



SC Cardiologia

Polo Cardiologico - Ospedale di Cattinara

Attività di RICERCA

Centro di Riferimento per lo Scompenso Cardiaco e le Cardiomiopatie

La Struttura Complessa di Cardiologia dell'ASUGI di Trieste, rappresenta un riferimento nazionale ed internazionale per l'inquadramento, la gestione e la ricerca sulle Cardiomiopatie (CMP) e lo Scompenso Cardiaco (SC) con importanti collaborazioni cliniche e scientifiche con centri come ICGB (International Centre for Genetic Engineering and Biotechnology), la Mayo Clinic di Rochester, MN, USA, il King's College London, UK, e l'Università di Denver, CO, USA, e con pubblicazioni su riviste peer-reviewed ad elevato Impact Factor (New England Journal of Medicine, Circulation, Journal of American College of Cardiology, European Heart Journal).

Semestralmente viene prodotto un aggiornamento del Registro sulle Cardiomiopatie. Ad oggi il Registro ha arruolato oltre 2300 pazienti di cui:

- 1415 con Cardiomiopatia Dilatativa,
- 370 con Cardiomiopatia Ipertrofica,
- 140 con Cardiomiopatia Aritmogena del Ventricolo Destro,
- 130 con Miocardite biotpicamente accertate,
- 250 con altre forme di Cardiomiopatie,

risultando il registro monocentrico più numeroso al mondo sulla Cardiomiopatia Dilatativa completo di dati clinici al momento dell'esordio e durante il follow-up.

Presso la SC Cardiologia sono archiviati oltre 1800 campioni biologici condivisi tra la banca dati di Trieste e quella dell'Università di Denver, CO, USA.

Di questi campioni:

- 1050 appartengono a probandi affetti da diverse Cardiomiopatie.
- 750 campioni di probandi sono contenuti nell'archivio biologico nella sede di Trieste suddivisi per diverso tipo di Cardiomiopatia riscontrata.

Grazie alla Collaborazione con il Burlo Garofalo, ad oggi 657campioni sono stati analizzati mediante tecnologia di Panel Next Generation Sequencing ed hanno ottenuto un referto clinico certificato.

Nel campo dello SC, Cardiomiopatie e Miocarditi, viene offerta la possibilità di una completa caratterizzazione della patologia includendo anche metodiche avanzate, con protocolli specifici, come la Risonanza Magnetica Cardiaca, la Biopsia Endomiocardica e sua valutazione mediante caratterizzazione istopatologica, immunoistochimica e virologico molecolare, la caratterizzazione genetica mediante tecniche di Panel Next Generation Sequencing e lo studio e trattamento dei substrati aritmici mediante tecniche avanzate di mappaggio elettroanatomico ed ablazione radiofrequenza.

Oltre due terzi della casistica è gestita ambulatorialmente o in regime Day Hospital-Day Service.

Attività di Ricerca internazionale del Centro

Dal 1978 è stata sviluppata una attività strutturata di Registro e Ricerca nel campo dello Scompensamento Cardiaco e Cardiomiopatie. Tale attività è testimoniata dagli anni di prima pubblicazione dei contributi scientifici.

Ogni settimana si svolge un incontro di revisione ed aggiornamento sui casi ambulatoriali più controversi ed ogni mese si svolge un incontro di revisione critica e condivisione dei casi più complessi; semestralmente viene svolto un incontro di aggiornamento sullo stato di avanzamento dei progetti collaborativi, della ricerca e delle sottomissioni di lavori scientifici a riviste internazionali od a congressi internazionali.

La SC di Cardiologia collabora strettamente con l'IRCCS Burlo-Garofolo, con l'ICGEB e con la Faculty of Life Sciences & Medicine - King's College London, UK, per quanto riguarda gli aspetti di medicina traslazionale e rigenerativa. Tale collaborazione si è concretizzata a partire dal 2009 nella costituzione del Centro di Cardiologia Traslazionale, contiguo al Dipartimento Cardiovascolare con facilities di estrazione DNA, sequenziamento e laboratorio colture cellulari (Centro CTC, supportato da Assicurazioni Generali e Fondazione Cassa di Risparmio Trieste). Importanti studi di biologia molecolare sono stati condotti in collaborazione tra questi due centri al fine di migliorare la conoscenza dei meccanismi fisiopatologici alla base delle malattie cardiache e di identificare con sempre maggiore precisione ed efficacia possibili target terapeutici e modalità di diagnostica precoce e di miglioramento della sopravvivenza dei pazienti affetti da patologie cardiache.

