

Curriculum Vitae

Prof Carlo Mario Lombardi



CARLO MARIO LOMBARDI

Posizione Lavorativa attuale

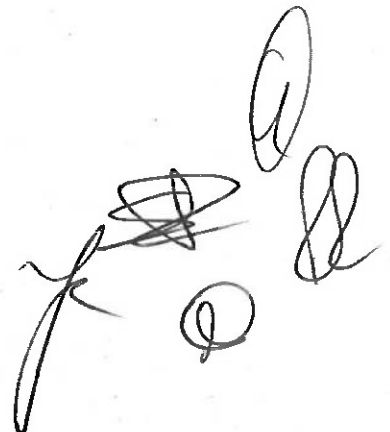
Professore Associato Cattedra di Cardiologia della Università degli Studi di Brescia - dirigente medico convenzionato a tempo indeterminato con ASST Spedali Civili di Brescia

Istruzione e concorsi

- **1997:** diploma di maturità classica ottenuto presso Istituto Cattolico Dante Alighieri di Crema (Cr)
- **2005 (18 ottobre):** Diploma di laurea in Medicina e Chirurgia presso Università Degli Studi di Brescia con il massimo dei voti: 110/110
Titolo della tesi: Modificazioni della terapia beta-bloccante e prognosi in pazienti ricoverati per peggioramento dell'insufficienza cardiaca: Analisi dello studio COMET
- **2010 (3 marzo):** Diploma di Specializzazione in Cardiologia presso Università Degli Studi di Brescia con il massimo dei voti 50/50 e lode.
Titolo della tesi: Significato prognostico delle concentrazioni plasmatiche di troponina I in pazienti ricoverati per scompenso cardiaco acuto e sindrome cardiorenale: analisi dello studio Protect Pilot
- **2019:** Conseguimento abilitazione scientifica nazionale al ruolo di Professore Associato seconda fascia Malattie dell'Apparato Cardiovascolare MED 11
- **2021:** Conseguimento abilitazione scientifica nazionale al ruolo di Professore Ordinario prima fascia Malattie dell'Apparato Cardiovascolare MED 11

Posizioni Funzionali

- dal 15/07/2010 al 31/12/2011, con rapporto libero professionale, per lo svolgimento, in alternanza con altri tre Medici Specialisti in Cardiologia, di un numero massimo complessivo di 10 guardie mensili di 12 ore ciascuna, nell'ambito del Progetto "Turni di Guardia presso V.O. Cardiologia";
- dal 01/01/2012 al 30/06/2012, con rapporto libero professionale, per lo svolgimento, in alternanza con altri due Medici Specialisti in Cardiologia, di un numero massimo complessivo di 10 guardie mensili di 12 ore ciascuna, nell'ambito del Progetto "Turni di Guardia presso U.O. Cardiologia";
- dal 01/07/2012 al 31/12/2012, con rapporto libero professionale, per lo svolgimento, in alternanza con altro Medico Specialista in Cardiologia, di un numero massimo complessivo di 5 guardie mensili di 12 ore ciascuna, nell'ambito del Progetto "Turni di Guardia presso U.O. Cardiologia";
- dal 01/01/2013 al 31/03/2013, con rapporto libero professionale, per lo svolgimento, in alternanza con altro Medico Specialista in Cardiologia, di un numero massimo complessivo di 8 guardie mensili di 12 ore ciascuna nell'ambito del Progetto "Turni di Guardia presso U.O. Cardiologia";
- dal 01/04/2013 al 22/12/2013, con rapporto libero professionale per lo svolgimento indicativamente di 38,00 ore nell'ambito del "Progetto di valutazione diagnostica, trattamento e follow-up dei Pazienti ricoverati per insufficienza cardiaca e con aritmie" presso la U.O. Cardiologia del P.O. Spedali Civili;
- Dal 23/12/2013 al 31/10/2016, Dipendente a tempo determinato Dirigente medico (disciplina Cardiologia) presso Spedali Civili di Brescia (indirizzo protocollo.spedalivicilibrescia@legalmail.it) (Pubblica Amministrazione (compreso S.S.N.)) a tempo pieno (n. 36 ore/sett.) - Note: ricercatore di tipo A presso Università Degli Studi di Brescia convezionato con azienda Spedali Civili di Brescia
- Dal 01/11/2016 al 31/12/2019, Dipendente a tempo determinato Dirigente medico (disciplina Cardiologia) presso Spedali Civili di Brescia (indirizzo protocollo.spedalivicilibrescia@legalmail.it) (Pubblica Amministrazione (compreso S.S.N.)) a tempo pieno (n. 36 ore/sett.) - Note: ricercatore di tipo B presso Università Degli Studi di Brescia convezionato con azienda Spedali Civili di Brescia
- Dal 31/12/2019 ad oggi, Dipendente a tempo indeterminato Dirigente medico (disciplina Cardiologia) presso Spedali Civili di Brescia (indirizzo protocollo.spedalivicilibrescia@legalmail.it) (Pubblica Amministrazione (compreso S.S.N.)) a tempo pieno (n. 36 ore/sett.) - Note: Professore Associato Cattedra di Cardiologia - presso Università Degli Studi di Brescia convezionato con azienda Spedali Civili di Brescia

Handwritten signature and initials in black ink, located in the bottom right corner of the page. The signature is a large, stylized cursive mark, and there are several smaller initials or marks scattered around it.

Esperienza formativa estera

- Giugno 2009 – Gennaio 2010: Cardiovascular Research Fellow presso Duke Clinical Research Institute - Duke University North Carolina USA
- Conseguimento durante la fellowship presso il Duke Clinical Research Institute del diploma in "Heart Failure Research Training"

Posizione accademica attuale:

Professore Associato di Cardiologia Università Degli Studi di Brescia (01/11/20219)
dipartimento DSMC (01/11/2019)

Ruolo Assistenziale

- Dirigente medico (disciplina Cardiologia) presso Spedali Civili di Brescia
- Medico cardiologo di formazione clinica con competenze ecocardiografiche di II livello
- Responsabile centro per la diagnosi e la cura dell'ipertensione polmonare
- Referente della rete regionale malattie rare per ASST Spedali Civili di Brescia per l'ipertensione polmonare - Dal 01/01/2018 al 08/11/2021
- Incarico professionale di alta specializzazione - Responsabile per il coordinamento della attività specialistica ambulatoriale

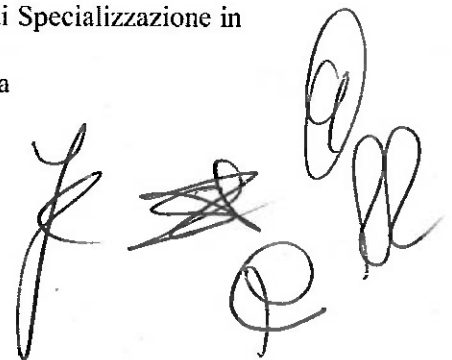
Casistica in ambito clinico

- Attività di assistenza clinica con responsabilità diretta su circa 4000 pazienti ricoverati nei reparti di degenza e Unità Coronarica con particolare interesse verso i soggetti affetti da scompenso cardiaco e gravi cardiopatie con indicazione a trapianto cardiaco
- Visite cardiologiche: 40000
- Ecocolordoppler cardiaco: 35.000 (circa 3000/anno)
- Prova da sforzo al cicloergometro: 2000 (150/Anno)
- Prova da sforzo cardiopolmonari: 500 (50/anno)
- Cateterismo cardiaco destro: 200

Attività didattica

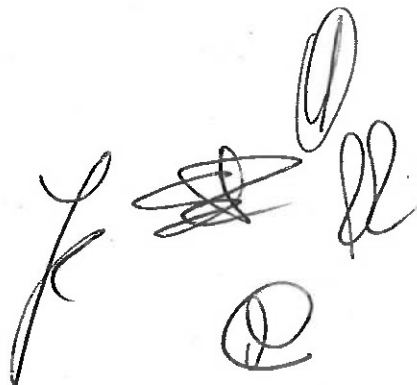
Titolare dei seguenti insegnamenti

- Materia: Cardiologia - Laura Magistrale in Medicina e Chirurgia (titolo del corso: Malattie dell'Apparato Cardiovascolare)
Università degli Studi di Brescia - Facoltà di Medicina e Chirurgia
N. 6 ore di docenza - Note: Settore Scientifico disciplinare MED-11
- Materia: Malattie dell'Apparato Cardiovascolare (titolo del corso: Laurea Magistrale in Odontoiatria e Protesi Dentaria)
Università degli Studi di Brescia - Facoltà di Medicina e Chirurgia corso di laurea in Odontoiatria e Protesi Dentaria
N. 10 ore di docenza
- Materia: Clinica e Principi di Riabilitazione Cardiologica (titolo del corso: Fisioterapia)
Università degli Studi di Brescia - Facoltà di Medicina e Chirurgia - Corso di Laurea in Fisioterapia
N. 9 ore di docenza
- Materia: Cardiologia (titolo del corso: Scienze infermieristiche Università degli Studi di Brescia - Facoltà di Medicina e Chirurgia. N. 12 ore di docenza
- Materia: Semeiotica Cardiovascolare (titolo del corso: Scuola di Specializzazione in Malattie dell'Apparato Cardiovascolare)
Università degli Studi di Brescia - Facoltà di Medicina e Chirurgia
N. 12 ore di docenza



Principali attività e responsabilità scientifica

- Rappresentante di Ateneo nel Consiglio Direttivo Nazionale dell'Istituto Nazionale di Ricerca Cardiovascolare
- Responsabile studio multicentrico nazionale "CARDIO-COVID MULTICENTER STUDY"
- Responsabile di Unità Operativa Locale (principal investigator e responsabile scientifico) dello Studio Osservazionale multicentrico no-profit (2 centri nazionali Università di Brescia - Università di Pavia) dal titolo: "Significato prognostico degli indicatori di danno cardiaco (troponine plasmatiche), renale (azotemia, creatinemia, NGAL, KIM-1, cistatina-c), di stress miocardico (peptidi natriuretici, adrenomedullina) e di flogosi (PCR, IL-6, TNF-alfa, etc.) in pazienti ricoverati per scompenso cardiaco acuto"
- Responsabile di Unità Operativa Locale (principal investigator e responsabile scientifico) presso l'Università degli Studi di Brescia – Spedali Civili dello studio multicentrico internazionale di fase 3: PURE-HF: Peripheral Ultrafiltration for the RELief From Congestion in Heart Failure. ClinicalTrials.gov Identifier: NCT03161158. Description: This study evaluates whether tailored, peripheral ultrafiltration complementary to low-dose diuretics is associated with a reduction in cardiovascular mortality in 90 days after randomization and heart failure events in 90 days after discharge than usual care including stepped intravenous diuretics in acutely decompensated chronic heart failure with fluid overload (not fully responsive to diuretic therapy).
- Responsabile di Unità Operativa Locale (principal investigator e responsabile scientifico) presso l'Università degli Studi di Brescia – Spedali Civili di Brescia dello studio osservazionale multicentrico nazionale no-profit dal titolo: "HLM: The TNM-like classification for heart failure: a no profit, spontaneous, multicentric, observational, clinical study". Studio promosso dalla Università Sapienza di Roma (Dipartimento di scienze cardiovascolari, respiratorie, nefrologiche, anestesologiche e geriatriche)
- Responsabile di Unità Operativa Locale e responsabile scientifico locale (Università di Brescia) del progetto di ricerca internazionale ottenuto con procedura competitiva di concorso tra pari, promosso e finanziato dalla Comunità Europea (Seventh Framework Programme Theme - FP7-Health-2009-single-stage): BIOSTAT-CHF A systems BIOlogy Study to Tailored Treatment in Chronic Heart. Ruolo svolto: principal investigator e responsabile scientifico locale. Partecipazione allo sviluppo del protocollo ed ad investigator meeting internazionali. Attuale responsabilità nella elaborazione ed interpretazione dei dati ottenuti e nella stesura di articoli scientifici. Ammontare totale del finanziamento 11.840.000 Euro di cui 820.000 Euro destinati all'Università Degli Studi di Brescia - Cattedra di Cardiologia.
- Responsabile scientifico e coordinatore del progetto di ricerca triennale sulla base di bando competitivo nazionale: "Dote Ricercatore" coinvolgente soggetti stranieri (Duke Clinical Research Institute and Duke University - Durham North Carolina - Usa) inquadrato nel programma di intervento per lo sviluppo del capitale umano nel sistema universitario Lombardo e finanziato con fondi regionali - Regione Lombardia (60.000 Euro)
- Titolo della ricerca Significato prognostico degli indicatori di danno cardiaco (troponine plasmatiche), renale (azotemia, creatinemia, NGAL, KIM-1, cistatina-c),



di stress miocardico (peptidi natriuretici, adrenomedullina) e di flogosi (PCR, IL-6, TNF-alfa, etc.) in pazienti ricoverati per scompenso cardiaco acuto

- Responsabile scientifico locale: International observational study: Inspectio trial: A Study of Pulmonary Arterial Hypertension Participants Treated With Macitentan or Selexipag
- Resposabile scientifico locale: international interventional study Clinical Study to Compare the Efficacy and Safety of Macitentan and Tadalafil Monotherapies With the Corresponding Fixed-dose Combination Therapy in Subjects With Pulmonary Arterial Hypertension (PAH) (A DUE)

Partecipazione come investigatore ai seguenti trials clinici randomizzati internaizonali

- PROTEC study: : selective A1 adenosine receptor antagonist rolofylline for patients hospitalized with acute decompensated heart failure and volume overload
- REACH UP study: adenosine A(1) receptor antagonism in patients with acute decompensated heart failure and worsening renal function
- SHIFT: Systolic Heart Failure Treatment with the I(1) Inhibitor Ivabradine Trial
- PRE-RELAX-HF Relaxin for the treatment of patients with acute heart failure
- RELAX-AHF trials: Relaxin for the treatment of patients with acute heart failure
- RELAX-AHF-2: Relaxin in acute heart failure
- THE BALANCE Study: Treatment of Hyponatremia Based on Lixivaptan in NYHA Class III/IV Cardiac Patient Evaluation
- SYMPLICITY-HF: renal denervation in patients with chronic heart failure and renal impairment
- ASCEND-HF: Acute Study of Clinical Effectiveness of Nesiritide in Decompensated Heart Failure Trial
- EVEREST: Efficacy of Vasopressin Antagonism in Heart Failure Outcome Study with Tolvaptan
- A Randomized, Controlled Study to Evaluate Algisyl-LVR™ as a Method of Left Ventricular Augmentation for Heart Failure A Randomized, Controlled Study to Evaluate Algisyl-LVR™ as a Method of Left Ventricular Augmentation for Heart Failure
- BOT_AcuteHF: NT-proBNP in the Optimization of Treatment After Recent Acute Heart Failure Trial
- COMPOSE 1: BAY58-2667 Dose Finding Trial Investigating Fixed Doses in Patients With Acute Decompensated Chronic Congestive Heart Failure (ADHF)
- AUGMENT-HF: A Randomized, Controlled Study to Evaluate Algisyl-LVR™ as a Method of Left Ventricular Augmentation for Heart Failure
- CONFIGURE-HF: Safety and Efficacy Study of the BioVentrix PliCath HF
- ATOMIC-AHF: Study to Evaluate the Safety and Efficacy of IV Infusion Treatment With Omecamtiv Mecarbil in Subjects With Left Ventricular Systolic Dysfunction Hospitalized for Acute Heart Failure



