

Curriculum Vitae

Anna Maria Malagoni

Education

- Medicine degree awarded by University of Ferrara (Italy)
- Licensed to practice obtained at University of Ferrara.
- Postgraduate diploma of specialization in Sports Medicine awarded by University of Ferrara.
- PhD in "Biomedical Endocrinology and Neurophysiological Science", curriculum: "Exercise and vascular disease", University of Ferrara.
- Second level Master degree in "Compression therapy and methods for tissue repair", University of Ferrara.
- Second level Master degree "School of Clinical and Epidemiological Research: focus on monitoring, quality and statistics", University of Ferrara.

National Scientific Qualification to function as Associate Professor, 06/N2-Physical Exercise and Sport Sciences

Scientific Profile

Scopus author ID: 6508341309; Web of Science Researcher ID K-4974-2016; ORCID 0000-0002-3362-4691

Work experience

- 2011-present: Holder of a research grant at the Vascular Diseases Center-University Hospital of Ferrara.
- 2017-present: Honorary Clinical Research Fellow, Section of Vascular Surgery, Department of Surgery and Cancer, Imperial College London (UK)
- 2010-2011: Holder of a research grant at the Department of Rehabilitative Medicine, University Hospital of Ferrara.
- 2007-2009: PhD program and clinical activity at the outpatient clinic for vascular diseases' rehabilitation, Department of Rehabilitative Medicine, University Hospital of Ferrara
- 2004-2006: Holder of a research grant on "Peripheral venous and arterial diseases: experimentation of rehabilitation methods" at the Surgical Department of the University Hospital of Ferrara.
- 2004-2013: Clinical activity at the outpatient clinic for vascular diseases' rehabilitation, Department of Rehabilitative Medicine, University Hospital of Ferrara.
- 2001-2020: involved in the planning, conducting and supervising of the anti-doping controls, during international sporting events, for an international Olympic Athletic Federation (International Biathlon Union) and carried out related research activity.
- 2000-2003: Resident doctor at the Center for Biomedical Studies applied to Sport-University of Ferrara.
- 1999: Visiting physician at the Orthopaedic Clinic of the University Hospital of Ferrara.

Teaching

2002-present: Teaching activity in the context of graduate and post-graduate courses

Participation in national and international research

- 2016-2019: Project manager of a clinical trial awarded by the Italian Ministry of Health (Ricerca Finalizzata 2013) entitled "Validation of a novel non-invasive technique based on real time ultrasound B-mode to assess the jugular venous pulse". University Hospital of Ferrara
- 2018: Study coordinator, trial "A Multicenter Randomised Controlled Study: Does Neuromuscular Electrical Stimulation Improve the Absolute Walking Distance in Patients with Intermittent Claudication (NESIC) compared to best available treatment?" Imperial College London (UK)
- 2012-2015: Co-investigator multicentre trial NCT01371760 "BRAVE DREAMS (BRAIn VENous DRainage Exploited Against Multiple Sclerosis)"
- 2011: Co-investigator project "Global evaluation of the Anti-Doping program" in collaboration with International Biathlon Union, Bando: World Anti-Doping Agency - Social Science Research Program 2011
- 2009-2010: Co-investigator trial "Chronic venous insufficiency in multiple sclerosis. A haemodynamic pilot study of cerebrospinal venous drainage using non-conventional MRI measures and sonography. HSIRB # NEU2320808E "in collaboration with Buffalo Neuroimaging Analysis Center, Jacobs Neurological Institute, University of Buffalo, NY, USA.
- 2008-2009: Co-investigator for the trial "Endovascular treatment of multiple sclerosis: pilot study (EVTMS)" in collaboration with Buffalo Neuroimaging Analysis Center, Jacobs Neurological Institute, University of Buffalo, NY, USA.
- 2006: Co-investigator project "Artificial Intelligence Evoking Target Testing in Antidoping" (AR.I.E.T.T.A.) in collaboration with International Biathlon Union. Bando: World Anti-Doping Agency research Grants Health, Medical and Research Committee Anno: 2006
- 2004-2005: Co-investigator and study coordinator for the center of Ferrara of the trial NiCox S.A. NCX-4016-X-208: "A multicenter, double-blind, randomized, parallel group study to assess the effects of NCX 4016 vs placebo on walking distance in patients with peripheral arterial occlusive disease at Leriche-Fontaine stage II".