E' intensamente attiva una collaborazione con l'Università di Denver CO, USA, e con la Mayo Clinic, Rochester, MN, USA, per la migliore definizione diagnostica e genetica delle Cardiomiopatie.

Appartenenza del Centro a network nazionali ed internazionali di Riferimento

LA SC di Cardiologia è interlocutrice e promotrice di accordi intra-regionali, nazionali, internazionali e transoceanici per la diagnosi e cura delle Cardiomiopatie e Scompensamento Cardiaco.

Attraverso lo strumento di partecipazione a reti collaborative (Fondazione Leduq [Trieste, London, Houston, Denver, Heidelberg, Utrecht, New York] ed accordi interuniversitari con Università di Denver CO, USA, CNR Pisa, Fondazione Monzino-MI, Stanford, CA, USA) il Centro promuove l'aggiornamento scientifico e gestisce Progetti di Ricerca anche mediante la partecipazione a Registri Internazionali.

Vengono coordinate dalla SC di Cardiologia le attività di partecipazione a registri e reti collaborative Internazionali quali:

- l'EORP Cardiomyopathy Long Term Registry;
- l'EORP HF Pilot Registry;
- l'EORP HF Long Term Registry;
- l'EORP AF General Pilot Registry;
- l'EORP AF Long term Registry;
- l'EORP PPCM Registry;
- l'EORP Pregnancy and Heart Disease Registry;
- Leduq Transoceanic Project - ARVC.

Collaborazioni di ricerca clinica con le seguenti Istituzioni:

- University of Colorado, Denver, Health Science Center, Division of Cardiology; L.Mestroni, MD, PhD;
- Indiana University School of Medicine, Indianapolis. M.Vatta PhD;
- Dept of Cardiology, University of Cincinnati; Jeffrey Towbin PhD;
- International Centre for Genetic Engineering and Biotechnology, Trieste; Prof. M.Giacca;
- Istituto di Anatomia Patologica, Università degli Studi di Trieste; R Bussani, MD;
- IRCCS Burlo, Trieste; Dipartimento di Medicina Molecolare; G. Severini PhD;
- Virginia Commonwealth University, Medicine Department; A. Abate, MD, PhD e VCU Pauley Heart Center, Richmond, VA, USA;
- Istituto di Ricerche Farmacologiche Mario Negri - Dipartimento di Ricerca Cardiovascolare; R. Latini MD, PhD;
- Università degli Studi di Trieste- Dipartimento di Ingegneria e Architettura- Scienza e Tecnologia dei Materiali; Prof. Ing. O. Sbaizero

- Mayo Clinic, Rochester, MN, USA (dr. Naveen Pereira e dal prof. Leslie T. Cooper)
- Winthrop University – New York – USA (dr. J. Gaztanaga)
- St. Thomas Hospital di Londra (Dr. Finocchiaro)
- Stanford University, CA, USA (Prof. A. Euan)
- Ospedale Niguarda, MI (dr. Ammirati)
- Università Bologna, Ospedale S. Orsola (Prof. Rapezzi)
- Faculty of Life Sciences & Medicine - King's College London, UK (Prof. M. Giacca)
- Division of Cardiology, Medical University of South Carolina (Prof. F. Del Monte)

Progetti di Ricerca con ruolo di coordinamento o unità ricerca:

- Progetto "Identification of a Gene for Autosomal Dominant Dilated Cardiomyopathy on Chromosome 9"; National Institute of Health-USA, con l'University of Colorado Cardiovascular Institute;
- Progetto "FAMILIAL CARDIOMYOPATHY REGISTRY" (NIH 99-177) che ha generato 1) NIH RO1HL69071, RR00051 GCRC-1575 e UCHSC, SOM AEF; 2) Giant Gene Titin (TTN) Involvement in Dilated Cardiomyopathy (progetto NIH/NHLBI R95 – RS&G); 3) Analysis of Altered SCN5A Ion Channel Function in the Etiology of Dilated Cardiomyopathy (AHA 0615547Z);
- Progetto American Heart Association SWA 12GRNT11770055 "Whole Exome Sequencing to Discover Dilated Cardiomyopathy Genes";
- Progetto di Ricerca Traslazionale in Cardiologia (CTC) finanziato dalla Fondazione Cassa di Risparmio di Trieste e Fondazione Generali;
- Progetto Ministeriale di Ricerca Finalizzata 2004: Meccanismi Molecolari del rimodellamento ventricolare negativo o positivo post infartuale (responsabile);
- Progetto Ministeriale di Ricerca Finalizzata: Registro Italiano Cardiomiopatie Dilatative Familiari (RICAF), basi genetico-cliniche per l'ottimizzazione terapeutica;
- Progetto Ministeriale di Ricerca finalizzata 2008 "Scompenso Cardiaco Avanzato: nuove tecnologie diagnostico-terapeutiche";
- Progetto Ministeriale di Ricerca Finalizzata: Dilatative Cardiomyopathy and Gluten-dependent autoimmunity;
- Progetto Piano Operativo regionale (POR) del Fondo Europeo di Sviluppo Regionale (FESR) 2007-13 ASSE 1 "innovazione, ricerca, trasferimento tecnologico e imprenditorialità- sostegno ai progetti di ricerca industriale ad elevato impatto sistemico per il rafforzamento delle reti della ricerca e dell'innovazione e dei distretti tecnologici dell'innovazione", bando di ricerca industriale nell'ambito della biomedicina molecolare;
- Progetto E-cardionet, Cooperazione Territoriale Europea - Programma per la Cooperazione Transfrontaliera Italia-Slovenia, 2007-2013;
- Progetto NIH 1 R01 HL116906-01A1 "Genetics, Mechanisms and Clinical Phenotypes of Arrhythmogenic Cardiomyopathy";
- Progetto FRA 1/2014-6/2016 (Fondi Ateneo UniTS): "Nuove strategie per il miglioramento della prognosi dell'infarto miocardico: ruolo dei fattori metabolico-nutrizionali" (responsabile);
- Progetto MIUR RF-2011-02348164 Ricerca Finalizzata Biomedicale "CARDIOriGEN - MicroRNAs inducing cardiac regeneration - From discovery towards clinical application CARDIOriGEN - MicroRNAs inducing cardiac regeneration" (responsabile).
- Multicenter GWAS study: "Pharmacogenomics of Non-ischemic Dilated Cardiomyopathy: A Genome-Wide Association Study" coordinato dal dr. Naveen Pereira e dal prof. Leslie T. Cooper (Mayo Clinic, Rochester, MN, USA)
- Multicenter NICM registry per lo studio: "Development of an Evidenced-Based Tool for Predication of Sudden Death in Patients with Non-Ischemic Cardiomyopathy" (Winthrop University – New York – USA (dr. J. Gaztanaga)
- Progetto sulla valutazione della distinzione del pattern elettrocardiografico tra atleti e ARVC in collaborazione con St. George Hospital di Londra (Dr. Finocchiaro)
- Progetto su caratterizzazione clinico-strumentale della CMPI e caratterizzazione genotipo-fenotipo di mutazioni di RBM20 in DCM, in collaborazione con Stanford University, CA, USA (Prof. A. Euan)
- Progetti su: 1) miocarditi attive: evoluzione di DCM. 2) Caratterizzazione miocarditi fulminanti, in collaborazione con Ospedale Niguarda, MI (dr. Ammirati)
- Progetto su caratterizzazione dei best candidates to mitraclip, in collaborazione con Università Bologna, Ospedale S. Orsola (Prof. Rapezzi).