- CONFIRM-HF: A Study to Compare the Use of Ferric Carboxymaltose With Placebo in Patients With Chronic Heart Failure and Iron Deficiency
- CHART-1: Safety and Efficacy of Autologous Cardiopoietic Cells for Treatment of Ischemic Heart Failure.
- BIOSTAT-CHF: systems BIOlogy Study to Tailored Treatment in Chronic Heart Failure
- SOCRATES-REDUCED: SOLuble guanylate Cyclase stimulatO in heArT failurE on Natriuretic Peptide Levels in Patients With Worsening Chronic Heart Failure and Reduced Ejection Fraction:
- SOCRATES-PRESERVED: SOLuble guanylate Cyclase stimulatO in heArT failurE on Natriuretic Peptide Levels in Patients With Worsening Chronic Heart Failure and Preserved Ejection Fraction Preserved left ventricular Ejection Fraction
- Effects of Istaroxime in patients with Acute heart failure
- BOT_AcuteHF: NT-proBNP in the Optimization of Treatment After Recent Acute Heart Failure Trial

Attività come revisore di riviste scientifiche

- European Heart Journal
- European Journal of Heart Failure
- ESC Heart Failure
- JACC Heart Failure
- Journal of Cardiac Failure
- International Journal of Cardiology
- Journal of Cardiovascular Medicine

Attività editoriale

- Editore associato of the European Journal of Heart Failure
- Editore associato Journal of Cardiovascular Medicine
- Membro of the Editorial Board of JACC Heart Failure

Attività come editore invitato

- Journal of Clinical Medicine (impact factor in 2022, 5.865) Special Issue "New Advances in Pharmacologic and Non Pharmacologic Therapy in Heart Failure" Guest Editors Carlo Mario Lombardi – Daniele Masarone
- Frontiers in Psychiatry (impact factor in 2022, 3.532) Special Issue "Cardiometabolic Disease and Psychiatric Disorders." Guest Editors Carlo Mario Lombardi – Giacomo Deste

Membro delle seguenti società scientifiche:

- Member of the College of Physicians and Surgeons of the city of Brescia
- Member of the Italian Cardiology Society

Handwritten signature and initials in the bottom right corner of the page.

- Member of European Society of Cardiology
- Member of Heart Failure Association

Publicazioni scientifiche (fonte scopus)

- Autore di 170 pubblicazioni in estenso presenti in PUMED
- Autore di circa 500 abstract
- H-INDEX: 34
- Numero di citazioni totali: 6143

| Comprensione | | | Parlato | | | Scritto |
|--------------|--------|---------|-------------------|------------------|--------|---------|
| Ascolto | | Lettura | Interazione orale | Produzione orale | | |
| INGELSE | Ottime | OTTIMO | OTTIMA | OTTIMA | OTTIMA | OTTIMA |

Handwritten signature and initials in the right margin.

Handwritten signature and initials at the bottom right of the page.

Elenco delle pubblicazioni scientifiche
Fonte PUBMED - 23/08/2023

1: Villaschi A, Pagnesi M, Stolfo D, Baldetti L, Lombardi CM, Adamo M, Loiacono F, Sammartino AM, Colombo G, Tomasoni D, Inciardi RM, Maccallini M, Gasparini G, Montella M, Contessi S, Cocianni D, Perotto M, Barone G, Merlo M, Cappelletti AM, Sinagra G, Pini D, Metra M, Chiarito M. Ischemic Etiology in Advanced Heart Failure: Insight from the HELP-HF Registry. *Am J Cardiol*. 2023 Aug 8;204:268-275. doi: 10.1016/j.amjcard.2023.07.114. Epub ahead of print. PMID: 37562192.

2: Fabiani I, Pugliese NR, Pedrizzetti G, Tonti G, Castiglione V, Chubuchny V, Taddei C, Gimelli A, Del Punta L, Balletti A, Del Franco A, Masi S, Lombardi CM, Cameli M, Emdin M, Giannoni A. Haemodynamic forces predicting remodelling and outcome in patients with heart failure treated with sacubitril/valsartan. *ESC Heart Fail*. 2023 Jul 17. doi: 10.1002/ehf2.14346. Epub ahead of print. PMID: 37461184.

3: Bellicini MG, D'Altilia FP, Gussago C, Adamo M, Lombardi CM, Tomasoni D, Inciardi RM, Metra M, Pagnesi M. Telemedicine for the treatment of heart failure: new opportunities after COVID-19. *J Cardiovasc Med (Hagerstown)*. 2023 Jun 27. doi: 10.2459/JCM.0000000000001514. Epub ahead of print. PMID: 37409660.

4: Bonelli A, Pagnesi M, Inciardi RM, Castiello A, Sciatti E, Carubelli V, Lombardi CM, Metra M, Vizzardi E. Prognostic role of tricuspid annular plane systolic excursion/pulmonary artery systolic pressure ratio in patients hospitalized for acute heart failure. *J Cardiovasc Med (Hagerstown)*. 2023 Aug 1;24(8):564-574. doi: 10.2459/JCM.0000000000001499. PMID: 37409602.

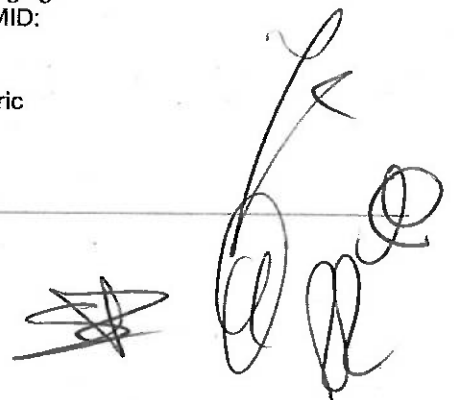
5: Tomasoni D, Adamo M, Porcari A, Aimo A, Bonfili GB, Castiglione V, Franzini M, Inciardi RM, Khalil A, Lombardi CM, Lupi L, Nardi M, Oriecua C, Pagnesi M, Panichella G, Rossi M, Saccani N, Specchia C, Vergaro G, Merlo M, Sinagra G, Emdin M, Metra M. Right ventricular to pulmonary artery coupling and outcome in patients with cardiac amyloidosis. *Eur Heart J Cardiovasc Imaging*. 2023 Jun 28;jead145. doi: 10.1093/ehjci/jead145. Epub ahead of print. PMID: 37379445.

6: Tomasoni D, Bonfili GB, Aimo A, Adamo M, Canepa M, Inciardi RM, Lombardi CM, Nardi M, Pagnesi M, Riccardi M, Vergaro G, Vizzardi E, Emdin M, Metra M. Treating amyloid transthyretin cardiomyopathy: lessons learned from clinical trials. *Front Cardiovasc Med*. 2023 May 23;10:1154594. doi: 10.3389/fcvm.2023.1154594. PMID: 37288260; PMCID: PMC10242061.

7: Riccardi M, Sammartino AM, Adamo M, Inciardi RM, Lombardi CM, Pugliese NR, Tomasoni D, Vizzardi E, Metra M, Coats AJS, Pagnesi M. Cardiac contractility modulation: an effective treatment strategy for heart failure beyond reduced left ventricular ejection fraction? *Heart Fail Rev*. 2023 Sep;28(5):1141-1149. doi: 10.1007/s10741-023-10315-4. Epub 2023 May 18. PMID: 37198505.

8: Lupi L, Italia L, Pagnesi M, Pancaldi E, Ancona F, Stella S, Pezzola E, Cimino G, Saccani N, Ingallina G, Margonato D, Inciardi RM, Lombardi CM, Tomasoni D, Agricola E, Metra M, Adamo M. Prognostic value of right ventricular longitudinal strain in patients with secondary mitral regurgitation undergoing transcatheter edge-to-edge mitral valve repair. *Eur Heart J Cardiovasc Imaging*. 2023 May 17;jead103. doi: 10.1093/ehjci/jead103. Epub ahead of print. PMID: 37194460.

9: Deste G, Lombardi CM. Editorial: Cardiometabolic disease and psychiatric disorders. *Front Psychiatry*. 2023 Mar 31;14:1174055. doi: 10.3389/fpsy.2023.1174055. PMID: 37065895; PMCID: PMC10102656.



10: Stoffo D, Barbisan D, Ameri P, Lombardi CM, Monti S, Driussi M, Zovatto IC, Gentile P, Howard L, Toma M, Pagnesi M, Collini V, Bauleo C, Guglielmi G, Adamo M, D'Angelo L, Nalli C, Sciarrone P, Moschella M, Zorzi B, Vecchiato V, Milani M, Di Poi E, Airò E, Metra M, Garascia A, Sinagra G, Lo Giudice F. Performance of risk stratification scores and role of comorbidities in older vs younger patients with pulmonary arterial hypertension. *J Heart Lung Transplant*. 2023 Aug;42(8):1082-1092. doi: 10.1016/j.healun.2023.02.1707. Epub 2023 Mar 5. PMID: 37005100.

11: Cersosimo A, Bonelli A, Lombardi CM, Moreo A, Pagnesi M, Tomasoni D, Arabia G, Vizzardi E, Adamo M, Farina D, Metra M, Inciardi RM. Multimodality imaging in the diagnostic management of concomitant aortic stenosis and transthyretin-related wild-type cardiac amyloidosis. *Front Cardiovasc Med*. 2023 Mar 14;10:1108696. doi: 10.3389/fcvm.2023.1108696. PMID: 36998972; PMCID: PMC10043370.

12: Tomasoni D, Aimo A, Adamo M, Nardi M, Lombardi CM, Regazzoni V, De Angelis MG, Fabiani I, Merlini G, Mussinelli R, Obici L, Panichella G, Vergaro G, Passino C, Scolari F, Perlini S, Emdin M, Metra M. Echocardiographic findings in subjects with an amyloidogenic apolipoprotein A1 pathogenic variant. *Amyloid*. 2023 Sep;30(3):335-345. doi: 10.1080/13506129.2023.2190003. Epub 2023 Mar 29. PMID: 36988111.

13: Aimo A, Tomasoni D, Porcari A, Vergaro G, Castiglione V, Passino C, Adamo M, Bellicini MG, Lombardi CM, Nardi M, Palamara G, Varrà GG, Saro R, Allegro V, Merlo M, Sinagra G, Metra M, Emdin M, Rapezzi C. Left ventricular wall thickness and severity of cardiac disease in women and men with transthyretin amyloidosis. *Eur J Heart Fail*. 2023 Apr;25(4):510-514. doi: 10.1002/ehf.2824. Epub 2023 Mar 15. PMID: 36919654.

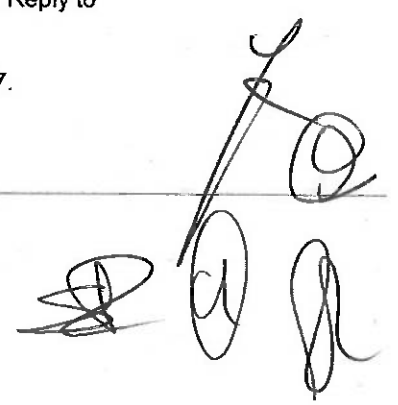
14: Toma M, Miceli R, Bonsante E, Colombo D, Confalonieri M, Garascia A, Ghio S, Lattanzio M, Lombardi CM, Paciocco G, Piccinino C, Rota I, Santolamazza C, Scelsi L, Scuri P, Stolfo D, Vincenzi A, Volpiano L, Vicenzi M, Ameri P. Left Heart Disease Phenotype in Elderly Patients with Pulmonary Arterial Hypertension: Insights from the Italian PATRIARCA Registry. *J Clin Med*. 2022 Nov 30;11(23):7136. doi: 10.3390/jcm11237136. PMID: 36498710; PMCID: PMC9735657.

15: Branca L, Tomasoni D, Cimino G, Cersosimo A, Lombardi CM, Chizzola G, Metra M, Adamo M. Impact and predictors of device-related thrombus after percutaneous left atrial appendage closure. *J Cardiovasc Med (Hagerstown)*. 2023 Jan 1;24(1):12-19. doi: 10.2459/JCM.0000000000001394. Epub 2022 Nov 22. PMID: 36440764.

16: Cimino G, Pancaldi E, Tomasoni D, Lombardi CM, Metra M, Adamo M. Updates in heart failure: sodium glucose co-transporter 2 inhibitors and beyond - major changes are coming. *J Cardiovasc Med (Hagerstown)*. 2022 Dec 1;23(12):761-769. doi: 10.2459/JCM.0000000000001409. PMID: 36349941.

17: Badagliacca R, D'Alto M, Ghio S, Argiento P, Brunetti ND, Casu G, Cedrone N, Confalonieri M, Corda M, Correale M, D'Agostino C, De Michele L, Di Marino S, Filomena D, Galgano G, Greco A, Lombardi C, Manzi G, Mercurio V, Mulè M, Paciocco G, Papa S, Romeo E, Scelsi L, Stolfo D, Vitulo P, Vizza CD. Relevance of comorbidities on initial combination therapy in pulmonary arterial hypertension. *ERJ Open Res*. 2022 Nov 7;8(4):00298-2022. doi: 10.1183/23120541.00298-2022. PMID: 36382240; PMCID: PMC9638831.

18: Inciardi RM, Pagnesi M, Lombardi CM, Solomon SD, Voors AA, Metra M. Reply to the letter regarding the article 'Clinical implications of left atrial changes after optimization of medical therapy in patients with heart failure'. *Eur J Heart Fail*. 2023 Jan;25(1):133-134. doi: 10.1002/ehf.2713. Epub 2022 Nov 7. PMID: 36221805.

Handwritten signatures and initials in black ink, located at the bottom right of the page. There are several distinct marks, including what appears to be a large signature and some smaller initials or scribbles.

19: Toto F, Salvioni E, Magri D, Sciomer S, Piepoli M, Badagliacca R, Galotta A, Baracchini N, Paolillo S, Corrà U, Raimondo R, Lagioia R, Filardi PP, Iorio A, Senni M, Correale M, Cicoira M, Perna E, Metra M, Guazzi M, Limongelli G, Sinagra G, Parati G, Cattadori G, Bandera F, Bussotti M, Mapelli M, Cipriani M, Bonomi A, Cunha G, Re F, Vignati C, Garascia A, Lombardi C, Scardovi AB, Passantino A, Emdin M, Passino C, Santolamazza C, Girola D, Zaffalon D, Vizza D, De Martino F, Agostoni P; MECKI score research group. Does moderate hyperkalemia influence survival in HF? Insights from the MECKI score data base. *Int J Cardiol.* 2023 Jan 15;371:273-277. doi: 10.1016/j.ijcard.2022.09.030. Epub 2022 Sep 15. PMID: 36115445.