Professional Memberships

- Member of the Editorial Board of "Veins and Lymphatics" journal (journal section: Exercise and Compression).
- Member (medical expert) of the International Compression Club.
- Member of Italian Federation of Sport Medicine
- Member of the American College of Sports Medicine.

Honours

- Best Poster Award: 2nd Annual International Society for Neurovascular Disease scientific meeting, February 18-22, 2012, Orlando, Florida, USA.
- Best Poster Award "City of Graz": 52nd International Neuropsychiatric Pula Congress, June 20-23, 2012, Pula, Croatia.
- 2nd Poster Prize "City of Graz": 58th International Neuropsychiatric Pula Congress, May 25-27, 2018, Pula, Croatia.
- 2012: appointed lecturer in the discipline of Vascular Surgery by the Department of Morphology, Experimental Medicine and Surgery of the University Hospital of Ferrara (Italy).

- 2013: selected by the Research and Innovation Office of the University Hospital of Ferrara (Italy) to become part of a project entitled "Creation of a Hospital network to support clinical research".
- Reviewer for 9 scientific journals
- Author and co-author of 48 Congress reports. Speaker and invited speaker at 29 National and International Congresses and Meetings
- Co-author of 3 book chapters

Publications

H-index Scopus: 24; H-index Google Scholar: 28

1. Zamboni P, Malagoni AM, Menegatti E, Ragazzi R, Tavoni V, Tessari M, Beggs CB. Central venous pressure estimation from ultrasound assessment of the jugular venous pulse PLoS One. 2020 Oct 28;15(10):e0240057. doi: 10.1371/journal.pone.0240057.
2. Zollino I, Campioni D, Sibilla MG, Tessari M, Malagoni AM, Zamboni P. A phase II randomized clinical trial for the treatment of recalcitrant chronic leg ulcers using centrifuged adipose tissue containing progenitor cells. *Cytotherapy*. 2019;21:200-211.
3. Baggetta R, D'Arrigo G, Torino C, ElHafeez SA, Manfredini F, Mallamaci F, Zoccali C, Tripepi G; EXCITE Working group. Effect of a home based, low intensity, physical exercise program in older adults dialysis patients: a secondary analysis of the EXCITE trial. *BMC Geriatr*. 2018;18:248.
4. Tessari M, Tisato V, Rimondi E, Zamboni P, Malagoni AM. Effects of intermittent pneumatic compression treatment on clinical outcomes and biochemical markers in patients at low mobility with lower limb edema. *J Vasc Surg Venous Lymphat Disord*. 2018;6:500-510.