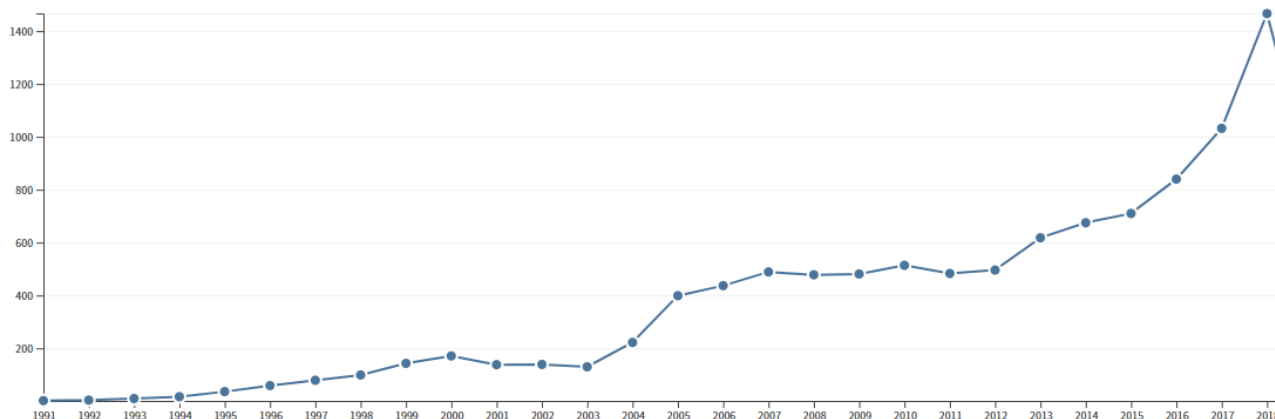
Inoltre, La SC di Cardiologia partecipa a numerose sperimentazioni cliniche multicentriche nell'ambito dello SC, Malattie del Miocardio e Cardiopatia ischemica.

Attività Scientifica del Centro

A partire dal 1988, l'attività scientifica conta oltre 580 pubblicazioni dei suoi professionisti su riviste internazionali e con un h-index di riferimento di 47 (dati Scopus/Web of Science). L'Impact Factor totale è di oltre 1000 con numerose ricerche pubblicate su riviste internazionali prestigiose come Nature, New England Journal of Medicine, Circulation e J Am Coll Cardiol. Alcuni professionisti operanti presso la SC di Cardiologia di Trieste sono componenti di prestigiosi Editorial Board nazionali ed internazionali. Il dato di qualità dell'attività scientifica è sottolineato dal numero di citazioni dei lavori pubblicati. Negli ultimi anni sempre maggior attenzione viene posta dalla comunità scientifica ai lavori pubblicati con crescente aumento del numero di citazioni.

Di seguito un elenco selezionato di lavori pubblicati su riviste indicizzate medline **dal 2012 al 2018:**

Sum of Times Cited per Year



1: Iorio A, Sinagra G, Di Lenarda A. Administrative database, observational research and the Tower of Babel. *Int J Cardiol.* 2019 Jun 1;284:118-119. doi: 10.1016/j.ijcard.2018.12.009. Epub 2018 Dec 5. PubMed PMID: 30558991.

2: Benussi B, Gatti G, Gripsi F, Biondi F, Porcari A, Ruggiero D, Belgrano M, Rauber E, Sinagra G, Pappalardo A. Clinical Validation of a Coronary Surgery Technique That Minimizes Aortic Manipulation. *Ann Thorac Surg.* 2019 Apr;107(4):1166-1173. doi: 10.1016/j.athoracsur.2018.09.063. Epub 2018 Nov 13. PubMed PMID: 30444991.

3: Fabris E, Ottervanger JP, Hermanides RS, Ten Berg JM, Sinagra G, Koopmans PC, Giannitsis E, Hamm C, van 't Hof AWJ. Effect of early tirofiban administration on N-terminal pro-B-type natriuretic peptide level in patients treated with primary percutaneous coronary intervention. *Catheter Cardiovasc Interv.* 2019 Apr 1;93(5):E293-E297. doi: 10.1002/ccd.28043. Epub 2018 Dec 26. PubMed PMID: 30585388.

4: Gentile P, Paldino A, Cannatà A, Artico J, Barbati G, Ramani F, Fabris E, Aleksova A, Stolfo D, Zecchin M, Merlo M, Sinagra G. Left bundle branch block in dilated cardiomyopathy with intermediate left ventricular dysfunction: Clinical

phenotyping and outcome correlates. *Int J Cardiol.* 2019 Mar 1;278:180-185. doi: 10.1016/j.ijcard.2018.11.005. Epub 2018 Nov 5. PubMed PMID: 30416030.

5: Padoan L, Beltrami AP, Stenner E, Beleù A, Ruscio M, Sinagra G, Aleksova A. Left ventricular adverse remodeling after myocardial infarction and its association with vitamin D levels. *Int J Cardiol.* 2019 Feb 15;277:159-165. doi: 10.1016/j.ijcard.2018.08.052. Epub 2018 Aug 18. PubMed PMID: 30139699.

