi S., Ferroli P., **Leonardi M.** Patient-reported outcome and cognitive measures to be used in vascular and brain tumor surgery: proposal for a minimum set. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology* 2022; E-Pub
2. Guastafierro,E.;Toppo,C.;Corso,B.;Romano,R.;Campioni,R.;Brambilla,E.;Facchini,C.;Bordoni,S.;**Leonardi,M.** Social Network and Environment as Determinants of Disability and Quality of Life in Aging: Results From an Italian Study. *Frontiers in Medecine* 2022; E-Pub
3. Bassetti,C.L.A.;Endres,M.;Sander,A.;Crean,M.;Subramaniam,S.;Carvalho,V.;Di Liberto,G.;Franco,O. H.;Pijnenburg,Y.;**Leonardi,M.**;Boon,P. The European Academy of Neurology Brain Health Strategy: One brain, one life, one approach. *European journal of neurology* 2022; E-Pub

Articles

1. Barmpas,P.;Tasoulis,S.;Vrahatis,A.G.;Georgakopoulos,S.;Anagnostou,P.;Prina,M.;Ayuso-Mateos,J.L.;Bickenbach,J.;Bayes,I.;Bobak,M.;Caballero,F.F.;Chatterji,S.;Egea-Cortés,L.;García-Esquinas,E.;**Leonardi,M.**;Koskinen,S.;Koupil,I.;Paja,K. A.;Prince,M.;Sanderson,W.;Scherbov,S.;Tamosiunas,A.;Galas,A.;Haro,J.M.;Sanchez-Niubo,A.;Plagianakos,V. P.;Panagiotakos,D. A divisive hierarchical clustering methodology for enhancing the ensemble prediction power in large scale population studies: the ATHLOS project. *Health information science and systems* 2022; 022-00171-1. eCollection
2. Raggi,A.;**Leonardi,M.**;Sacco,S.;Martelletti,P. Migraine Outcome Should Not Be Used to Determine Diagnosis, Severity, and Therapy: Moving Towards a Multiparametric Definition of Chronicity. *Pain and therapy* 2022; 331-339
3. Lutkenhoff,E. S.;Nigri,A.;Rossi Sebastiano D, Sattin D, Visani E, Rosazza C, D'Incerti,L.;Bruzzzone,M. G.;Franceschetti,S.;**Leonardi,M.**;Ferraro,S.;Monti,M. M. EEG Power spectra and subcortical pathology in chronic disorders of consciousness. *Psychological medicine* 2022; 1491-1500