20: Corrà U, Piepoli MF, Giordano A, Doni F, Magini A, Bonomi A, Salvioni E, Lagioia R, Limongelli G, Paolillo S, Magri D, Filardi PP, Sinagra G, Scardovi AB, Metra M, Senni M, Scrutinio D, Raimondo R, Emdin M, Cattadori G, Parati G, Re F, Cicoira M, Minà C, Correale M, Frigerio M, Perna E, Bussotti M, Battaia E, Guazzi M, Bandera F, Badagliacca R, Lenarda AD, Maggioni A, Passino C, Sciomer S, Pacileo G, Mapelli M, Vignati C, Clemenza F, Lombardi C, Agostoni P; MECKI score research group (see appendix). Revisiting a Prognosticating Algorithm from Cardiopulmonary Exercise Testing in Chronic Heart Failure (from the MECKI Score Population). *Am J Cardiol.* 2022 Oct 1;180:65-71. doi: 10.1016/j.amjcard.2022.06.034. Epub 2022 Jul 30. PMID: 35914972.

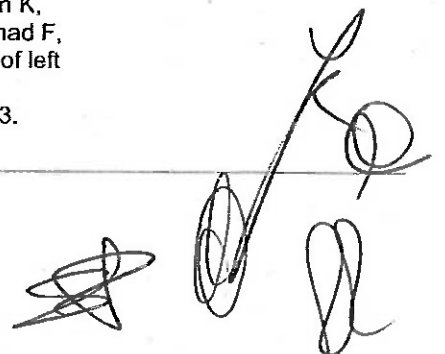
21: Amore L, Alghisi F, Pancaldi E, Pascariello G, Cersosimo A, Cimino G, Bernardi N, Calvi E, Lombardi CM, Sciatti E, Vizzardi E, Metra M. Study of endothelial function and vascular stiffness in patients affected by dilated cardiomyopathy on treatment with sacubitril/valsartan. *Am J Cardiovasc Dis.* 2022 Jun 15;12(3):125-135. PMID: 35873182; PMCID: PMC9301027.

22: Tomasoni D, Aimo A, Merlo M, Nardi M, Adamo M, Bellicini MG, Cani D, Franzini M, Khalil A, Pancaldi E, Panichella G, Porcari A, Rossi M, Vergaro G, Lombardi CM, Sinagra G, Rapezzi C, Emdin M, Metra M. Value of the HFA-PEFF and H₂FPEF scores in patients with heart failure and preserved ejection fraction caused by cardiac amyloidosis. *Eur J Heart Fail.* 2022 Dec;24(12):2374-2386. doi: 10.1002/ejhf.2616. Epub 2022 Aug 15. PMID: 35855616; PMCID: PMC10087855.

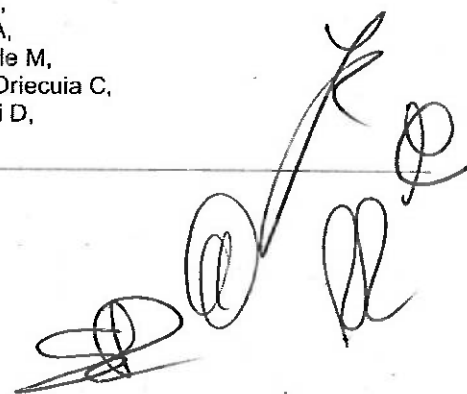
23: Vezzoli M, Inciardi RM, Oriecuia C, Paris S, Murillo NH, Agostoni P, Ameri P, Bellasi A, Camporotondo R, Canale C, Carubelli V, Carugo S, Catagnano F, Danzi G, Dalla Vecchia L, Giovinazzo S, Gneccchi M, Guazzi M, Iorio A, La Rovere MT, Leonardi S, Maccagni G, Mapelli M, Margonato D, Merlo M, Monzo L, Mortara A, Nuzzi V, Pagnesi M, Piepoli M, Porto I, Pozzi A, Provenzale G, Sarullo F, Senni M, Sinagra G, Tomasoni D, Adamo M, Volterrani M, Maroldi R, Metra M, Lombardi CM, Specchia C. Machine learning for prediction of in-hospital mortality in coronavirus disease 2019 patients: results from an Italian multicenter study. *J Cardiovasc Med (Hagerstown).* 2022 Jul 1;23(7):439-446. doi: 10.2459/JCM.0000000000001329. PMID: 35763764.

24: Salvioni E, Mapelli M, Bonomi A, Magri D, Piepoli M, Frigerio M, Paolillo S, Corrà U, Raimondo R, Lagioia R, Badagliacca R, Filardi PP, Senni M, Correale M, Cicoira M, Perna E, Metra M, Guazzi M, Limongelli G, Sinagra G, Parati G, Cattadori G, Bandera F, Bussotti M, Re F, Vignati C, Lombardi C, Scardovi AB, Sciomer S, Passantino A, Emdin M, Passino C, Santolamazza C, Girola D, Zaffalon D, De Martino F, Agostoni P; MECKI Score Research Group. Pick Your Threshold: A Comparison Among Different Methods of Anaerobic Threshold Evaluation in Heart Failure Prognostic Assessment. *Chest.* 2022 Nov;162(5):1106-1115. doi: 10.1016/j.chest.2022.05.039. Epub 2022 Jun 24. PMID: 35753386.

25: Inciardi RM, Pagnesi M, Lombardi CM, Anker SD, Cleland JG, Dickstein K, Filippatos GS, Lang CC, Ng LL, Pellicori P, Ponikowski P, Samani NJ, Zannad F, van Veldhuisen DJ, Solomon SD, Voors AA, Metra M. Clinical implications of left atrial changes after optimization of medical therapy in patients with heart failure. *Eur J Heart Fail.* 2022 Nov;24(11):2131-2139. doi: 10.1002/ejhf.2593. Epub 2022 Jul 12. PMID: 35748048; PMCID: PMC10084101.



- 26: Carrozzini M, Bottio T, Caraffa R, Bejko J, Bifulco O, Guariento A, Lombardi CM, Metra M, Azzolina D, Gregori D, Fedrigo M, Castellani C, Tarzia V, Toscano G, Gambino A, Jorgji V, Ferrari E, Angelini A, Gerosa G. Impact of Continuous Flow Left Ventricular Assist Device on Heart Transplant Candidates: A Multi-State Survival Analysis. *J Clin Med*. 2022 Jun 14;11(12):3425. doi: 10.3390/jcm11123425. PMID: 35743495; PMCID: PMC9225476.
- 27: Pagnesi M, Lombardi CM, Chiarito M, Stolfo D, Baldetti L, Loiacono F, Tedino C, Arrigoni L, Ghiraldin D, Tomasoni D, Inciardi RM, Maccallini M, Villaschi A, Gasparini G, Montella M, Contessi S, Cocianni D, Perotto M, Barone G, Merlo M, Cappelletti AM, Sinagra G, Pini D, Metra M. Prognostic impact of the updated 2018 HFA-ESC definition of advanced heart failure: results from the HELP-HF registry. *Eur J Heart Fail*. 2022 Sep;24(9):1493-1503. doi: 10.1002/ehf.2561. Epub 2022 May 31. PMID: 35603658; PMCID: PMC9796314.
- 28: Cersosimo A, Cimino G, Amore L, Calvi E, Pascariello G, Inciardi RM, Lombardi CM, Vizzardi E, Metra M. Cardiac biomarkers and mortality in COVID-19 infection: A review. *Monaldi Arch Chest Dis*. 2022 Jun 23;93(1). doi: 10.4081/monaldi.2022.2276. PMID: 35736404.
- 29: Inciardi RM, Bonelli A, Biering-Sorensen T, Cameli M, Pagnesi M, Lombardi CM, Solomon SD, Metra M. Left atrial disease and left atrial reverse remodelling across different stages of heart failure development and progression: a new target for prevention and treatment. *Eur J Heart Fail*. 2022 Jun;24(6):959-975. doi: 10.1002/ehf.2562. Epub 2022 Jun 6. PMID: 35598167; PMCID: PMC9542359.
- 30: Lombardi CM, Carubelli V, Peveri G, Inciardi RM, Pagnesi M, Ravera A, Tomasoni D, Garafa E, Oriecuia C, Specchia C, Metra M. Prognostic significance of serum potassium in patients hospitalized for acute heart failure. *ESC Heart Fail*. 2022 Aug;9(4):2357-2366. doi: 10.1002/ehf2.13925. Epub 2022 May 11. PMID: 35543336; PMCID: PMC9288753.
- 31: Tomasoni D, Vishram-Nielsen JKK, Pagnesi M, Adamo M, Lombardi CM, Gustafsson F, Metra M. Advanced heart failure: guideline-directed medical therapy, diuretics, inotropes, and palliative care. *ESC Heart Fail*. 2022 Jun;9(3):1507-1523. doi: 10.1002/ehf2.13859. Epub 2022 Mar 30. PMID: 35352499; PMCID: PMC9065830.
- 32: Badagliacca R, Papa S, D'Alto M, Ghio S, Agostoni P, Ameri P, Argiento P, Brunetti ND, Casamassima V, Casu G, Cedrone N, Confalonieri M, Corda M, Correale M, D'Agostino C, De Michele L, Famoso G, Galgano G, Greco A, Lombardi CM, Manzi G, Madonna R, Mercurio V, Mulè M, Paciocco G, Romaniello A, Romeo E, Scelsi L, Serra W, Stolfo D, Toma M, Vatrano M, Vitulo P, Vizza CD; italian Pulmonary Hypertension NETwork (iPHNET). The paradox of pulmonary arterial hypertension in Italy in the COVID-19 era: is risk of disease progression around the corner? *Eur Respir J*. 2022 Oct 6;60(4):2102276. doi: 10.1183/13993003.02276-2021. PMID: 35301247; PMCID: PMC9535117.
- 33: Pagnesi M, Adamo M, Sama IE, Anker SD, Cleland JG, Dickstein K, Filippatos GS, Inciardi RM, Lang CC, Lombardi CM, Ng LL, Ponikowski P, Samani NJ, Zannad F, van Veldhuisen DJ, Voors AA, Metra M. Clinical impact of changes in mitral regurgitation severity after medical therapy optimization in heart failure. *Clin Res Cardiol*. 2022 Aug;111(8):912-923. doi: 10.1007/s00392-022-01991-7. Epub 2022 Mar 16. PMID: 35294624; PMCID: PMC9334376.
- 34: Lombardi CM, Specchia C, Conforti F, Rovere MT, Carubelli V, Agostoni P, Carugo S, Danzi GB, Guazzi M, Mortara A, Piepoli M, Porto I, Sinagra G, Volterrani M, Ameri P, Gneocchi M, Leonardi S, Merlo M, Iorio A, Bellasi A, Canale C, Camporotondo R, Catagnano F, Dalla Vecchia LA, Di Pasquale M, Giovinazzo S, Maccagni G, Mapelli M, Margonato D, Monzo L, Nuzzi V, Oriecuia C, Pala L, Peveri G, Pozzi A, Provenzale G, Sarullo F, Adamo M, Tomasoni D, Inciardi RM, Senni M, Metra M. Sex-related differences in patients with



coronavirus disease 2019: results of the Cardio-COVID-Italy multicentre study. *J Cardiovasc Med (Hagerstown)*. 2022 Apr 1;23(4):254-263. doi: 10.2459/JCM.0000000000001261. PMID: 35287158.

35: Iorio A, Lombardi CM, Specchia C, Merlo M, Nuzzi V, Ferraro I, Peveri G, Oriecuia C, Pozzi A, Inciardi RM, Carubelli V, Bellasi A, Canale C, Camporotondo R, Catagnano F, Dalla Vecchia L, Giovinazzo S, Maccagni G, Mapelli M, Margonato D, Monzo L, Provenzale G, Sarullo F, Tomasoni D, Ameri P, Gneccchi M, Leonardi S, Agostoni P, Carugo S, Danzi GB, Guazzi M, La Rovere MT, Mortara A, Piepoli M, Porto I, Volterrani M, Sinagra G, Senni M, Metra M. Combined Role of Troponin and Natriuretic Peptides Measurements in Patients With Covid-19 (from the Cardio-COVID-Italy Multicenter Study). *Am J Cardiol*. 2022 Mar 15;167:125-132. doi: 10.1016/j.amjcard.2021.11.054. Epub 2022 Jan 19. PMID: 35063263; PMCID: PMC8767953.

36: Pagnesi M, Baldetti L, Aimo A, Inciardi RM, Tomasoni D, Vizzardi E, Vergaro G, Emdin M, Lombardi CM. Prognostic Benefit of New Drugs for HFrEF: A Systematic Review and Network Meta-Analysis. *J Clin Med*. 2022 Jan 11;11(2):348. doi: 10.3390/jcm11020348. PMID: 35054042; PMCID: PMC8777808.

37: Del Franco A, Ambrosio G, Baroncelli L, Pizzorusso T, Barison A, Olivetto I, Recchia FA, Lombardi CM, Metra M, Ferrari Chen YF, Passino C, Emdin M, Vergaro G. Creatine deficiency and heart failure. *Heart Fail Rev*. 2022 Sep;27(5):1605-1616. doi: 10.1007/s10741-021-10173-y. Epub 2021 Oct 7. PMID: 34618287; PMCID: PMC9388465.

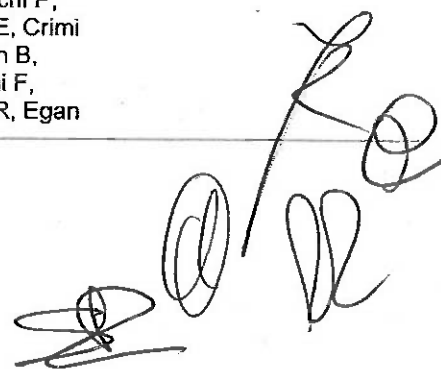
38: Ghio S, Montalto C, Pagnesi M, Lupi L, Cappelletti A, Baldetti L, Baldi E, Lombardi C, Metra M, Perlini S, Oltrona Visconti L. High troponin levels in patients hospitalized for coronavirus disease 2019: a marker or a marker of prognosis? *J Cardiovasc Med (Hagerstown)*. 2021 Nov 1;22(11):828-831. doi: 10.2459/JCM.0000000000001249. PMID: 34519287.

39: Lombardi CM, Cimino G, Pellicori P, Bonelli A, Inciardi RM, Pagnesi M, Tomasoni D, Ravera A, Adamo M, Carubelli V, Metra M. Congestion in Patients with Advanced Heart Failure: Assessment and Treatment. *Heart Fail Clin*. 2021 Oct;17(4):575-586. doi: 10.1016/j.hfc.2021.05.003. Epub 2021 Jul 22. PMID: 34511206.