6: Iorio A, Rea F, Barbati G, Scagnetto A, Peruzzi E, Garavaglia A, Corrao G, Sinagra G, Di Lenarda A. HF progression among outpatients with HF in a community setting. *Int J Cardiol.* 2019 Feb 15;277:140-146. doi: 10.1016/j.ijcard.2018.08.049. Epub 2018 Aug 16. PubMed PMID: 30131230.

7: Gatti G, Maraldo O, Benussi B, Bussani R, Castaldi G, Sinagra G, Pappalardo A. Early and Late Survival of On-Pump Cardiac Surgery Patients Formerly Affected by Lymphoma. *Heart Lung Circ.* 2019 Feb;28(2):334-341. doi: 10.1016/j.hlc.2017.11.008. Epub 2017 Nov 28. PubMed PMID: 29233497.

8: Porcari A, De Angelis G, Romani S, Paldino A, Artico J, Cannatà A, Gentile P, Pinamonti B, Merlo M, Sinagra G. Current diagnostic strategies for dilated cardiomyopathy: a comparison of imaging techniques. *Expert Rev Cardiovasc Ther.* 2019 Jan;17(1):53-63. doi: 10.1080/14779072.2019.1550719. Epub 2018 Nov 26. Review. PubMed PMID: 30457393.

9: 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, Ciccoira 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. PubMed PMID: 30098827.

10: Aquaro GD, Pingitore A, Di Bella G, Piaggi P, Gaeta R, Grigoratos C, Altinier A, Pantano A, Strata E, De Caterina R, Sinagra G, Emdin M. Prognostic Role of Cardiac Magnetic Resonance in Arrhythmogenic Right Ventricular Cardiomyopathy. *Am J Cardiol.* 2018 Nov 15;122(10):1745-1753. doi: 10.1016/j.amjcard.2018.08.007. Epub 2018 Aug 21. PubMed PMID: 30220419.

11: Magri D, Agostoni P, Sinagra G, Re F, Correale M, Limongelli G, Zachara E, Mastromarino V, Santolamazza C, Casenghi M, Pacileo G, Valente F, Morosin M, Musumeci B, Pagannone E, Maruotti A, Uguccioni M, Volpe M, Autore C. Clinical and prognostic impact of chronotropic incompetence in patients with hypertrophic cardiomyopathy. *Int J Cardiol.* 2018 Nov 15;271:125-131. doi: 10.1016/j.ijcard.2018.04.019. Epub 2018 Aug 4. PubMed PMID: 30087038.

12: Aquaro GD, Negri F, De Luca A, Todiere G, Bianco F, Barison A, Camastra G, Monti L, Dellegrottaglie S, Moro C, Lanzillo C, Scatteia A, Di Roma M, Pontone G, Perazzolo Marra M, Di Bella G, Donato R, Grigoratos C, Emdin M, Sinagra G. Role

of right ventricular involvement in acute myocarditis, assessed by cardiac magnetic resonance. *Int J Cardiol.* 2018 Nov 15;271:359-365. doi: 10.1016/j.ijcard.2018.04.087. Epub 2018 Jul 22. PubMed PMID: 30045820.

13: Gatti G, Castaldi G, Morra L, Forti G, Benussi B, Sinagra G, Pappalardo A. Erratum to "Routine use of bilateral internal thoracic artery grafting in women does not increase in-hospital mortality and could improve long-term survival" [*Int. J. Cardiol.* 266 (2018) 43-49]. *Int J Cardiol.* 2018 Nov 15;271:403. doi: 10.1016/j.ijcard.2018.07.017. Epub 2018 Jul 6. PubMed PMID: 29983252.

14: Masè M, Merlo M, Vitrella G, Stolfo D, Sinagra G. Left ventricular reverse remodeling prediction in non-ischemic cardiomyopathy: present and perspectives. *Expert Rev Cardiovasc Ther.* 2018 Nov;16(11):771-773. doi: 10.1080/14779072.2018.1533815. Epub 2018 Oct 11. PubMed PMID: 30295546.