5. Giancesini S, Sisini F, Di Domenico G, Secchiero J, Malagoni AM, Menegatti E, Gambaccini M, Zamboni P. Lower limbs venous kinetics and consequent impact on drainage direction. *Phlebology*. 2018;33:107-114.
6. Giancesini S, Occhionorelli S, Menegatti E, Malagoni AM, Tessari M, Zamboni P. Femoral vein valve incompetence as a risk factor for junctional recurrence. *Phlebology*. 2018;33:206-212.
7. Zamboni P, Sisini F, Menegatti E, Taibi A, Gadda G, Tavoni V, Malagoni AM, Tessari M, Giancesini S, Gambaccini M. Ultrasound Monitoring of Jugular Venous Pulse during Space Missions: Proof of Concept. *Ultrasound Med Biol*. 2018;44:726-733.
8. Menegatti E, Tessari M, Vannini ME, Giancesini S, Malagoni AM, Ciorba A, Mazzoli M, Sisini F, Salvi F, Pelucchi S, Zamboni P. High Resolution M-mode Evaluation of Jugular Vein Valves in Patients with Neurological and Neurosensory Disorders. *Curr Neurovasc Res*. 2017;14:316-322.
9. Manfredini F, Mallamaci F, D'Arrigo G, Baggetta R, Bolignano D, Torino C, Lamberti N, Bertoli S, Ciurlino D, Rocca-Rey L, Barillà A, Battaglia Y, Rapanà, RM, Zuccalà A, Bonanno G, Fatuzzo P, Rapisarda F, Rastelli S, Fabrizi F, Messa P, De Paola L, Lombardi L, Cupisti A, Fuiano G, Lucisano G, Summaria C, Felisatti M, Pozzato E, Malagoni AM, Castellino P, Aucella F, ElHafeez SA, Provenzano PF, Tripepi G, Catizone L, Zoccali C. Exercise in Patients on Dialysis: A Multicenter, Randomized Clinical Trial. *J Am Soc Nephrol*. 2017;28:1259-1268.
10. Giancesini S, Tessari M, Bacciglieri P, Malagoni AM, Menegatti E, Occhionorelli S, Basaglia N, Zamboni P. A specifically designed aquatic exercise protocol to reduce chronic lower limb edema. *Phlebology*. 2017;32:594-600.
11. Lamberti N, Straudi S, Malagoni AM, Argirò M, Felisatti M, Nardini E, Zamboni C, Basaglia N, Manfredini F. Effects of low-intensity endurance and resistance training on mobility in chronic stroke survivors. A pilot, randomized, controlled study. *Eur J Phys Rehabil Med*. 2017;53:228-239.
12. Lamberti N, Malagoni AM, Felisatti M, Caracciolo S, Resch N, Litmanen H, Dalfollo D, Jeannier P, Zhukovskaja L, Carrabre JE, Manfredini F. Anti-doping attitudes among elite athletes: a cross sectional study in biathlon using a suitably developed questionnaire. *J Sports Med Phys Fitness*. 2017;57:610-623.
13. Giancesini S, Menegatti E, Malagoni AM, Occhionorelli S, Zamboni P. Mini-invasive high-tie by clip