40: Merlo M, Porcari A, Pagura L, Cameli M, Vergaro G, Musumeci B, Biagini E, Canepa M, Crotti L, Imazio M, Forleo C, Cappelli F, Favale S, Di Bella G, Dore F, Lombardi CM, Pavasini R, Rella V, Palmiero G, Caiazza M, Albanese M, Guaricci AI, Branzi G, Caponetti AG, Satrio G, La Malfa G, Merlo AC, Andreis A, Bruno F, Longo F, Sfriso E, Di Ienno L, De Carli G, Giacomini E, Spini V, Milidoni A, Limongelli G, Autore C, Olivetto I, Badano L, Parati G, Perlini S, Metra M, Emdin M, Rapezzi C, Sinagra G. A national survey on prevalence of possible echocardiographic red flags of amyloid cardiomyopathy in consecutive patients undergoing routine echocardiography: study design and patients characterization - the first insight from the AC-TIVE Study. *Eur J Prev Cardiol*. 2022 May 5;29(5):e173-e177. doi: 10.1093/eurjpc/zwab127. PMID: 34499711.

41: Lombardi CM, Cimino G, Pagnesi M, Dell'Aquila A, Tomasoni D, Ravera A, Inciardi R, Carubelli V, Vizzardi E, Nodari S, Emdin M, Aimo A. Vericiguat for Heart Failure with Reduced Ejection Fraction. *Curr Cardiol Rep*. 2021 Aug 19;23(10):144. doi: 10.1007/s11886-021-01580-6. PMID: 34410527; PMCID: PMC8376697.

42: Bettioli A, Urban ML, Dagna L, Cottin V, Franceschini F, Del Giacco S, Schiavon F, Neumann T, Lopalco G, Novikov P, Baldini C, Lombardi C, Berti A, Alberici F, Folci M, Negrini S, Sinico RA, Quartuccio L, Lunardi C, Parronchi P, Moosig F, Espógo-Frigolé G, Schroeder J, Kernder AL, Monti S, Silvagni E, Crimi C, Cinetto F, Fraticelli P, Roccatello D, Vacca A, Mohammad AJ, Hellmich B, Samson M, Bargagli E, Cohen Tervaert JW, Ribi C, Fiori D, Bello F, Fagni F, Moroni L, Ramirez GA, Nasser M, Marvisi C, Toniatì P, Firinu D, Padoan R, Egan



A, Seeliger B, Iannone F, Salvarani C, Jayne D, Prisco D, Vaglio A, Emmi G; European EGPA Study Group. Mepolizumab for Eosinophilic Granulomatosis With Polyangiitis: A European Multicenter Observational Study. *Arthritis Rheumatol*. 2022 Feb;74(2):295-306. doi: 10.1002/art.41943. Epub 2021 Dec 30. PMID: 34347947; PMCID: PMC9305132.

43: Paris S, Inciardi RM, Lombardi CM, Tomasoni D, Ameri P, Carubelli V, Agostoni P, Canale C, Carugo S, Danzi G, Di Pasquale M, Sarullo F, La Rovere MT, Mortara A, Piepoli M, Porto I, Sinagra G, Volterrani M, Gneccchi M, Leonardi S, Merlo M, Iorio A, Giovinazzo S, Bellasi A, Zaccone G, Camporotondo R, Catagnano F, Dalla Vecchia L, Maccagni G, Mapelli M, Margonato D, Monzo L, Nuzzi V, Pozzi A, Provenzale G, Specchia C, Tedino C, Guazzi M, Senni M, Metra M. Implications of atrial fibrillation on the clinical course and outcomes of hospitalized COVID-19 patients: results of the Cardio-COVID-Italy multicentre study. *Europace*. 2021 Oct 9;23(10):1603-1611. doi: 10.1093/europace/euab146. PMID: 34297833; PMCID: PMC8344555.

44: Aimo A, Castiglione V, Vergaro G, Panichella G, Senni M, Lombardi CM, Emdin M. The place of vericiguat in the landscape of treatment for heart failure with reduced ejection fraction. *Heart Fail Rev*. 2022 Jul;27(4):1165-1171. doi: 10.1007/s10741-021-10146-1. Epub 2021 Jul 21. PMID: 34291399; PMCID: PMC9197896.

45: Pancaldi E, Pascariello G, Cimino G, Cersosimo A, Amore L, Alghisi F, Bernardi N, Calvi E, Lombardi CM, Vizzardi E, Metra M. Thrombotic risk in patients with COVID-19. *Rev Cardiovasc Med*. 2021 Jun 30;22(2):277-286. doi: 10.31083/j.rcm2202035. PMID: 34258896.

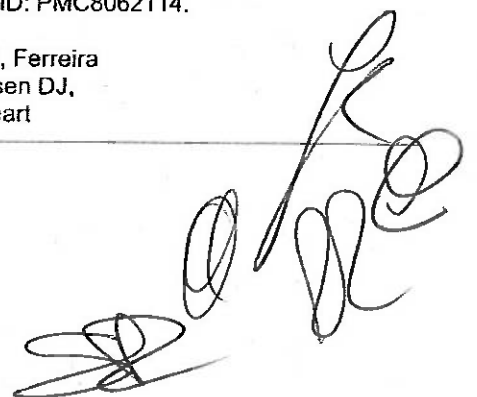
46: Nuzzi V, Merlo M, Specchia C, Lombardi CM, Carubelli V, Iorio A, Inciardi RM, Bellasi A, Canale C, Camporotondo R, Catagnano F, Dalla Vecchia LA, Giovinazzo S, Maccagni G, Mapelli M, Margonato D, Monzo L, Oriecuia C, Peveri G, Pozzi A, Provenzale G, Sarullo F, Tomasoni D, Ameri P, Gneccchi M, Leonardi S, Agostoni P, Carugo S, Danzi GB, Guazzi M, La Rovere MT, Mortara A, Piepoli M, Porto I, Volterrani M, Senni M, Metra M, Sinagra G. The prognostic value of serial troponin measurements in patients admitted for COVID-19. *ESC Heart Fail*. 2021 Oct;8(5):3504-3511. doi: 10.1002/ehf2.13462. Epub 2021 Jul 8. PMID: 34236135; PMCID: PMC8426962.

47: Pagnesi M, Inciardi RM, Lombardi CM, Agostoni P, Ameri P, Barbieri L, Bellasi A, Camporotondo R, Canale C, Carubelli V, Carugo S, Catagnano F, Dalla Vecchia LA, Danzi GB, Di Pasquale M, Gaudenzi M, Giovinazzo S, Gneccchi M, Guazzi M, Iorio A, La Rovere MT, Leonardi S, Maccagni G, Mapelli M, Margonato D, Merlo M, Monzo L, Mortara A, Nuzzi V, Piepoli M, Porto I, Pozzi A, Sarullo F, Sinagra G, Tedino C, Tomasoni D, Volterrani M, Zaccone G, Senni M, Metra M. Determinants of the protective effect of glucocorticoids on mortality in hospitalized patients with COVID-19: Insights from the Cardio-COVID-Italy multicenter study. *Int J Infect Dis*. 2021 Jul;108:270-273. doi: 10.1016/j.ijid.2021.05.056. Epub 2021 May 28. PMID: 34052406; PMCID: PMC8159705.

48: Pascariello G, Cimino G, Calvi E, Bernardi N, Grigolato M, Garyfallidis P, Fabbriatore D, Pezzola E, Lombardi CM, Metra M, Vizzardi E. Cardiogenic Shock due to COVID-19-Related Myocarditis in a 19-Year-Old Autistic Patient. *J Med Cases*. 2020 Jul;11(7):207-210. doi: 10.14740/jmc3517. Epub 2020 Jun 29. PMID: 33984092; PMCID: PMC8040434.

49: Zaccone G, Tomasoni D, Italia L, Lombardi CM, Metra M. Myocardial Involvement in COVID-19: an Interaction Between Comorbidities and Heart Failure with Preserved Ejection Fraction. A Further Indication of the Role of Inflammation. *Curr Heart Fail Rep*. 2021 Jun;18(3):99-106. doi: 10.1007/s11897-021-00509-y. Epub 2021 Apr 22. PMID: 33890193; PMCID: PMC8062114.

50: Ravera A, Santema BT, Sama IE, Meyer S, Lombardi CM, Carubelli V, Ferreira JP, Lang CC, Dickstein K, Anker SD, Samani NJ, Zannad F, van Veldhuisen DJ, Teerlink JR, Metra M, Voors AA. Quality of life in men and women with heart



failure: association with outcome, and comparison between the Kansas City Cardiomyopathy Questionnaire and the EuroQol 5 dimensions questionnaire. *Eur J Heart Fail.* 2021 Apr;23(4):567-577. doi: 10.1002/ehf.2154. Epub 2021 May 4. PMID: 33728762; PMCID: PMC8252457.

51: Carubelli V, Lombardi C, Specchia C, Peveri G, Oriecua C, Tomasoni D, Di Pasquale M, Inciardi R, Garrafa E, Metra M. Adherence and optimization of angiotensin converting enzyme inhibitor/angiotensin II receptors blockers and beta-blockers in patients hospitalized for acute heart failure. *ESC Heart Fail.* 2021 Jun;8(3):1944-1953. doi: 10.1002/ehf2.13223. Epub 2021 Mar 4. PMID: 33660949; PMCID: PMC8120409.

52: Chubuchny V, Pugliese NR, Taddei C, Poggianti E, Spini V, Barison A, Formichi B, Airò E, Bauleo C, Prediletto R, Pastormerlo LE, Coceani M, Ciardetti M, Petersen C, Pasanisi E, Lombardi C, Emdin M, Giannoni A. A novel echocardiographic method for estimation of pulmonary artery wedge pressure and pulmonary vascular resistance. *ESC Heart Fail.* 2021 Apr;8(2):1216-1229. doi: 10.1002/ehf2.13183. Epub 2021 Feb 10. PMID: 33566429; PMCID: PMC8006655.

53: Castiglione V, Franzini M, Aimo A, Carecci A, Lombardi CM, Passino C, Rapezzi C, Emdin M, Vergaro G. Use of biomarkers to diagnose and manage cardiac amyloidosis. *Eur J Heart Fail.* 2021 Feb;23(2):217-230. doi: 10.1002/ehf.2113. Epub 2021 Feb 21. PMID: 33527656.

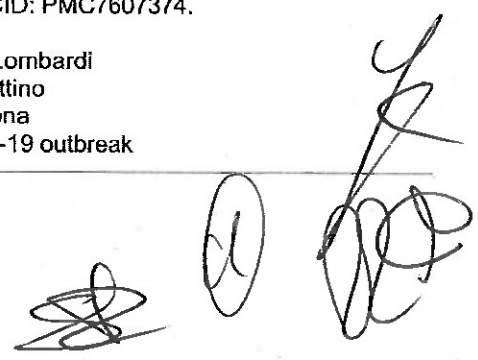
54: Bottio T, Bagozzi L, Fiocco A, Nadali M, Caraffa R, Bifulco O, Ponzoni M, Lombardi CM, Metra M, Russo CF, Frigerio M, Masciocco G, Potena L, Loforte A, Pacini D, Faggian G, Onorati F, Sponga S, Livi U, Iacovoni A, Terzi A, Senni M, Rinaldi M, Boffini M, Marro M, Jorgji V, Carrozzini M, Gerosa G. COVID-19 in Heart Transplant Recipients: A Multicenter Analysis of the Northern Italian Outbreak. *JACC Heart Fail.* 2021 Jan;9(1):52-61. doi: 10.1016/j.jchf.2020.10.009. Epub 2020 Oct 29. PMID: 33309578; PMCID: PMC7604081.

55: Tomasoni D, Inciardi RM, Lombardi CM, Tedino C, Agostoni P, Ameri P, Barbieri L, Bellasi A, Camporotondo R, Canale C, Carubelli V, Carugo S, Catagnano F, Dalla Vecchia LA, Danzi GB, Di Pasquale M, Gaudenzi M, Giovinazzo S, Gneccchi M, Iorio A, La Rovere MT, Leonardi S, Maccagni G, Mapelli M, Margonato D, Merlo M, Monzo L, Mortara A, Nuzzi V, Piepoli M, Porto I, Pozzi A, Sarullo F, Sinagra G, Volterrani M, Zaccone G, Guazzi M, Senni M, Metra M. Impact of heart failure on the clinical course and outcomes of patients hospitalized for COVID-19. Results of the Cardio-COVID-Italy multicentre study. *Eur J Heart Fail.* 2020 Dec;22(12):2238-2247. doi: 10.1002/ehf.2052. Epub 2020 Nov 27. PMID: 33179839.

56: Caraffa R, Bagozzi L, Fiocco A, Bifulco O, Nadali M, Ponzoni M, Carrozzini M, Toscano G, Fraiese AP, Metra M, Lombardi CM, Serafini F, Ribola A, Jorgji V, Bottio T, Gerosa G. Coronavirus disease 2019 (COVID-19) in the heart transplant population: a single-centre experience. *Eur J Cardiothorac Surg.* 2020 Nov 1;58(5):899-906. doi: 10.1093/ejcts/ezaa323. PMID: 33084868; PMCID: PMC7665480.

57: Ameri P, Inciardi RM, Di Pasquale M, Agostoni P, Bellasi A, Camporotondo R, Canale C, Carubelli V, Carugo S, Catagnano F, Danzi G, Dalla Vecchia L, Giovinazzo S, Gneccchi M, Guazzi M, Iorio A, La Rovere MT, Leonardi S, Maccagni G, Mapelli M, Margonato D, Merlo M, Monzo L, Mortara A, Nuzzi V, Piepoli M, Porto I, Pozzi A, Provenzale G, Sarullo F, Sinagra G, Tedino C, Tomasoni D, Volterrani M, Zaccone G, Lombardi CM, Senni M, Metra M. Pulmonary embolism in patients with COVID-19: characteristics and outcomes in the Cardio-COVID Italy multicenter study. *Clin Res Cardiol.* 2021 Jul;110(7):1020-1028. doi: 10.1007/s00392-020-01766-y. Epub 2020 Nov 3. PMID: 33141251; PMCID: PMC7607374.

58: Carugo S, Ferlini M, Castini D, Andreassi A, Guagliumi G, Metra M, Lombardi C, Cuccia C, Savonitto S, Piatti L, D'Urbano M, Lettieri C, Vandoni P, Lettino M, Marenzi G, Montorfano M, Zangrillo A, Castiglioni B, De Ponti R, Oltrona Visconti L. Management of acute coronary syndromes during the COVID-19 outbreak



in Lombardy: The "macro-hub" experience. *Int J Cardiol Heart Vasc*. 2020 Dec;31:100662. doi: 10.1016/j.ijcha.2020.100662. Epub 2020 Nov 3. PMID: 33173807; PMCID: PMC7609053.