15: Gatti G, Benussi B, Brunetti D, Ceschia A, Porcari A, Biondi F, Castaldi G, Luzzati R, Sinagra G, Pappalardo A. The fate of patients having deep sternal infection after bilateral internal thoracic artery grafting in the negative pressure wound therapy era. *Int J Cardiol.* 2018 Oct 15;269:67-74. doi: 10.1016/j.ijcard.2018.07.090. Epub 2018 Jul 20. PubMed PMID: 30049494.

16: Albani S, Fabris E, Doimo S, Barbati G, Perkan A, Merlo M, Gatti G, Di Lenarda A, Van't Hof AWJ, Maras P, Sinagra G. Early occurrence of drug intolerance as risk factor during follow-up in patients with acute coronary syndrome or coronary revascularization. *Eur Heart J Cardiovasc Pharmacother.* 2018 Oct 1;4(4):195-201. doi: 10.1093/ehjcvp/pvy017. PubMed PMID: 29846559.

17: Sinagra G, Merlo M, Cannatà A. Gender medicine in dilated cardiomyopathy: pride and prejudice. *Eur J Heart Fail.* 2018 Oct;20(10):1401-1403. doi: 10.1002/ejhf.1280. Epub 2018 Aug 9. PubMed PMID: 30091491.

18: Negri F, De Luca A, Pappalardo A, Bussani R, Pagnan L, Cernetti C, Gatti G, Sinagra G. Cardiac hamartoma. *J Card Surg.* 2018 Oct;33(10):640-642. doi: 10.1111/jocs.13802. Epub 2018 Aug 29. PubMed PMID: 30157544.

19: Gatti G, Morra L, Castaldi G, Maschietto L, Gripshi F, Fabris E, Perkan A, Benussi B, Sinagra G, Pappalardo A. Preoperative Intra-Aortic Counterpulsation in Cardiac Surgery: Insights From a Retrospective Series of 588 Consecutive High-Risk Patients. *J Cardiothorac Vasc Anesth.* 2018 Oct;32(5):2077-2086. doi: 10.1053/j.jvca.2017.12.008. Epub 2017 Dec 6. PubMed PMID: 29325843.

20: Carriere C, Stolfo D, Baglio V, Gerloni R, Merlo M, Barbati G, Cannatà A, Biolo G, Sinagra G. Outcome of the multidimensional prognostic index in ultra-octogenarian patients hospitalized for cardiovascular diseases. *J Cardiovasc Med (Hagerstown).* 2018 Oct;19(10):536-545. doi: 10.2459/JCM.0000000000000699. PubMed PMID: 30119097.

21: Cannata' A, Merlo M, Artico J, Gentile P, Camparini L, Cristallini J, Porcari A, Loffredo F, Sinagra G. Cardiovascular aging: the unveiled enigma from bench to

bedside. *J Cardiovasc Med (Hagerstown)*. 2018 Oct;19(10):517-526. doi: 10.2459/JCM.0000000000000694. Review. PubMed PMID: 30024423.

22: Iorio A, Senni M, Barbati G, Greene SJ, Poli S, Zambon E, Di Nora C, Cioffi G, Tarantini L, Gavazzi A, Sinagra G, Di Lenarda A. Prevalence and prognostic impact of non-cardiac co-morbidities in heart failure outpatients with preserved and reduced ejection fraction: a community-based study. *Eur J Heart Fail*. 2018 Sep;20(9):1257-1266. doi: 10.1002/ejhf.1202. Epub 2018 Jun 19. PubMed PMID: 29917301.

23: Gatti G, Castaldi G, Morra L, Forti G, Benussi B, Sinagra G, Pappalardo A. Routine use of bilateral internal thoracic artery grafting in women does not increase in-hospital mortality and could improve long-term survival. *Int J Cardiol*. 2018 Sep 1;266:43-49. doi: 10.1016/j.ijcard.2017.12.049. Erratum in: *Int J Cardiol*. 2018 Nov 15;271:403. PubMed PMID: 29887471.

24: Paldino A, De Angelis G, Merlo M, Gigli M, Dal Ferro M, Severini GM, Mestroni L, Sinagra G. Genetics of Dilated Cardiomyopathy: Clinical Implications. *Curr Cardiol Rep*. 2018 Aug 13;20(10):83. doi: 10.1007/s11886-018-1030-7. Review. PubMed PMID: 30105555.