4. Steiner,T.J.;Birbeck,G.L.;Jensen,R.H.;Martelletti,P.;Stovner,L.,UluduzD, **Leonardi,M.**;Olesen,J.;Katsarava,Z. The Global Campaign turns 18: a brief review of its activities and achievements. *The journal of headache and pain* 2022; 49: 022-01420-0
5. Cacciatore,M.;Raggi,A.;Pilotto,A.;Cristillo,V.;Guastafierro,E.;Toppo,C.;Magnani,F. G.;Sattin,D,Mariniello,A.;Silvaggi,F.,Cotti Piccinelli,S.;Zoppi,N.;Bonzi,G.;Gipponi,S.;Libri,I.;Bezzi,M.;Martelletti,P.;**Leonardi,M.**;Padovani,A . Neurological and Mental Health Symptoms Associated with Post-COVID-19 Disability in a Sample of Patients Discharged from a COVID-19 Ward: A Secondary Analysis. *International journal of environmental research and public health* 2022; 4242
6. Mariniello,A.;Schiavolin,S.;Magnani,F.;Cristillo,V.;Piccinelli,S, Zoppi,N.;Bonzi,G.;Sattin,D.;Silvaggi,F.;Raggi,A.;Cacciatore,M.;Guastafierro,E.;Toppo,C.;Gipponi, S.;Libri,I.;Bezzi,M.;**Leonardi,M.**;Pilotto,A.;Padovani,A.Neurological involvement associated with COVID-19 disease: a study on psychosocial factors. *Neurological sciences : official journal of the Italian Neurological Society and of the Italian Society of Clinical Neurophysiology* 2022; 2187:2193
7. Schiavolin,S.;Mariniello,A.;Broggi,M.;DiMeco,F.;Ferroli,P.;**Leonardi,M.**Preoperative nonmedical predictors of functional impairment after brain tumor surgery. *Support.Care Cancer* 2022; 3441:3450
8. Raggi,A.;Monasta,L.;Beghi,E.;Caso,V.;Castelpietra,G.;Mondello,S.;Giussani,G.;Logroscino,G.;Magnani,F, Piccininni,M.;Pupillo,E.;Ricci,S.;Ronfani,L.;Santalucia,P.;Sattin,D.;Schiavolin,S.;Toppo,C.;Traini,E .;Steinmetz,J.;Nichols,E.;Ma,R.;Vos,T.;Feigin,V.;**Leonardi,M.** Incidence, prevalence and disability associated with neurological disorders in Italy between 1990 and 2019: an analysis based on the Global Burden of Disease Study 2019. *Journal of neurology* 2022; 2080:2098
9. Medina,J.P.;Nigri,A.;Stanziano,M.;D'Incerti,L.;Sattin,D.;Ferraro,S.;Rossi Sebastiano,D.;Pinardi,C.;Marotta,G.;**Leonardi,M.**;Bruzzone,M. G.;Rosazza,C. Resting-State fMRI in Chronic Patients with Disorders of Consciousness: The Role of Lower-Order Networks for Clinical Assessment. *Brain sciences* 2022; 355
10. Visani,E.;Luria,G.;Sattin,D.;Rossi Sebastiano D, Ferraro S, Panzica F, **Leonardi,M.**;Franceschetti,S. Entropy Metrics Correlating with Higher Residual Functioning in Patients with Chronic Disorders of Consciousness. *Brain sciences* 2022; 332
11. Sattin,D.;Magnani,F. G.;Cacciatore,M.;**Leonardi,M.** Towards a New Assessment Tool for Caregivers of Patients with Disorders of Consciousness: The Social and Family Evaluation Scale (SAFE). *Brain sciences* 2022; 323
12. Silvaggi,F.;Silvani,A.;Lamperti,E. A.;**Leonardi,M.** Pathways of follow-up care in an Italian center: retrospective study on patients with gliomas II and III. *Neurol.Sci.* 2022; 1303:1310
13. Cristillo,V.;Pilotto,A.;CottiPiccinelli,S.;Bonzi,G.;Canale,A.;Gipponi,S.;Bezzi,M.;**Leonardi,M.**;Padovani,A.;Neuro Covid Next Study group. Premorbid vulnerability and disease severity impact on Long-COVID cognitive impairment. *Aging clinical and experimental research* 2022; 257:260
14. Triki,C. C.;**Leonardi,M.**;Mallouli,S. Z.;Cacciatore,M.;Karlshoej,K. C.;Magnani,F. G.;Newton,C. R.;Pilotto,A.;Saylor,D.;Westenberg,E.;Walsh,D.;Winkler,A. S.;Thakur,K. T.;Okubadejo,N. U.;Garcia-Azorin,D. Global survey on disruption and mitigation of neurological services during COVID-19: the perspective of global international neurological patients and scientific associations. *Journal of neurology* 2022; 26:38
15. Monasta,L.; Alicandro,G.; Pasovic,M.; Cunningham,M.; Armocida,B.; Murray,C.J.L.; Ronfani,L.; Naghavi,M.; GBD 2019 Italy Causes of Death Collaborators. Redistribution of garbage codes to underlying causes of death: a systematic analysis on Italy and a comparison with most populous Western European countries based on the Global Burden of Disease Study 2019. *Eur J Public Health* 2022; 456:462
16. Armocida,B.; Monasta,L.; Sawyer,S.; Bustreo,F.; Segafredo,G.; Castelpietra,G.; Ronfani,L.; Pasovic,M.; Hay,S.; GBD 2019 Europe NCDs in Adolescents Collaborators; Perel,P.; Beran, D. Burden of non-communicable diseases among adolescents aged 10-24 years in the EU, 1990-2019: a systematic analysis of the Global Burden of Diseases Study 2019. *Lancet Child Adolesc. Health* 2022; 367:383
17. Ferroli P, Vetrano I G, Schiavolin S, Acerbi F, Zattra Costanza Maria, Schiariti M, **Leonardi M**, Broggi M. Brain Tumor Resection in Elderly Patients: Potential Factors of Postoperative Worsening in a Predictive Outcome Model. *Cancers (Basel)* 2021; 13(10): 2320