59: Aimo A, Pateras K, Stamatelopoulos K, Bayes-Genis A, Lombardi CM, Passino C, Emdin M, Georgiopoulos G. Relative Efficacy of Sacubitril-Valsartan, Vericiguat, and SGLT2 Inhibitors in Heart Failure with Reduced Ejection Fraction: a Systematic Review and Network Meta-Analysis. *Cardiovasc Drugs Ther*. 2021 Oct;35(5):1067-1076. doi: 10.1007/s10557-020-07099-2. Epub 2020 Oct 19. PMID: 33074526.

60: Emdin M, Aimo A, Castiglione V, Vergaro G, Georgiopoulos G, Saccaro LF, Lombardi CM, Passino C, Cerbai E, Metra M, Senni M. Targeting Cyclic Guanosine Monophosphate to Treat Heart Failure: JACC Review Topic of the Week. *J Am Coll Cardiol*. 2020 Oct 13;76(15):1795-1807. doi: 10.1016/j.jacc.2020.08.031. PMID: 33032741.

61: Tomasoni D, Adamo M, Italia L, Branca L, Chizzola G, Fiorina C, Lupi L, Inciardi RM, Cani DS, Lombardi CM, Curello S, Metra M. Impact of COVID-2019 outbreak on prevalence, clinical presentation and outcomes of ST-elevation myocardial infarction. *J Cardiovasc Med (Hagerstown)*. 2020 Nov;21(11):874-881. doi: 10.2459/JCM.0000000000001098. PMID: 32941325.

62: Badagliacca R, D'Alto M, Ghio S, Argiento P, Bellomo V, Brunetti ND, Casu G, Confalonieri M, Corda M, Correale M, D'Agostino C, De Michele L, Galgano G, Greco A, Lombardi C, Manzi G, Mercurio V, Mulè M, Paciocco G, Papa S, Romeo E, Scelsi L, Stolfo D, Vitulo P, Naeije R, Vizza CD. Risk Reduction and Hemodynamics with Initial Combination Therapy in Pulmonary Arterial Hypertension. *Am J Respir Crit Care Med*. 2021 Feb 15;203(4):484-492. doi: 10.1164/rccm.202004-1006OC. PMID: 32857597.

63: Lombardi CM, Carubelli V, Iorio A, Inciardi RM, Bellasi A, Canale C, Camporotondo R, Calagnano F, Dalla Vecchia LA, Giovinazzo S, Maccagni G, Mapelli M, Margonato D, Monzo L, Nuzzi V, Oriecuia C, Peveri G, Pozzi A, Provenzale G, Sarullo F, Tomasoni D, Ameri P, Gnechchi M, Leonardi S, Merlo M, Agostoni P, Carugo S, Danzi GB, Guazzi M, La Rovere MT, Mortara A, Piepoli M, Porto I, Sinagra G, Volterrani M, Specchia C, Metra M, Senni M. Association of Troponin Levels With Mortality in Italian Patients Hospitalized With Coronavirus Disease 2019: Results of a Multicenter Study. *JAMA Cardiol*. 2020 Nov 1;5(11):1274-1280. doi: 10.1001/jamacardio.2020.3538. PMID: 32845276; PMCID: PMC7450398.

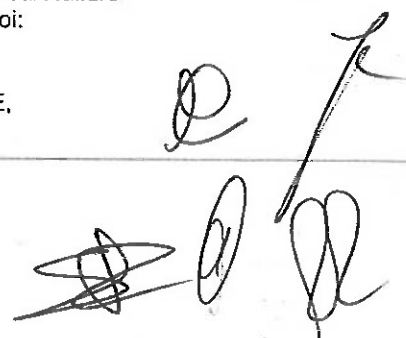
64: Adamo M, Lombardi CM, Metra M. June 2020 at a glance: focus on COVID-19, quality of life and comorbidities. *Eur J Heart Fail*. 2020 Jun;22(6):917-918. doi: 10.1002/ehfj.1515. PMID: 32731308.

65: Lombardi C, Peveri G, Cani D, Latta F, Bonelli A, Tomasoni D, Sbolli M, Ravera A, Carubelli V, Saccani N, Specchia C, Metra M. In-hospital and long-term mortality for acute heart failure: analysis at the time of admission to the emergency department. *ESC Heart Fail*. 2020 Oct;7(5):2650-2661. doi: 10.1002/ehf2.12847. Epub 2020 Jun 26. PMID: 32588981; PMCID: PMC7524058.

66: Paolillo S, Ruocco G, Filardi PP, Palazzuoli A, Tocchetti CG, Nodari S, Lombardi C, Metra M, Correale M; "Right and Left Heart Failure Study Group" of the Italian Society of Cardiology. Direct oral anticoagulants across the heart failure spectrum: the precision medicine era. *Heart Fail Rev*. 2022 Jan;27(1):135-145. doi: 10.1007/s10741-020-09994-0. PMID: 32583229.

67: Adamo M, Lombardi CM, Metra M. May 2020 at a glance: ischaemic heart failure and sex-related differences. *Eur J Heart Fail*. 2020 May;22(5):761-762. doi: 10.1002/ehfj.1513. PMID: 32463581.

68: Magri D, Piepoli M, Corrà U, Gallo G, Maruotti A, Vignati C, Salvioni E, Mapelli M, Paolillo S, Perrone Filardi P, Girola D, Metra M, Scardovi AB,



Lagioia R, Limongelli G, Senni M, Scrutinio D, Emdin M, Passino C, Lombardi C, Cattadori G, Parati G, Cicoira M, Correale M, Frigerio M, Clemenza F, Bussotti M, Guazzi M, Badagliacca R, Sciomer S, Di Lenarda A, Maggioni A, Sinagra G, Volpe M, Agostoni P; MECKI score Research Group (see appendix). Cardiovascular Death Risk in Recovered Mid-Range Ejection Fraction Heart Failure: Insights From Cardiopulmonary Exercise Test. *J Card Fail.* 2020 Nov;26(11):932-943. doi: 10.1016/j.cardfail.2020.04.021. Epub 2020 May 17. PMID: 32428671.

69: Tomasoni D, Italia L, Adamo M, Inciardi RM, Lombardi CM, Solomon SD, Metra M. COVID-19 and heart failure: from infection to inflammation and angiotensin II stimulation. Searching for evidence from a new disease. *Eur J Heart Fail.* 2020 Jun;22(6):957-966. doi: 10.1002/ehf.1871. Epub 2020 Jun 24. PMID: 32412156; PMCID: PMC7273093.

70: Roca E, Lombardi C, Campana M, Vivaldi O, Bigni B, Bertozzi B, Passalacqua G. Takotsubo Syndrome Associated with COVID-19. *Eur J Case Rep Intern Med.* 2020 Apr 21;7(5):001665. doi: 10.12890/2020_001665. PMID: 32399453; PMCID: PMC7213829.

71: Inciardi RM, Adamo M, Lupi L, Cani DS, Di Pasquale M, Tomasoni D, Italia L, Zaccone G, Tedino C, Fabbriatore D, Curnis A, Faggiano P, Gorga E, Lombardi CM, Milesi G, Vizzardi E, Volpini M, Nodari S, Specchia C, Maroldi R, Bezzi M, Metra M. Characteristics and outcomes of patients hospitalized for COVID-19 and cardiac disease in Northern Italy. *Eur Heart J.* 2020 May 14;41(19):1821-1829. doi: 10.1093/eurheartj/ehaa388. Erratum in: *Eur Heart J.* 2020 Dec 21;41(48):4591. PMID: 32383763; PMCID: PMC7239204.

72: Aimo A, Castiglione V, Lombardi CM. Effects of vericiguat in heart failure with reduced ejection fraction: do not forget sST2. Letter regarding the article 'Baseline features of the VICTORIA (Vericiguat Global Study in Subjects with Heart Failure with Reduced Ejection Fraction) trial'. *Eur J Heart Fail.* 2020 Oct;22(10):1934-1935. doi: 10.1002/ehf.1852. Epub 2020 Apr 30. PMID: 32353173.

73: Adamo M, Lombardi CM, Metra M. April 2020 at a glance: epidemiology, prevention, and biomarkers. *Eur J Heart Fail.* 2020 Apr;22(4):570-571. doi: 10.1002/ehf.1511. PMID: 32342579.

74: Tomasoni D, Lombardi CM, Sbolli M, Cotter G, Metra M. Acute heart failure: More questions than answers. *Prog Cardiovasc Dis.* 2020 Sep-Oct;63(5):599-606. doi: 10.1016/j.pcad.2020.04.007. Epub 2020 Apr 10. PMID: 32283133.

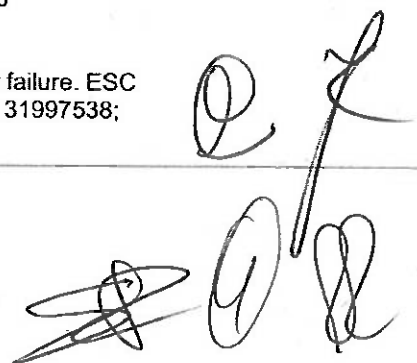
75: Adamo M, Lombardi CM, Metra M. March 2020 at a glance: heart failure with preserved ejection fraction, left atrial myopathy, atrial fibrillation and cardiac amyloidosis. *Eur J Heart Fail.* 2020 Mar;22(3):389-390. doi: 10.1002/ehf.1509. PMID: 32220055.

76: Inciardi RM, Lupi L, Zaccone G, Italia L, Raffo M, Tomasoni D, Cani DS, Cerini M, Farina D, Gavazzi E, Maroldi R, Adamo M, Ammirati E, Sinagra G, Lombardi CM, Metra M. Cardiac Involvement in a Patient With Coronavirus Disease 2019 (COVID-19). *JAMA Cardiol.* 2020 Jul 1;5(7):819-824. doi: 10.1001/jamacardio.2020.1096. PMID: 32219357; PMCID: PMC7364333.

77: Adamo M, Lombardi CM, Metra M. February 2020 at a glance: acute heart failure and cardio-oncology. *Eur J Heart Fail.* 2020 Feb;22(2):171-172. doi: 10.1002/ehf.1507. PMID: 32103610.

78: Adamo M, Lombardi CM, Metra M. January 2020 at a glance: translational medicine, predictors of outcome and treatments. *Eur J Heart Fail.* 2020 Jan;22(1):1-2. doi: 10.1002/ehf.1505. PMID: 32003135.

79: Tomasoni D, Adamo M, Lombardi CM, Metra M. Highlights in heart failure. *ESC Heart Fail.* 2019 Dec;6(6):1105-1127. doi: 10.1002/ehf2.12555. PMID: 31997538; PMCID: PMC6989277.



80: Lombardi CM, Ferreira JP, Carubelli V, Anker SD, Cleland JG, Dickstein K, Filippatos G, Lang CC, Ng LL, Ponikowski P, Samani NJ, van Veldhuisen DJ, Zannad F, Voors A, Metra M. Geographical differences in heart failure characteristics and treatment across Europe: results from the BIOSTAT-CHF study. *Clin Res Cardiol.* 2020 Aug;109(8):967-977. doi: 10.1007/s00392-019-01588-7. Epub 2020 Jan 29. PMID: 31996990.

81: Carubelli V, Zhang Y, Metra M, Lombardi C, Felker GM, Filippatos G, O'Connor CM, Teerlink JR, Simmons P, Segal R, Malfatto G, La Rovere MT, Li D, Han X, Yuan Z, Yao Y, Li B, Lau LF, Bianchi G, Zhang J; Istaroxime ADHF Trial Group. Treatment with 24 hour istaroxime infusion in patients hospitalised for acute heart failure: a randomised, placebo-controlled trial. *Eur J Heart Fail.* 2020 Sep;22(9):1684-1693. doi: 10.1002/ejhf.1743. Epub 2020 Jan 23. PMID: 31975496.

82: Salvioni E, Corrà U, Piepoli M, Rovai S, Correale M, Paolillo S, Pasquali M, Magri D, Vitale G, Fusini L, Mapelli M, Vignati C, Lagioia R, Raimondo R, Sinagra G, Boggio F, Cangiano L, Gallo G, Magini A, Contini M, Palermo P, Apostolo A, Pezzuto B, Bonomi A, Scardovi AB, Filardi PP, Limongelli G, Metra M, Scrutinio D, Emdin M, Piccioli L, Lombardi C, Cattadori G, Parati G, Caravita S, Re F, Cicoira M, Frigerio M, Clemenza F, Bussotti M, Battaia E, Guazzi M, Bandera F, Badagliacca R, Di Lenarda A, Pacileo G, Passino C, Sciomer S, Ambrosio G, Agostoni P; MECKI score research group. Gender and age normalization and ventilation efficiency during exercise in heart failure with reduced ejection fraction. *ESC Heart Fail.* 2020 Feb;7(1):371-380. doi: 10.1002/ehf2.12582. Epub 2020 Jan 1. PMID: 31893579; PMCID: PMC7083437.

83: Adamo M, Lombardi CM, Metra M. December 2019 at a glance: economic burden, co-morbidities, and prognosis. *Eur J Heart Fail.* 2019 Dec;21(12):1485-1486. doi: 10.1002/ejhf.1276. PMID: 31889423.

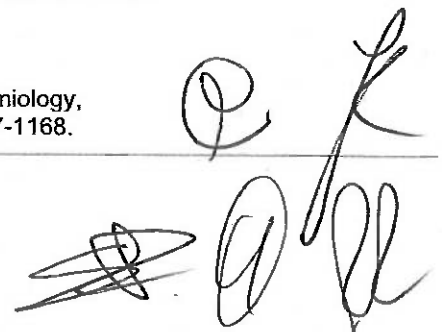
84: Piepoli MF, Salvioni E, Corrà U, Doni F, Bonomi A, La Gioia R, Limongelli G, Paolillo S, Sinagra G, Scardovi AB, Raimondo R, Emdin M, Re F, Cicoira M, Correale M, Badagliacca R, Clemenza F, Lombardi C, Agostoni P. Increased serum uric acid level predicts poor prognosis in mildly severe chronic heart failure with reduced ejection fraction. An analysis from the MECKI score research group. *Eur J Intern Med.* 2020 Feb;72:47-52. doi: 10.1016/j.ejim.2019.11.003. Epub 2019 Nov 29. PMID: 31787490.

85: Rovai S, Corrà U, Piepoli M, Vignati C, Salvioni E, Bonomi A, Mattavelli I, Arcari L, Scardovi AB, Perrone Filardi P, Lagioia R, Paolillo S, Magri D, Limongelli G, Metra M, Senni M, Scrutinio D, Raimondo R, Emdin M, Lombardi C, Cattadori G, Parati G, Re F, Cicoira M, Villani GQ, Minà C, Correale M, Frigerio M, Perna E, Mapelli M, Magini A, Clemenza F, Bussotti M, Battaia E, Guazzi M, Bandera F, Badagliacca R, Di Lenarda A, Pacileo G, Maggioni A, Passino C, Sciomer S, Sinagra G, Agostoni P; MECKI Score Research Group (see Appendix 1). Exercise oscillatory ventilation and prognosis in heart failure patients with reduced and mid-range ejection fraction. *Eur J Heart Fail.* 2019 Dec;21(12):1586-1595. doi: 10.1002/ejhf.1595. Epub 2019 Nov 28. PMID: 31782225.