25: Merlo M, Masè M, Vitrella G, Belgrano M, Faganello G, Di Giusto F, Boscutti A, Gobbo M, Gigli M, Altinier A, Lesizza P, Barbati G, Ramani F, De Luca A, Morea G, Cova MA, Stolfo D, Sinagra G. Usefulness of Addition of Magnetic Resonance Imaging to Echocardiographic Imaging to Predict Left Ventricular Reverse Remodeling in Patients With Nonischemic Cardiomyopathy. *Am J Cardiol*. 2018 Aug 1;122(3):490-497. doi: 10.1016/j.amjcard.2018.04.017. Epub 2018 May 21. PubMed PMID: 29958711.

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Attività Didattica e di Formazione

Il Centro è sede di formazione e tirocinio per numerosi Corsi di Laurea e Scuole di Specializzazione e Master ed in tali contesti viene sviluppata una intensa attività educativa e di formazione.

Vengono periodicamente organizzate e promosse le attività didattiche e di aggiornamento per gli operatori sanitari operanti in azienda ed operanti in altre aziende con la partecipazione di uditori e relatori anche internazionali.

Biennialmente, dal 1997, viene organizzato il Corso avanzato "Incontri in Cardiologia, Scopenso Cardiaco e Cardiomiopatie" che si svolge in due giornate, con lo scopo di confrontare esperienze e ricerche e di aggiornare i discenti sulle ultime acquisizioni ed esperienze nel campo. Il Corso ha come relatori professionisti provenienti da istituti nazionali ed internazionali ed attrae mediamente oltre 400 discenti anche da altre regioni d'Italia e da altri paesi d'Europa.

Il centro è anche promotore di congressi regionali organizzati con il supporto della SIC triveneto e di congressi internazionali tra i quali:

- Advances in Heart Failure, Cardiomyopathies And Pericardial Diseases organizzato con il supporto della Fondazione Menarini.

Annualmente vengono organizzati:

- incontri di aggiornamento in tema di management e imaging delle cardiomiopatie e scompenso cardiaco;
- attività di aggiornamento sulle Miocarditi e su problematiche di gestione clinica dei pazienti;

- corsi di Cardionursing, parallelamente ai Corsi “Incontri in Cardiologia”, per gli operatori sanitari (in particolare Infermieri) per l’aggiornamento sulla gestione dei casi complessi.

Complessivamente, vi è una attività annuale molto intensa (anche con eventi ECM) di confronto, revisione critica, meeting con oltre 700 incontri all’anno, calendarizzati, che coinvolgono gli specializzandi, il personale medico ed infermieristico e professionisti nazionali ed internazionali.

Attività di Scuola di Specializzazione Postlauream e di Didattica Universitaria

Il Centro è sede della Scuola di Specializzazione postlauream in Malattie dell’Apparato Cardiovascolare, è parte della rete del Dottorato in Biomedicina Molecolare e di Master di I e II livello in particolare in Emergenze e Urgenze. Conta 32 specializzandi operanti in tutte le sezioni del Centro ed in altre strutture ospedaliere della Regione Friuli Venezia Giulia ed Extra rete. Sono previsti periodi di formazione in strutture internazionali di riferimento per la diagnosi ed il trattamento delle patologie cardiovascolari, incluso lo Scompenso Cardiaco e le Cardiomiopatie. Alcune attività formative presso ICGEB ed il Laboratorio per la Cardiologia Traslazionale riguardano la Medicina Rigenerativa e Molecolare nel contesto dello Scompenso Cardiaco e la Genetica nel contesto delle Cardiomiopatie.

L’attività didattica per il Corso di Laurea in Medicina e Chirurgia, Biotecnologie, Scienze Infermieristiche, Scuole di Specializzazione, Dottorati e master dell’Università’ di Trieste, viene svolta anche con la collaborazione dei professionisti medici ed infermieri operanti nel Centro e nell’intera rete formativa (ICGEB, IRCCS Burlo, Centro Cardiovascolare, Azienda Santa Maria della Misericordia UD, Azienda S. Maria degli Angeli Pordenone, Aree di Emergenza FVG, Presidio Ospedaliero di Gorizia-Monfalcone).

La SC di Cardiologia è attiva nella promozione di scambi tra studenti e riceve annualmente studenti e professionisti provenienti da università nazionali ed estere che visitano o richiedono la frequenza nella struttura nell’ambito di vari programmi di cooperazione nazionale ed internazionale.

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