18. Schiavolin S, Mariniello A, Broggi M, Acerbi F, Schiariti M, Franzini A, Di Meco F, Ferroli P, **Leonardi M**. Characteristics of Patients Returning to Work After Brain Tumor Surgery. *Frontiers in Human Neuroscience* 2021; 14: 609080
19. Schiavolin S, Raggi A, Scaratti C, Toppo C, Silvaggi F, Sattin D, Broggi M, Ferroli P, **Leonardi M**. Outcome Prediction in Brain Tumor Surgery: A Literature Review on the Influence of Nonmedical Factors. *Neurosurgical Review* 2021; 44(2): 807-819
20. **M Leonardi**, L Grazzi, D D'Amico, Paolo Martelletti, E Guastafierro, C Toppo, A Raggi. Global Burden of Headache Disorders in Children and Adolescents 2007–2017. *International Journal of Environmental Research and Public Health* 2021; 18(1): 250
21. D D'Amico, Stewart J. Tepper, E Guastafierro, C Toppo, **M Leonardi**, L Grazzi, Paolo Martelletti, A Raggi. Mapping Assessments Instruments for Headache Disorders against the ICF Biopsychosocial Model of Health and Disability. *International Journal of Environmental Research and Public Health* 2021; 18(1): 246
22. L Grazzi, C Toppo, D D'Amico, **M Leonardi**, Paolo Martelletti, A Raggi, E Guastafierro. Non-Pharmacological Approaches to Headaches: Non-Invasive Neuromodulation, Nutraceuticals, and Behavioral Approaches. *International Journal of Environmental Research and Public Health* 2021; 18(4): 1503
23. E Guastafierro, C Toppo, F G. Magnani, Rosa Romano, Carla Facchini, Rino Campioni, Ersilia Brambilla, **M Leonardi**. Older Adults' Risk Perception during the COVID-19 Pandemic in Lombardy Region of Italy: A Cross-sectional Survey. *Journal of gerontological social work* 2021; 64(6): 585-598
24. Beghi E, Michael BD, Solomon T, Westenberg E, Winkler AS; COVID-19 Neuro Research Coalition (Beghi E, Michael BD, Solomon T, Westenberg E, Winkler AS, Knauss S, Sejvar J, Siddiqi O, Netravathi M, Charway Felli A, Abd Allah F, Bassetti C, Brito Ferreira ML, Hsiang Yi Chou S, Dalmau J, Delgado García G, Easton A, Emmrich J, Endres M, Fleury A, Frontera JA, García Azorín D, Guekht A, Helbok R, Hellwig K, Höglinger G, Kee Hoo F, Klein C, Lant S, McNett M, Moro E, Padovani A, Pfausler B, Prasad K, Roman GC, Sarfo FS, Satishchandra P, Saylor D, Spatola M, Spencer P, Stark RJ, Synofzik M, Taba P, Tagliavini Fabrizio, Thakur KT, Umapathi T, Vijayabala J, Weissenborn K, Wijeratne T, Wood GK, Carroll WM, Oreja Guevara C, **Leonardi M**, Schmutzhard E). Approaches to Understanding COVID-19 and its Neurological Associations. *Annals of Neurology* 2021; 89(6): 1059-1067
25. D D'Amico, L Grazzi, E Guastafierro, Emanuela Sansone, **M Leonardi**, A Raggi. Withdrawal failure in patients with chronic migraine and medication overuse headache. *Acta Neurologica Scandinavica* 2021; 144(4): 408-417
26. Cristillo V., Pilotto A., Cotti Piccinelli S., Zoppi N., Bonzi G., Gipponi S., Sattin D, Schiavolin S, Raggi A, Bezzi M., **Leonardi M**, Padovani A; Neuro Covid Next Study Group. Age and subtle cognitive impairment are associated with long-term olfactory dysfunction after COVID-19 infection. *Journal of the American Geriatrics Society* 2021; 69(10): 2778-2780
27. Tinelli M, **Leonardi M**, Paemeleire K, Raggi Alberto, Mitsikostas D, de la Torre ER, Steiner TJ; European Brain Council Value of Treatment Headache Working Group, the European Headache Federation, the European Migraine and Headache Alliance and Lifting The Burden: the Global Campaign against Headache. Structured headache services as the solution to the ill-health burden of headache. 3. Modelling effectiveness and cost-effectiveness of implementation in Europe: findings and conclusions. *Journal of Headache and Pain* 2021; 22:90
28. GBD 2019 Under-5 Mortality Collaborators. Global, regional, and national progress towards Sustainable Development Goal 3.2 for neonatal and child health: all-cause and cause-specific mortality findings from the Global Burden of Disease Study 2019. *Lancet* 2021; 398(10303): 870-905
29. Brunani A, Sirtori A, Capodaglio P, Donini LM, Buscemi S, Carbonelli MG, Giordano F, Mazzali G, Pasqualinotto L, Zenti MG, Barbieri V, Villa V, **Leonardi M**, Raggi A; ICF-OBESITY group. Disability assessment in an Italian cohort of patients with obesity using an International Classification of Functioning, Disability and Health (ICF)-derived questionnaire. *European Journal of Physical and Rehabilitation Medicine* 2021; 57(4): 630-938
30. GBD 2019 Stroke Collaborators. Global, regional, and national burden of stroke and its risk factors, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet Neurology* 2021; 20(10): 795-820

31. GBD 2019 Adolescent Mortality Collaborators. Global, regional, and national mortality among young people aged 10-24 years, 1950-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet* 2021; 398(10311): 1593-1618
32. Pilotto A, Cristillo V, Cotti Piccinelli S, Zoppi N, Bonzi G, Sattin D, Schiavolin S, Raggi A, Canale A, Gipponi S, Libri I, Frigerio M, Bezzi M, **Leonardi M**, Padovani A. Long-term neurological manifestations of COVID-19: prevalence and predictive factors. *Neurological Sciences* 2021; 42(12): 4903-4907
33. GBD 2019 Collaborators. Global mortality from dementia: Application of a new method and results from the Global Burden of Disease Study 2019. *Alzheimer's & Dementia: Translational Research & Clinical Interventions* 2021; 7(1): e12200
34. Sattin D, Magnani F G, Bartesaghi Laura, Caputo Milena, Fittipaldo AV, Cacciatore M, Picozzi M, **Leonardi M**. Theoretical models of consciousness: A scoping review. *Brain sciences* 2021; 11(5): 535
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Milan, December 2022