86: Zimarino M, Ricci F, Capodanno D, De Innocentiis C, Verrengia E, Swaans MJ, Lombardi C, Brouwer J, Gallina S, Grasso C, De Caterina R, Tamburino C. Left Ventricular Size Predicts Clinical Benefit After Percutaneous Mitral Valve Repair for Secondary Mitral Regurgitation: A Systematic Review and Meta-Regression Analysis. *Cardiovasc Revasc Med.* 2020 Jul;21(7):857-864. doi: 10.1016/j.carrev.2019.11.003. Epub 2019 Nov 15. PMID: 31761640.

87: Adamo M, Lombardi CM, Metra M. November 2019 at a glance. Chronic and acute heart failure: from epidemiology to treatment. *Eur J Heart Fail.* 2019 Nov;21(11):1297-1298. doi: 10.1002/ejhf.1274. PMID: 31746112.

88: Adamo M, Lombardi CM, Metra M. October 2019 at a glance: epidemiology, prevention, and modes of death. *Eur J Heart Fail.* 2019 Oct;21(10):1167-1168.



doi: 10.1002/ejhf.1272. PMID: 31659839.

89: Adamo M, Lombardi CM, Metra M. September 2019 at a glance: focus on devices. *Eur J Heart Fail.* 2019 Sep;21(9):1049-1050. doi: 10.1002/ejhf.1270. PMID: 31502342.

90: Sciatti E, Dallapellegrina L, Metra M, Lombardi CM. New drugs for the treatment of chronic heart failure with a reduced ejection fraction: What the future may hold. *J Cardiovasc Med (Hagerstown).* 2019 Oct;20(10):650-659. doi: 10.2459/JCM.0000000000000850. PMID: 31397687.

91: Paolillo S, Veglia F, Salvioni E, Corrà U, Piepoli M, Lagioia R, Limongelli G, Sinagra G, Cattadori G, Scardovi AB, Metra M, Senni M, Bonomi A, Scrutinio D, Raimondo R, Emdin M, Magri D, Parati G, Re F, Cicoira M, Minà C, Correale M, Frigerio M, Bussotti M, Battaia E, Guazzi M, Badagliacca R, Di Lenarda A, Maggioni A, Passino C, Sciomer S, Pacileo G, Mapelli M, Vignati C, Clemenza F, Binno S, Lombardi C, Filardi PP, Agostoni P; MECKI Score Research Group (see Appendix). Heart failure prognosis over time: how the prognostic role of oxygen consumption and ventilatory efficiency during exercise has changed in the last 20 years. *Eur J Heart Fail.* 2019 Feb;21(2):208-217. doi: 10.1002/ejhf.1364. Epub 2019 Jan 11. PMID: 30632680.

92: Dinatolo E, Sciatti E, Anker MS, Lombardi C, Dasseni N, Metra M. Updates in heart failure: what last year brought to us. *ESC Heart Fail.* 2018 Dec;5(6):989-1007. doi: 10.1002/ehf2.12385. PMID: 30570225; PMCID: PMC6300825.

93: Adamo M, Godino C, Giannini C, Scotti A, Liga R, Curello S, Fiorina C, Chiari E, Chizzola G, Abbenante A, Visco E, Branca L, Fiorelli F, Agricola E, Stella S, Lombardi C, Colombo A, Petronio AS, Metra M, Etori F. Left ventricular reverse remodelling predicts long-term outcomes in patients with functional mitral regurgitation undergoing MitraClip therapy: results from a multicentre registry. *Eur J Heart Fail.* 2019 Feb;21(2):196-204. doi: 10.1002/ejhf.1343. Epub 2018 Dec 13. PMID: 30549159.

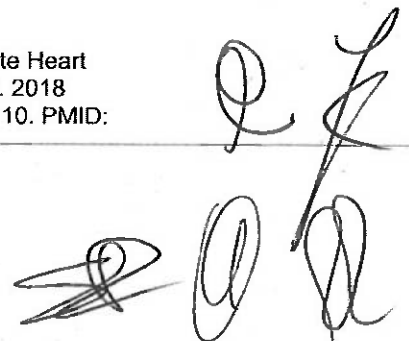
94: De Gaspari M, Toscano G, Bagozzi L, Metra M, Lombardi C, Rizzo S, Angelini A, Perazzolo Marra M, Gerosa G, Basso C. Endomyocardial fibrosis and myocardial infarction leading to diastolic and systolic dysfunction requiring transplantation. *Cardiovasc Pathol.* 2019 Jan-Feb;38:21-24. doi: 10.1016/j.carpath.2018.10.010. Epub 2018 Oct 31. PMID: 30419478.

95: Palazzuoli A, Evangelista I, Ruocco G, Lombardi C, Giovannini V, Nuti R, Ghio S, Ambrosio G. Early readmission for heart failure: An avoidable or ineluctable debacle? *Int J Cardiol.* 2019 Feb 15;277:186-195. doi: 10.1016/j.ijcard.2018.09.039. Epub 2018 Sep 13. PMID: 30262226.

96: Dinatolo E, Dasseni N, Metra M, Lombardi C, von Haehling S. Iron deficiency in heart failure. *J Cardiovasc Med (Hagerstown).* 2018 Dec;19(12):706-716. doi: 10.2459/JCM.0000000000000686. PMID: 30222663.

97: Campodonico J, Piepoli M, Clemenza F, Bonomi A, Paolillo S, Salvioni E, Corrà U, Binno S, Veglia F, Lagioia R, Sinagra G, Cattadori G, Scardovi AB, Metra M, Senni M, Scrutinio D, Raimondo R, Emdin M, Magri D, Parati G, Re F, Cicoira M, Minà C, Limongelli G, Correale M, Frigerio M, Bussotti M, Perna E, Battaia E, Guazzi M, Badagliacca R, Di Lenarda A, Maggioni A, Passino C, Sciomer S, Pacileo G, Mapelli M, Vignati C, Lombardi C, Filardi PP, Agostoni P; MECKI Score Research Group. Dose-dependent efficacy of β -blocker in patients with chronic heart failure and atrial fibrillation. *Int J Cardiol.* 2018 Dec 15;273:141-146. doi: 10.1016/j.ijcard.2018.08.012. Epub 2018 Aug 6. PMID: 30098827.

98: Metra M, Dasseni N, Lombardi C. Assessment of Congestion in Acute Heart Failure: When Simplicity Does Not Go Along With Accuracy. *J Card Fail.* 2018 Sep;24(9):550-552. doi: 10.1016/j.cardfail.2018.08.004. Epub 2018 Aug 10. PMID:



30099193.

99: Gavazzoni M, Lombardi CM, Vizzardi E, Gorga E, Sciatti E, Rossi L, Belotti A, Rossi G, Metra M, Raddino R. Irreversible proteasome inhibition with carfilzomib as first line therapy in patients with newly diagnosed multiple myeloma: Early in vivo cardiovascular effects. *Eur J Pharmacol.* 2018 Nov 5;838:85-90. doi: 10.1016/j.ejphar.2018.09.014. Epub 2018 Sep 7. PMID: 30201379.

100: Mercurio V, Palazzuoli A, Correale M, Lombardi C, Passantino A, Ravera A, Ruocco G, Sciatti E, Triggiani M, Lagioia R, Scrutinio D, Tocchetti CG, Nodari S. Right heart dysfunction: from pathophysiologic insights to therapeutic options: a translational overview. *J Cardiovasc Med (Hagerstown).* 2018 Nov;19(11):613-623. doi: 10.2459/JCM.0000000000000700. PMID: 30048301.

101: Sciatti E, Senni M, Lombardi CM, Gori M, Metra M. Sacubitril/valsartan: from a large clinical trial to clinical practice. *J Cardiovasc Med (Hagerstown).* 2018 Sep;19(9):473-479. doi: 10.2459/JCM.0000000000000687. PMID: 29917003.

102: Ghio S, Fortuni F, Greco A, Turco A, Lombardi C, Scelsi L, Raineri C, Matrone B, Vullo E, Guida S, Badagliacca R, Oltrona Visconti L. Dobutamine stress echocardiography in pulmonary arterial hypertension. *Int J Cardiol.* 2018 Nov 1;270:331-335. doi: 10.1016/j.ijcard.2018.06.032. Epub 2018 Jun 8. PMID: 29903514.

103: Ammirati E, Cipriani M, Moro C, Raineri C, Pini D, Sormani P, Mantovani R, Varrenti M, Pedrotti P, Conca C, Mafrici A, Grosu A, Briguglia D, Guglielmetto S, Perego GB, Colombo S, Caico SI, Giannattasio C, Maestroni A, Carubelli V, Metra M, Lombardi C, Campodonico J, Agostoni P, Peretto G, Scelsi L, Turco A, Di Tano G, Campana C, Belloni A, Morandi F, Mortara A, Cirò A, Senni M, Gavazzi A, Frigerio M, Oliva F, Camici PG; Registro Lombardo delle Miocarditi. Clinical Presentation and Outcome in a Contemporary Cohort of Patients With Acute Myocarditis: Multicenter Lombardy Registry. *Circulation.* 2018 Sep 11;138(11):1088-1099. doi: 10.1161/CIRCULATIONAHA.118.035319. PMID: 29764898.

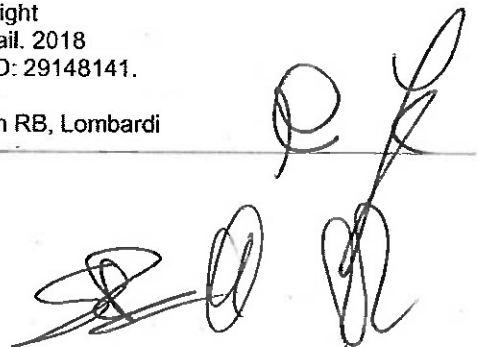
104: Bonadei I, Sciatti E, Vizzardi E, Fabbricatore D, Pagnoni M, Rossi L, Carubelli V, Lombardi CM, Metra M. Effects of ivabradine on endothelial function, aortic properties and ventricular-arterial coupling in chronic systolic heart failure patients. *Cardiovasc Ther.* 2018 Jun;36(3):e12323. doi: 10.1111/1755-5922.12323. Epub 2018 Mar 6. PMID: 29460403.

105: Bruno N, Sinagra G, Paolillo S, Bonomi A, Corrà U, Piepoli M, Veglia F, Salvioni E, Lagioia R, Metra M, Limongelli G, Cattadori G, Scardovi AB, Carubelli V, Scrutinio D, Badagliacca R, Guazzi M, Raimondo R, Gentile P, Magri D, Correale M, Parati G, Re F, Ciccoira M, Frigerio M, Bussotti M, Vignati C, Oliva F, Mezzani A, Vergaro G, Di Lenarda A, Passino C, Sciomer S, Pacileo G, Ricci R, Contini M, Apostolo A, Palermo P, Mapelli M, Carriere C, Clemenza F, Binno S, Belardinelli R, Lombardi C, Perrone Filardi P, Emdin M, Agostoni P. Mineralocorticoid receptor antagonists for heart failure: a real-life observational study. *ESC Heart Fail.* 2018 Jun;5(3):267-274. doi: 10.1002/ehf2.12244. Epub 2018 Feb 4. PMID: 29397584; PMCID: PMC5933965.

106: Fonseca C, Maggioni AP, Marques F, Araújo I, Brás D, Langdon RB, Lombardi C, Bettencourt P. Erratum to "A systematic review of in-hospital worsening heart failure as an endpoint in clinical investigations of therapy for acute heart failure" [*Int. J. Cardiol.* 250 (2018) 215-222]. *Int J Cardiol.* 2018 Mar 1;254:368-371. doi: 10.1016/j.ijcard.2017.12.022. Epub 2018 Jan 11. Erratum for: *Int J Cardiol.* 2018 Jan 1;250:215-222. PMID: 29336913.

107: Palazzuoli A, Ruocco G, Lombardi C. The need for evaluating right ventricular adaptation and ventriculo-arterial coupling. *Eur J Heart Fail.* 2018 May;20(5):943-944. doi: 10.1002/ejhf.1069. Epub 2017 Nov 16. PMID: 29148141.

108: Fonseca C, Maggioni AP, Marques F, Araújo I, Brás D, Langdon RB, Lombardi



C, Bettencourt P. A systematic review of in-hospital worsening heart failure as an endpoint in clinical investigations of therapy for acute heart failure. *Int J Cardiol.* 2018 Jan 1;250:215-222. doi: 10.1016/j.ijcard.2017.10.023. Epub 2017 Oct 6. Erratum in: *Int J Cardiol.* 2018 Jan 11; PMID: 29050923.

109: Lombardi C, Sbolli M, Cani D, Masini G, Metra M, Faggiano P. Preoperative cardiac risks in noncardiac surgery: The role of coronary angiography. *Monaldi Arch Chest Dis.* 2017 Jul 18;87(2):863. doi: 10.4081/monaldi.2017.863. PMID: 28967723.

110: Agostoni P, Paolillo S, Mapelli M, Gentile P, Salvioni E, Veglia F, Bonomi A, Corrà U, Lagioia R, Limongelli G, Sinagra G, Cattadori G, Scardovi AB, Metra M, Carubelli V, Scrutinio D, Raimondo R, Emdin M, Piepoli M, Magri D, Parati G, Caravita S, Re F, Cicoira M, Minà C, Correale M, Frigerio M, Bussotti M, Oliva F, Battaia E, Belardinelli R, Mezzani A, Pastormerlo L, Guazzi M, Badagliacca R, Di Lenarda A, Passino C, Sciomer S, Zambon E, Pacileo G, Ricci R, Apostolo A, Palermo P, Contini M, Clemenza F, Marchese G, Gargiulo P, Binno S, Lombardi C, Passantino A, Filardi PP. Multiparametric prognostic scores in chronic heart failure with reduced ejection fraction: a long-term comparison. *Eur J Heart Fail.* 2018 Apr;20(4):700-710. doi: 10.1002/ejhf.989. Epub 2017 Sep 26. PMID: 28949086.

111: Badagliacca R, Raina A, Ghio S, D'Alto M, Confalonieri M, Correale M, Corda M, Paciocco G, Lombardi C, Mulè M, Poscia R, Scelsi L, Argiento P, Sciomer S, Benza RL, Vizza CD. Influence of various therapeutic strategies on right ventricular morphology, function and hemodynamics in pulmonary arterial hypertension. *J Heart Lung Transplant.* 2018 Mar;37(3):365-375. doi: 10.1016/j.healun.2017.08.009. Epub 2017 Aug 26. PMID: 28912026.