- aposition versus crosssection by ligation: Long-term outcomes and review of the available therapeutic options. *Phlebology*. 2017;32:249-255.
14. Pomidori L, Lamberti N, Malagoni AM, Manfredini F, Pozzato E, Felisatti M, Catizone L, Barillà A, Zuccalà A, Tripepi G, Mallamaci F, Zoccali C, Cogo A. Respiratory muscle impairment in dialysis patients: can minimal dose of exercise limit the damage? A Preliminary study in a sample of patients enrolled in the EXCITE trial. *J Nephrol*. 2016;29:863-869.
 15. Malagoni AM, Cavazza S, Ferraresi G, Grassi G, Felisatti M, Lamberti N, Basaglia N, Manfredini F. Effects of a "test in-train out" walking program versus supervised standard rehabilitation in chronic stroke patients: a feasibility and pilot randomized study. *Eur J Phys Rehabil Med*. 2016;52:279-287.
 16. Giancesini S, Gafà R, Occhionorelli S, Menegatti E, Malagoni AM, Spath P, Lanza G, Zamboni P. Histologic and sonographic features of holmium laser in chronic venous disease treatment. *Int Angiol*. 2017;36:122-128.
 17. Lamberti N, Malagoni AM, Ficarra V, Basaglia N, Manfredini R, Zamboni P, Mascoli F, Manfredini F. Structured Home-Based Exercise Versus Invasive Treatment: A Mission Impossible? A Pilot Randomized Study in Elderly Patients With Intermittent Claudication. *Angiology*. 2016;67:772-780.
 18. Malagoni AM, Lamberti N, Carrabre JE, Litmanen H, Jeannier P, Zhukovskaja L, Dal Follo D, Zamboni C, Resch N, Manfredini F. Planning the International Competition Schedules for the Health of Elite Athletes: A 21-Year Retrospective Study Evaluating the Effectiveness and Economic Impact in an Olympic Sport. *PLoS One*. 2015 Jun 26;10(6):e0130338. doi: 10.1371/journal.pone.0130338.
 19. Manfredini F, Lamberti N, Malagoni AM, Felisatti M, Zuccalà A, Torino C, Tripepi G, Catizone L, Mallamaci F, Zoccali C. The role of deconditioning in the end-stage renal disease myopathy: physical exercise improves altered resting muscle oxygen consumption. *Am J Nephrol*. 2015;41(4-5):329-336.
 20. Tessari M, Giancesini S, Menegatti E, Zuolo M, Malagoni AM, Vannini ME, Zamboni P. Elastic stockings effect on leg volume variability in healthy workers under prolonged gravitational gradient exposure. *Veins and Lymphatics* 2015DOI:http://dx.doi.org/10.4081/vl.2015.5182.
 21. Manfredini F, Lamberti N, Malagoni AM, Zamboni C, Basaglia N, Mascoli F, Manfredini R, Zamboni P. Reliability of the vascular claudication reporting in diabetic patients with peripheral arterial disease: a study with near-infrared spectroscopy. *Angiology*. 2015;66:365-374.
 22. Manfredini F, Malagoni AM, Felisatti M, Mandini S, Lamberti N, Manfredini R, Mascoli F, Basaglia N, Zamboni P. Acute oxygenation changes on ischemic foot of a novel intermittent pneumatic compression device and of an existing sequential device in severe peripheral arterial disease. *BMC Cardiovasc Disord*. 2014;31:14:40.
 23. Sisini F, Giancesini S, Menegatti E, Taibi A, Tessari M, Di Domenico G, Malagoni AM, Gambaccini M. On the consistency of flow rate color Doppler assessment for the internal jugular vein. *Veins and Lymphatics* 2014 DOI:10.4081/vl.2014.1863.
 24. Zamboni P, Sisini F, Menegatti E, Taibi A, Malagoni AM, Morovic S, Gambaccini M. An ultrasound model to calculate the brain blood outflow through collateral vessels: a pilot study. *BMC Neurol*. 2013;13:81.
 25. Tessari M, Menegatti E, Giancesini S, Pala M, Zuolo M, Malagoni AM, Manfredini R, Zamboni P. Assessment of lower limbs edema in healthy workers who are exposed to long-term gravity. *Veins and Lymphatics* 2013DOI:10.4081/vl.2013.e19.
 26. Malagoni AM, Felisatti M, Lamberti N, Basaglia N, Manfredini R, Salvi F, Zamboni P, Manfredini F. Muscle oxygen consumption by NIRS and mobility in multiple sclerosis patient. *BMC Neurology* 2013;13:52.
 27. Manfredini F, Malagoni AM, Manfredini R. Ankle Brachial Pressure Index: Faulty or Overused? *Angiology* 2013;64:89-92.
 28. D'Addato S, Tartagni E, Dormi A, Ballarini G, Macciantelli M, Malagoni AM, Manfredini F, Manfredini R, Borghi C. Can peripheral arterial disease be early screened for in a podiatric setting? A preliminary study in a cohort of asymptomatic adults. *Eur Rev Med Pharmacol Sci* 2012;16:1646-1650.
 29. Manfredini F, Malagoni AM, Mandini S, Felisatti M, Mascoli F, Basaglia N, Roberto Manfredini R, Mikhailidis DP, Zamboni P. Near-infrared spectroscopy assessment following exercise training in patients with intermittent claudication and in untrained healthy subjects. *Vasc Endovascular Surg*.