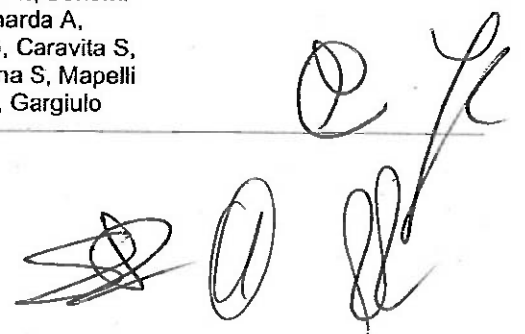
112: Adamo M, Curello S, Chiari E, Fiorina C, Chizzola G, Magatelli M, Locantore E, Cuminetti G, Lombardi C, Manzato A, Metra M, Etti F. Percutaneous edge-to-edge mitral valve repair for the treatment of acute mitral regurgitation complicating myocardial infarction: A single centre experience. *Int J Cardiol.* 2017 May 1;234:53-57. doi: 10.1016/j.ijcard.2017.02.072. Epub 2017 Feb 21. PMID: 28258847.

113: Paolillo S, Mapelli M, Bonomi A, Corrà U, Piepoli M, Veglia F, Salvioni E, Gentile P, Lagioia R, Metra M, Limongelli G, Sinagra G, Cattadori G, Scardovi AB, Carubelli V, Scrutinio D, Badagliacca R, Raimondo R, Emdin M, Magri D, Correale M, Parati G, Caravita S, Spadafora E, Re F, Cicoira M, Frigerio M, Bussotti M, Minà C, Oliva F, Battaia E, Belardinelli R, Mezzani A, Pastormerlo L, Di Lenarda A, Passino C, Sciomer S, Iorio A, Zambon E, Guazzi M, Pacileo G, Ricci R, Contini M, Apostolo A, Palermo P, Clemenza F, Marchese G, Binno S, Lombardi C, Passantino A, Perrone Filardi P, Agostoni P. Prognostic role of β -blocker selectivity and dosage regimens in heart failure patients. Insights from the MECKI score database. *Eur J Heart Fail.* 2017 Jul;19(7):904-914. doi: 10.1002/ejhf.775. Epub 2017 Feb 24. PMID: 28233458.

114: Bonadei I, Gorga E, Lombardi C, Metra M. Arrhythmias and cardiomyopathy: when arrhythmias come first. *J Cardiovasc Med (Hagerstown).* 2017 Jan;18 Suppl 1:e145-e148. doi: 10.2459/JCM.0000000000000464. PMID: 27875348.

115: Carubelli V, Cotter G, Davison B, Gishe J, Senger S, Bonadei I, Gorga E, Lazzarini V, Lombardi C, Metra M. In-hospital worsening heart failure in patients admitted for acute heart failure. *Int J Cardiol.* 2016 Dec 15;225:353-361. doi: 10.1016/j.ijcard.2016.10.002. Epub 2016 Oct 5. PMID: 27756041.

116: Cattadori G, Agostoni P, Corrà U, Sinagra G, Veglia F, Salvioni E, Bonomi A, La Gioia R, Scardovi AB, Ferraironi A, Emdin M, Metra M, Di Lenarda A, Limongelli G, Raimondo R, Re F, Guazzi M, Belardinelli R, Parati G, Caravita S, Magri D, Lombardi C, Frigerio M, Oliva F, Girola D, Mezzani A, Farina S, Mapelli M, Scrutinio D, Pacileo G, Apostolo A, Iorio A, Paolillo S, Filardi PP, Gargiulo



P, Bussotti M, Marchese G, Correale M, Badagliacca R, Sciomer S, Palermo P, Contini M, Giannuzzi P, Battaia E, Cicoira M, Clemenza F, Minà C, Binno S, Passino C, Piepoli MF; MECKI score Research Group (appendix). Heart failure and anemia: Effects on prognostic variables. *Eur J Intern Med.* 2017 Jan;37:56-63. doi: 10.1016/j.ejim.2016.09.011. Epub 2016 Sep 28. PMID: 27692931.

117: Lombardi C, Metra M. Corrigendum: Carnosine: Potential aid for diabetes and cardiovascular disease. *Obesity (Silver Spring).* 2016 Aug;24(8):1819. doi: 10.1002/oby.21585. Erratum for: *Obesity (Silver Spring).* 2016 May;24(5):989. PMID: 27460715.

118: Sciatti E, Lombardi C, Ravera A, Vizzardi E, Bonadei I, Carubelli V, Gorga E, Metra M. Nutritional Deficiency in Patients with Heart Failure. *Nutrients.* 2016 Jul 22;8(7):442. doi: 10.3390/nu8070442. PMID: 27455314; PMCID: PMC4963918.

119: Vizzardi E, Cavazzana I, Franceschini F, Bonadei I, Sciatti E, Lombardi CM, Tincani A, Metra M. Left ventricular function in rheumatoid arthritis during anti-TNF- α treatment: a speckle tracking prospective echocardiographic study. *Monaldi Arch Chest Dis.* 2016 Jun 22;84(1-2):716. doi: 10.4081/monaldi.2015.716. PMID: 27374036.

120: Vizzardi E, Sciatti E, Bonadei I, Pezzali NL, Lombardi CM, Metra M. Red cell distribution width and chronic heart failure: prognostic role beyond echocardiographic parameters. *Monaldi Arch Chest Dis.* 2016 Jun 22;84(1-2):59. doi: 10.4081/monaldi.2015.59. PMID: 27374035.

121: Carubelli V, Lombardi C, Gorga E, Ravera A, Metra M, Mentz RJ. Cardiorenal Interactions. *Heart Fail Clin.* 2016 Jul;12(3):335-47. doi: 10.1016/j.hfc.2016.03.002. PMID: 27371511.

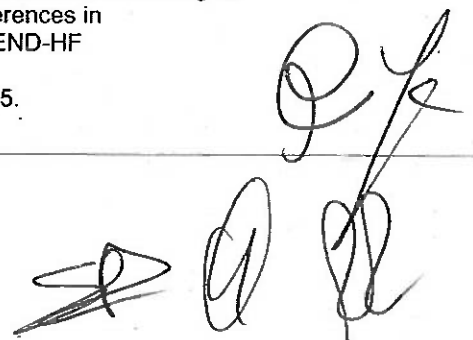
122: Carubelli V, Lombardi C, Lazzarini V, Bonadei I, Castrini AI, Gorga E, Richards AM, Metra M. N-terminal pro-B-type natriuretic peptide-guided therapy in patients hospitalized for acute heart failure. *J Cardiovasc Med (Hagerstown).* 2016 Nov;17(11):828-39. doi: 10.2459/JCM.0000000000000419. PMID: 27322401.

123: Ravera A, Carubelli V, Sciatti E, Bonadei I, Gorga E, Cani D, Vizzardi E, Metra M, Lombardi C. Nutrition and Cardiovascular Disease: Finding the Perfect Recipe for Cardiovascular Health. *Nutrients.* 2016 Jun 14;8(6):363. doi: 10.3390/nu8060363. PMID: 27314382; PMCID: PMC4924204.

124: Gorga E, Regazzoni V, Bansilal S, Carubelli V, Trichaki E, Gavazzoni M, Lombardi C, Raddino R, Metra M. School and family-based interventions for promoting a healthy lifestyle among children and adolescents in Italy: a systematic review. *J Cardiovasc Med (Hagerstown).* 2016 Aug;17(8):547-55. doi: 10.2459/JCM.0000000000000404. PMID: 27168142.

125: Piepoli MF, Corrà U, Veglia F, Bonomi A, Salvioni E, Cattadori G, Metra M, Lombardi C, Sinagra G, Limongelli G, Raimondo R, Re F, Magri D, Belardinelli R, Parati G, Minà C, Scardovi AB, Guazzi M, Cicoira M, Scrutinio D, Di Lenarda A, Bussotti M, Frigerio M, Correale M, Villani GQ, Paolillo S, Passino C, Agostoni P; MECKI Score Research Group. Exercise tolerance can explain the obesity paradox in patients with systolic heart failure: data from the MECKI Score Research Group. *Eur J Heart Fail.* 2016 May;18(5):545-53. doi: 10.1002/ejhf.534. PMID: 27135769.

126: Metra M, Mentz RJ, Hernandez AF, Heizer GM, Armstrong PW, Clausell N, Corbalan R, Costanzo MR, Dickstein K, Dunlap ME, Ezekowitz JA, Howlett JG, Komajda M, Krum H, Lombardi C, Fonarow GC, McMurray JJ, Nieminen MS, Swedberg K, Voors AA, Starling RC, Teerlink JR, O'Connor CM. Geographic Differences in Patients in a Global Acute Heart Failure Clinical Trial (from the ASCEND-HF Trial). *Am J Cardiol.* 2016 Jun 1;117(11):1771-8. doi: 10.1016/j.amjcard.2016.03.002. Epub 2016 Mar 19. PMID: 27108685.



127: Adamo M, Chiari E, Curello S, Maiandi C, Chizzola G, Fiorina C, Frontini M, Cuminetti G, Pezzotti E, Rovetta R, Lombardi CM, Manzato A, Metra M, Etori F. Mitraclip therapy in patients with functional mitral regurgitation and missing leaflet coaptation: is it still an exclusion criterion? *Eur J Heart Fail.* 2016 Oct;18(10):1278-1286. doi: 10.1002/ehf.520. Epub 2016 Apr 22. PMID: 27102848.

128: Lombardi C. Carnosine: Potential aid for diabetes and cardiovascular disease. *Obesity (Silver Spring).* 2016 May;24(5):989. doi: 10.1002/oby.21458. Epub 2016 Apr 8. Erratum in: *Obesity (Silver Spring).* 2016 Aug;24(8):1819. PMID: 27062435.

129: Lombardi C, Raffetti E, Caminati M, Liccardi G, Passalacqua G, Reccardini F, Ridolo E, Senna G, Steinhilber G, Milanese M; ELSA Study Group. Phenotyping asthma in the elderly: allergic sensitization profile and upper airways comorbidity in patients older than 65 years. *Ann Allergy Asthma Immunol.* 2016 Mar;116(3):206-11. doi: 10.1016/j.anai.2015.12.005. Epub 2016 Jan 11. PMID: 26782672.

130: Cooper LB, Mentz RJ, Stevens SR, Felker GM, Lombardi C, Metra M, Stevenson LW, O'Connor CM, Milano CA, Patel CB, Rogers JG. Hemodynamic Predictors of Heart Failure Morbidity and Mortality: Fluid or Flow? *J Card Fail.* 2016 Mar;22(3):182-9. doi: 10.1016/j.cardfail.2015.11.012. Epub 2015 Dec 15. PMID: 26703245; PMCID: PMC4779722.

131: Carubelli V, Metra M, Corrà U, Magri D, Passino C, Lombardi C, Scrutinio D, Correale M, Cattadori G, Piepoli MF, Salvioni E, Giovannardi M, Raimondo R, Cicoira M, Belardinelli R, Guazzi M, Limongelli G, Clemenza F, Parati G, Scardovi AB, Di Lenarda A, Bussotti M, La Gioia R, Agostoni P; MECKI score research group. Exercise Performance Is a Prognostic Indicator in Elderly Patients With Chronic Heart Failure—Application of Metabolic Exercise Cardiac Kidney Indexes Score. *Circ J.* 2015;79(12):2608-15. doi: 10.1253/circj.CJ-15-0026. Epub 2015 Oct 16. PMID: 26477272.

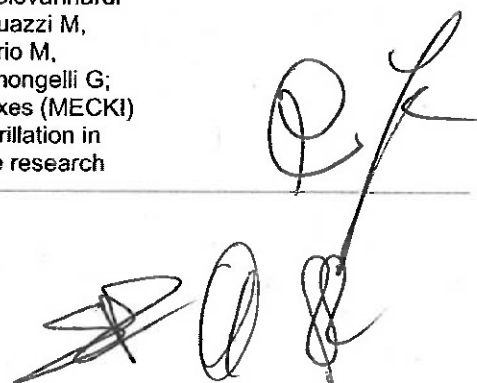
132: Lombardi C, Carubelli V, Rovetta R, Castrini AI, Vizzardi E, Bondei I, Sciatti E, Manerba A, Benlodi E, Nodari S, Metra M. Prognostic value of serial measurements of blood urea nitrogen in ambulatory patients with chronic heart failure. *Panminerva Med.* 2016 Mar;58(1):8-15. Epub 2015 Jul 8. PMID: 26154625.

133: Castrini AI, Carubelli V, Lazzarini V, Bonadei I, Lombardi C, Metra M. Serelaxin a novel treatment for acute heart failure. *Expert Rev Clin Pharmacol.* 2015;8(5):549-57. doi: 10.1586/17512433.2015.1073587. PMID: 26294074.

134: Salah K, Pinto YM, Eurlings LW, Metra M, Stienen S, Lombardi C, Tijssen JG, Kok WE. Serum potassium decline during hospitalization for acute decompensated heart failure is a predictor of 6-month mortality, independent of N-terminal pro-B-type natriuretic peptide levels: An individual patient data analysis. *Am Heart J.* 2015 Sep;170(3):531-42.e1. doi: 10.1016/j.ahj.2015.06.003. Epub 2015 Jun 10. PMID: 26385037.

135: Palazzuoli A, Lombardi C, Ruocco G, Padeletti M, Nuti R, Metra M, Ronco C. Chronic kidney disease and worsening renal function in acute heart failure: different phenotypes with similar prognostic impact? *Eur Heart J Acute Cardiovasc Care.* 2016 Dec;5(8):534-548. doi: 10.1177/2048872615589511. Epub 2015 Jun 4. PMID: 26045513.

136: Paolillo S, Agostoni P, Masarone D, Corrà U, Passino C, Scrutinio D, Correale M, Cattadori G, Metra M, Girola D, Piepoli MF, Salvioni E, Giovannardi M, Iorio A, Emdin M, Raimondo R, Re F, Cicoira M, Belardinelli R, Guazzi M, Clemenza F, Parati G, Scardovi AB, Di Lenarda A, La Gioia R, Frigerio M, Lombardi C, Gargiulo P, Sinagra G, Pacileo G, Perrone-Filardi P, Limongelli G; Metabolic Exercise test data combined with Cardiac and Kidney Indexes (MECKI) Score Research Group (see Appendix A). Prognostic role of atrial fibrillation in patients affected by chronic heart failure. Data from the MECKI score research



group. *Eur J Intern Med.* 2015 Sep;26(7):515-20. doi: 10.1016/j.ejim.2015.04.023. Epub 2015 May 27. PMID: 26026698.

137: Lombardi C, Carubelli V, Lazzarini V, Vizzardi E, Bordonali T, Ciccarese C, Castrini AI, Dei Cas A, Nodari S, Metra M. Effects of oral administration of orodispersible levo-carnosine on quality of life and exercise performance in patients with chronic heart failure. *Nutrition.* 2015 Jan;31(1):72-8. doi: 10.1016/j.nut.2014.04.021. Epub 2014 May 10. PMID: 25287762.

138: Metra M, Lombardi C. Renin-Angiotensin system blockade and worsening renal function in heart failure: an unfinished story. *J Am Coll Cardiol.* 2014 Sep 16;64(11):1114-6. doi: 10.1016/j.jacc.2014.04.080. PMID: 25212645.

139: Vizzardi E, Pina PD, Caretta G, Bonadei I, Sciatti E, Lombardi C, D'Aloia A, Curnis A, Metra M. The effect of aldosterone-antagonist therapy on aortic elastic properties in patients with nonischemic dilated cardiomyopathy. *J Cardiovasc Med (Hagerstown).* 2015 Sep;16(9):597-602. doi: 10.2459/JCM.000000000000102. PMID: 24978872.

140: Spigoni V, Lombardi C, Cito M, Picconi A, Ridolfi V, Andreoli R, Anelli N, Gnudi L, Goldoni M, Zavaroni I, Raddino R, Dei Cas A. N-3 PUFA increase bioavailability and function of endothelial progenitor cells. *Food Funct.* 2014 Aug;5(8):1881-90. doi: 10.1039/c3fo60641d. PMID: 24942553.

141: Carubelli V, Castrini AI, Lazzarini V, Gheorghide M, Metra M, Lombardi C. Amino acids and derivatives, a new treatment of chronic heart failure? *Heart Fail Rev.* 2015 Jan;20(1):39-51. doi: 10.1007/s10741-014-9436-9. PMID: 24925377.

142: Lombardi C, Carubelli V, Lazzarini V, Vizzardi E, Quinzani F, Guidetti F, Rovetta R, Nodari S, Gheorghide M, Metra M. Effects of oral amino Acid supplements on functional capacity in patients with chronic heart failure. *Clin Med Insights Cardiol.* 2014 May 21;8:39-44. doi: 10.4137/CMC.S14016. PMID: 24899826; PMCID: PMC4039212.

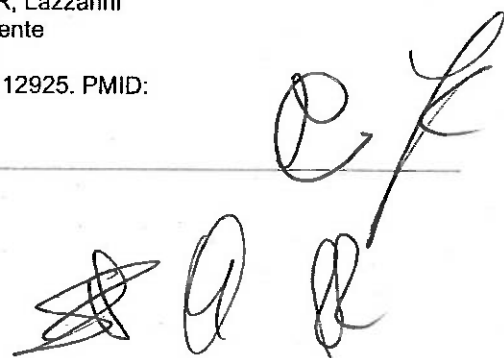
143: Bonadei I, Vizzardi E, Sciatti E, Carubelli V, Lombardi CM, D'Aloia A, Metra M. Is there a role for ivabradine beyond its conventional use? *Cardiovasc Ther.* 2014 Aug;32(4):189-92. doi: 10.1111/1755-5922.12080. PMID: 24828443.

144: Metra M, Carbone G, Lombardi C, Borghi C, Vescovo G. Definizione di scompenso cardiaco acuto [Definition of acute heart failure]. *G Ital Cardiol (Rome).* 2014 Feb;15(2 Suppl 2):5S-9S. Italian. doi: 10.1714/1465.16181. PMID: 24770483.

145: Vizzardi E, Caretta G, Bonadei I, Rovetta R, Sciatti E, Pezzali N, Lombardi CM, Quinzani F, Salghetti F, D'Aloia A, Metra M. Echocardiographic elastic properties of ascending aorta and their relationship with exercise capacity in patients with non-ischemic dilated cardiomyopathy. *Int J Cardiol Heart Vessel.* 2014 Apr 18;3:78-81. doi: 10.1016/j.ijchv.2014.03.009. PMID: 29450176; PMCID: PMC5801435.

146: Lombardi C, Castrini AI, Metra M, Carubelli V, Lazzarini V, Inama L, Dei Cas L. Efficacia degli ACE-inibitori nei pazienti con recente infarto miocardico. Gli studi con zofenopril [Efficacy of ACE-inhibitors in patients with recent myocardial infarction. Studies with zofenopril]. *G Ital Cardiol (Rome).* 2012 Oct;13(10 Suppl 2):55S-58S. Italian. doi: 10.1714/1167.12922. PMID: 23096377.

147: Carubelli V, Quinzani F, Guidetti F, Adamo M, Inama L, Rovetta R, Lazzarini V, Lombardi C, Metra M, Dei Cas L. Ruolo dell'alimentazione nel paziente scompensato [Role of nutrition in heart failure patients]. *G Ital Cardiol (Rome).* 2012 Oct;13(10 Suppl 2):70S-76S. Italian. doi: 10.1714/1167.12925. PMID: 23096380.

Handwritten signatures and initials at the bottom right of the page. There are three distinct signatures: a large, stylized signature on the right, and two smaller, more compact signatures below it.

148: Serino G, Guazzi M, Micheletti A, Lombardi C, Danesi R, Negura D, Carminati M, Chessa M. Effect of bosentan on exercise capacity and clinical worsening in patients with dual down and Eisenmenger syndrome. *Clin Med Insights Cardiol.* 2013;7:29-34. doi: 10.4137/CMC.S10237. Epub 2013 Feb 6. PMID: 23440179; PMCID: PMC3572875.

149: Vizzardi E, Nodari S, Caretta G, D'Aloia A, Pezzali N, Faden G, Lombardi C, Raddino R, Metra M, Dei Cas L. Effects of spironolactone on long-term mortality and morbidity in patients with heart failure and mild or no symptoms. *Am J Med Sci.* 2014 Apr;347(4):271-6. doi: 10.1097/MAJ.0b013e31829dd6b1. PMID: 24196866.

150: Metra M, Bettari L, Pagani F, Lazzarini V, Lombardi C, Carubelli V, Bonetti G, Bugatti S, Parrinello G, Caimi L, Felker GM, Dei Cas L. Troponin T levels in patients with acute heart failure: clinical and prognostic significance of their detection and release during hospitalisation. *Clin Res Cardiol.* 2012 Aug;101(8):663-72. doi: 10.1007/s00392-012-0441-5. Epub 2012 Mar 10. PMID: 22407461.

151: Metra M, Davison B, Bettari L, Sun H, Edwards C, Lazzarini V, Piovanelli B, Carubelli V, Bugatti S, Lombardi C, Cotter G, Dei Cas L. Is worsening renal function an ominous prognostic sign in patients with acute heart failure? The role of congestion and its interaction with renal function. *Circ Heart Fail.* 2012 Jan;5(1):54-62. doi: 10.1161/CIRCHEARTFAILURE.111.963413. Epub 2011 Dec 13. PMID: 22167320.

152: Milo-Cotter O, Cotter-Davison B, Lombardi C, Sun H, Bettari L, Bugatti S, Rund M, Metra M, Kaluski E, Kobrin I, Frey A, Rainisio M, McMurray JJ, Teerlink JR, Cotter-Davison G. Neurohormonal activation in acute heart failure: results from VERITAS. *Cardiology.* 2011;119(2):96-105. doi: 10.1159/000330409. Epub 2011 Sep 8. PMID: 21912122.

153: Nodari S, Manerba A, Vaccari A, Milesi G, Carubelli V, Lazzarini V, Lombardi C, Etori F, Metra M, Dei Cas A. Six-year prognosis of diabetic patients with coronary artery disease. *Eur J Clin Invest.* 2012 Apr;42(4):376-83. doi: 10.1111/j.1365-2362.2011.02593.x. Epub 2011 Sep 9. PMID: 21902691.

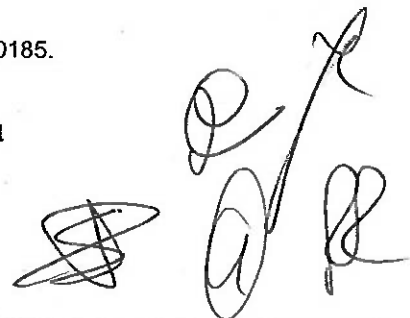
154: Carubelli V, Metra M, Lombardi C, Bettari L, Bugatti S, Lazzarini V, Dei Cas L. Renal dysfunction in acute heart failure: epidemiology, mechanisms and assessment. *Heart Fail Rev.* 2012 Mar;17(2):271-82. doi: 10.1007/s10741-011-9265-z. PMID: 21748453.

155: O'Connor CM, Fiuzat M, Lindenfeld J, Miller A, Lombardi C, Carson P, Shaw LK, Wang LJ, Connolly P, Mills R, Yancy C, Mahaffey K. Mode of death and hospitalization from the Second Follow-up Serial Infusions of Nesiritide (FUSION II) trial and comparison of clinical events committee adjudicated versus investigator reported outcomes. *Am J Cardiol.* 2011 Nov 15;108(10):1449-57. doi: 10.1016/j.amjcard.2011.06.065. Epub 2011 Sep 3. PMID: 21890092.

156: O'Connor CM, Fiuzat M, Lombardi C, Fujita K, Jia G, Davison BA, Cleland J, Bloomfield D, Dittrich HC, Delucca P, Givertz MM, Mansoor G, Ponikowski P, Teerlink JR, Voors AA, Massie BM, Cotter G, Metra M. Impact of serial troponin release on outcomes in patients with acute heart failure: analysis from the PROTECT pilot study. *Circ Heart Fail.* 2011 Nov;4(6):724-32. doi: 10.1161/CIRCHEARTFAILURE.111.961581. Epub 2011 Sep 6. PMID: 21900185.

157: Lazzarini V, Bettari L, Bugatti S, Carubelli V, Lombardi C, Metra M, Dei Cas L. Can we prevent or treat renal dysfunction in acute heart failure? *Heart Fail Rev.* 2012 Mar;17(2):291-303. doi: 10.1007/s10741-011-9253-3. PMID: 21556945.

158: Metra M, Bettari L, Carubelli V, Bugatti S, Dei Cas A, Del Magro F, Lazzarini V, Lombardi C, Dei Cas L. Use of inotropic agents in patients with advanced heart failure: lessons from recent trials and hopes for new agents.



Drugs. 2011 Mar 26;71(5):515-25. doi: 10.2165/11585480-000000000-00000. PMID: 21443277.

159: Metra M, Lombardi C, Carubelli V, Bettari L, Bugatti S, Danesi R, Lazzarini V, Monti A, Villa C, Dei Cas L. La terapia con inotropi del paziente con insufficienza cardiaca: oltre i farmaci tradizionali [Treatment of heart failure patients with inotropic drugs: beyond traditional agents]. *G Ital Cardiol (Rome)*. 2010 Oct;11(10 Suppl 1):143S-148S. Italian. PMID: 21416846.

160: Metra M, Bugatti S, Bettari L, Carubelli V, Danesi R, Lazzarini V, Lombardi C, Cas LD. Can we improve the treatment of congestion in heart failure? *Expert Opin Pharmacother*. 2011 Jun;12(9):1369-79. doi: 10.1517/14656566.2011.557069. Epub 2011 Feb 23. PMID: 21342081.

161: Metra M, Covolo L, Pezzali N, Zacà V, Bugatti S, Lombardi C, Bettari L, Romeo A, Gelatti U, Giubbini R, Donato F, Dei Cas L. Role of beta-adrenergic receptor gene polymorphisms in the long-term effects of beta-blockade with carvedilol in patients with chronic heart failure. *Cardiovasc Drugs Ther*. 2010 Feb;24(1):49-60. doi: 10.1007/s10557-010-6220-5. PMID: 20352314.

162: Metra M, Felker GM, Zacà V, Bugatti S, Lombardi C, Bettari L, Voors AA, Gheorghide M, Dei Cas L. Acute heart failure: multiple clinical profiles and mechanisms require tailored therapy. *Int J Cardiol*. 2010 Oct 8;144(2):175-9. doi: 10.1016/j.ijcard.2010.04.003. Epub 2010 May 26. PMID: 20537739.

163: Metra M, Zacà V, Lombardi C, Bugatti S, Dei Cas L. La frequenza cardiaca: fattore di rischio o epifenomeno? [Heart rate: a risk factor or an epiphenomenon?]. *G Ital Cardiol (Rome)*. 2010 Mar;11(3):209-20. Italian. PMID: 20550061.

164: Zacà V, Metra M, Danesi R, Lombardi C, Verzura G, Dei Cas L. Successful switch to sitaxsentan in a patient with HIV-related pulmonary arterial hypertension and late intolerance to nonselective endothelin receptor blockade. *Ther Adv Respir Dis*. 2009 Feb;3(1):11-4. doi: 10.1177/1753465808101549. PMID: 19293198.

165: Metra M, Zacà V, Lombardi C, Danesi R, Bordonali T, Nodari S, Cas LD. L'insufficienza cardiaca acuta: profili clinici e fisiopatologia [Acute heart failure: clinical profiles and pathophysiology]. *G Ital Cardiol (Rome)*. 2008 Oct;9(10 Suppl 1):105S-111S. Italian. PMID: 19195317.

166: Cas LD, Metra M, Nodari S, Lombardi C, Zacà V. La terapia con supporti meccanici nell'insufficienza cardiaca avanzata [Mechanical circulatory supports for the treatment of advanced heart failure]. *G Ital Cardiol (Rome)*. 2008 Oct;9(10 Suppl 1):99S-104S. Italian. PMID: 19195316.

167: Metra M, Nodari S, Bordonali T, Milani P, Lombardi C, Bugatti S, Fontanella B, Verzura G, Danesi R, Dei Cas L. Bisoprolol in the treatment of chronic heart failure: from pathophysiology to clinical pharmacology and trial results. *Ther Clin Risk Manag*. 2007 Aug;3(4):569-78. PMID: 18472978; PMCID: PMC2374926.

168: Metra M, Nodari S, Parrinello G, Bordonali T, Bugatti S, Danesi R, Fontanella B, Lombardi C, Milani P, Verzura G, Cotter G, Dittrich H, Massie BM, Dei Cas L. Worsening renal function in patients hospitalised for acute heart failure: clinical implications and prognostic significance. *Eur J Heart Fail*. 2008 Feb;10(2):188-95. doi: 10.1016/j.ejheart.2008.01.011. PMID: 18279773.

169: Metra M, Nodari S, Bordonali T, Bugatti S, Fontanella B, Lombardi C, Saporetti A, Verzura G, Danesi R, Dei Cas L. Anemia and heart failure: a cause of progression or only a consequence? *Heart Int*. 2007;3(1):1. doi: 10.4081/hi.2007.1. Epub 2007 Jun 15. PMID: 21977269; PMCID: PMC3184679.

170 Ghio S, Mandurino-Mirizzi A, La Rovere MT, Traversi E, Lombardi C, Scelsi L, Senni M,

Iacovoni A. Sodium nitroprusside for advanced heart failure. A metaanalysis of literature data.
Vascul Pharmacol. 2023 Feb;148:107140. doi: 10.1016/j.vph.2022.107140. Epub 2022 Dec 20.
PMID: 36563732.

Brescia 23 Agosto 2023

Prof Carlo Mario Lombardi

Carlo Mario Lombardi

Signature: *Carlo Mario Lombardi*

Email: carlo.lombardi@unibs.it

A handwritten signature in black ink, consisting of several stylized, overlapping loops and lines, positioned in the bottom right corner of the page.