- 2012;46:315-324.
30. De Giorgi A, Achilli F, Fabbian F, Pala M, Menegatti AM, Malagoni AM, Manfredini F, Manfredini R. Sudden death in competitive athletes: does a circadian variation in occurrence exist? *Am J Emerg Med.* 2012;30:1306-1309.
 31. Zamboni P, Menegatti E, Pomidori L, Morovic S, Taibi A, Malagoni AM, Cogo AL, Gambaccini M. Does thoracic pump influence the cerebral venous return? *J Appl Physiol.* 2012;112:904-910.
 32. Zamboni P, Menegatti E, Weinstock-Guttman B, Dwyer MG, Schirda CV, Malagoni AM, Hojnacki D, Kennedy C, Carl E, Bergsland N, Magnano C, Bartolomei I, Salvi F, Zivadinov R. Hypoperfusion of brain parenchyma is associated with the severity of chronic cerebrospinal venous insufficiency in patients with multiple sclerosis: a cross-sectional preliminary report. *BMC Med.* 2011;9:22.
 33. Zivadinov R, Galeotti R, Hojnacki D, Menegatti E, Dwyer MG, Schirda C, Anna M Malagoni AM, Marr K, Kennedy C, Bartolomei I, Magnano C, Salvi F, Weinstock-Guttman B, Zamboni P. Value of MR venography for detection of internal jugular vein anomalies in multiple sclerosis. A pilot longitudinal study. *AJNR Am J Neuroradiol.* 2011;32:938-946.
 34. Manfredini F, Malagoni AM, Litmanen H, Zhukovskaja L, Jeannier Pierre, DalFollo D, Felisatti M, Besseberg A, Geistlinger M, Bayer P, Carrabre J. Performance and blood monitoring in sports: the artificial intelligence evoking target testing in antidoping (AR.I.E.T.T.A.) project. *J Sports Med Phys Fitness.* 2011;51:153-159.
 35. Manfredini R, Fabbian F, Pala M, Tiseo R, De Giorgi A, Manfredini F, Malagoni AM, Signani F, Andreati C, Boari B, Salmi R, Imberti D, Gallerani M. Seasonal and weekly patterns of occurrence of acute cardiovascular diseases: does a gender difference exist? *J Womens Health (Larchmt).* 2011;20:1663-1668.
 36. Malagoni AM, Vagnoni E, Felisatti M, Mandini S, Heidari M, Mascoli F, Basaglia N, Manfredini R, Zamboni P, Manfredini F. Evaluation of patient compliance, quality of life impact and cost-effectiveness of a "test in-train out" exercise-based rehabilitation program for patients with intermittent claudication. *Circ J.* 2011;75:2128-2134.
 37. Zivadinov R, Schirda C, Dwyer MG, Haacke ME, Weinstock-Guttman B, Menegatti E, Heininen-Brown M, Magnano C, Malagoni AM, Wack DS, Hojnacki D, Kennedy C, Carl E, Bergsland N, Hussein S, Poloni G, Bartolomei I, Salvi F, Zamboni P. Chronic cerebrospinal venous insufficiency and iron deposition on susceptibility-weighted imaging in patients with multiple sclerosis: a pilot case-control study. *Int Angiol.* 2010;29:158-175.
 38. Hojnacki D, Zamboni P, Lopez-Soriano A, Galeotti R, Menegatti E, Weinstock-Guttman B, Schirda C, Magnano C, Malagoni AM, Kennedy C, Bartolomei I, Salvi F, Zivadinov R. Use of neck magnetic resonance venography, Doppler sonography and selective venography for diagnosis of chronic cerebrospinal venous insufficiency: a pilot study in multiple sclerosis patients and healthy controls. *Int Angiol.* 2010;29:127-139.
 39. Malagoni AM, Galeotti R, Menegatti E, Manfredini F, Basaglia N, Salvi F, Zamboni P. Is chronic fatigue the symptom of venous insufficiency associated with multiple sclerosis? A longitudinal pilot study. *Int Angiol.* 2010;29:176-182.
 40. Menegatti E, Genova V, Tessari M, Malagoni AM, Bartolomei I, Zuolo M, Galeotti R, Salvi F, Zamboni P. The reproducibility of colour Doppler in chronic cerebrospinal venous insufficiency associated with multiple sclerosis. *Int Angiol.* 2010;29:121-126.
 41. Zamboni P, Menegatti E, Weinstock-Guttman B, Schirda C, Cox JL, Malagoni AM, Hojnacki D, Kennedy C, Carl E, Dwyer MG, Bergsland N, Galeotti R, Hussein S, Bartolomei I, Salvi F, Ramanathan M, Zivadinov R. CSF dynamics and brain volume in multiple sclerosis are associated with extracranial venous flow anomalies: a pilot study. *Int Angiol.* 2010;29:140-148.
 42. Manfredini R, Manfredini F, Boari B, Malagoni AM, Gamberini S, Salmi R, Gallerani M. Temporal patterns of hospital admissions for transient ischemic attack: a retrospective population-based study in the Emilia-Romagna region of Italy. *Clin Appl Thromb Hemost.* 2010;16:153-160.
 43. Malagoni AM, Felisatti M, Mandini S, Mascoli F, Manfredini R, Basaglia N, Zamboni P, Manfredini F. parameter to be considered in a clinical setting? *Angiology.* 2010;61:530-536.
 44. Salvi F, Bartolomei I, Smolensky MH, Lorusso A, Barbarossa E, Malagoni AM, Zamboni P, Manfredini R. A seasonal periodicity in relapses of multiple sclerosis? A single-center, population-based, preliminary study conducted in Bologna, Italy. *BMC Neurol.* 2010;10:105.

45. Manfredini R, Manfredini F, Malagoni AM, Boari B, Salmi R, Dentali F, Ageno W. Chronobiology of vascular disorders: a "seasonal" link between arterial and venous thrombotic diseases". *Journal of Coagulation Disorders*. 2010; 2:61-67.
46. Zamboni P, Galeotti R, Menegatti E, Malagoni AM, Giancesini S, Bartolomei I, Mascoli F, Salvi F. A prospective open-label study of endovascular treatment of chronic cerebrospinal venous insufficiency. *J Vasc Surg*. 2009;50:1348-1358.e1-3. Erratum in: *J Vasc Surg*. 2010;51:1079.
47. Zamboni P, Menegatti E, Galeotti R, Malagoni AM, Tacconi G, Dall'Ara S, Bartolomei I, Salvi F. The value of cerebral Doppler venous haemodynamics in the assessment of multiple sclerosis. *J Neurol Sci*. 2009;15:282(1-2):21-27.
48. Manfredini F, Malagoni AM, Felisatti M, Mandini S, Mascoli F, Manfredini R, Basaglia N, Zamboni P. A dynamic objective evaluation of peripheral arterial disease by near-infrared spectroscopy. *Eur J Vasc Endovasc Surg*. 2009;38(4):441-448.
49. Manfredini F, Rigolin GM, Malagoni AM, Catizone L, Mandini S, Soffritti O, Mauro E, Soffritti S, Boari B, Cuneo A, Zamboni P, Manfredini R. Exercise training and endothelial progenitor cells in haemodialysis patients. *J Int Med Res*. 2009;37:534-540.
50. Manfredini F, D'Addato S, Laghi L, Malagoni AM, Mandini S, Boari B, Borghi C, Manfredini R. Influence of lifestyle measures on hypertriglyceridaemia. *Curr Drug Targets*. 2009;10:344-355.
51. Zamboni P, Galeotti R, Menegatti E, Malagoni AM, Tacconi G, Dall'Ara S, Bartolomei I, Salvi F. Chronic cerebrospinal venous insufficiency in patients with multiple sclerosis. *J Neurol Neurosurg Psychiatry*. 2009;80:392-399.
52. Zamboni P, Menegatti E, Weinstock-Guttman B, Schirda C, Cox JL, Malagoni AM, Hojanacki D, Kennedy C, Carl E, Dwyer MG, Bergsland N, Galeotti R, Hussein S, Bartolomei I, Salvi F, Zivadinov R. The severity of chronic cerebrospinal venous insufficiency in patients with multiple sclerosis is related to altered cerebrospinal fluid dynamics. *Funct Neurol*. 2009;24:133-138.
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54. Manfredini F, Malagoni AM, Mandini S, Boari B, Felisatti M, Zamboni P, Manfredini R. Sport therapy for hypertension: why, how, and how much? *Angiology*. 2009;60:207-216.
55. Manfredini R, Manfredini F, Malagoni AM, Salmi R, Boari B, Gallerani M. Day-of-week distribution of fatal and nonfatal ischemic stroke in elderly subjects. *J Am Geriatr Soc*. 2009;57:1511-1513.
56. Manfredini R, Boari B, Salmi R, Gallerani M, Felisatti M, Mandini S, Malagoni AM, Manfredini F. Circadian variation of cardiovascular events and morning blood pressure surge. *Vascular Disease Prevention*. 2008;5:246-251.
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63. Manfredini F, Malagoni AM, Zamboni P, Manfredini R, Conconi F. Trained legs for cardiovascular fitness in peripheral arteriopathy. *Eur J Vasc Endovasc Surg*. 2006;31:447-448; author reply 448-9.
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- patients with acute ST-segment elevation myocardial infarction. *JAMA*. 2005;294:2846-2847; author reply 2847.
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