

INFORMAZIONI PERSONALI

Prof. Antonio Amodeo



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Sesso Uomo | Data di nascita | 16 Novembre 1957 Nazionalità Italiana

ESPERIENZE PROFESSIONALI

Da Febbraio 2020 ad oggi

Direttore dell'Unità Operativa Complessa: Scompenso, Trapianto e Assistenza Meccanica Cardio-Respiratoria, Ospedale Pediatrico Bambino Gesù, Roma.

Da Maggio 2012 ad oggi

Responsabile del Percorso delle Cardiopatie Congenite dell'Adulto (GUCH), Fondazione Policlinico Universitario Gemelli, Roma.

Da Giugno 2010 a
Gennaio 2020

Direttore Unità di Funzione Assistenza Meccanica CardioRespiratoria e Trapianto Cuore Artificiale

Da Aprile 1991 a Giugno
2010

Cardiochirurgo Pediatrico Staff presso OPBG.

Da Luglio 1990 a Marzo
1991

Assistente Cardiochirurgo Pediatrico presso OPBG.

FORMAZIONE E TITOLI DI STUDIO

LAUREA IN MEDICINA E CHIRURGIA

Università degli Studi di Napoli, Marzo 1983

SPECIALIZZAZIONE IN CARDIOLOGIA

Università degli Studi di Napoli, Luglio 1986

SPECIALIZZAZIONE IN CARDIOCHIRURGIA

Università degli Studi di Napoli, Luglio 1991

OTT 1981 – OTT 1983	Interno in Chirurgia del Cuore e dei Grandi Vasi, Università degli Studi di Napoli
GIU 1984 - GEN 1986	Interno in Cardiochirurgia Pediatrica, OPBG, Roma
MAR 1986 - NOV 1986	Assistente cardiochirurgo, Dipartimento Chirurgia Cardiotoracica –Southampton General Hospital - Southampton, Inghilterra
GEN 1987- OTT 1987	Assistente cardiochirurgo, Dipartimento Chirurgia Cardiotoracica - Hospital Sick Children, Londra
NOV 1987 – MAR 1988	Interno in Cardiochirurgia Pediatrica, Ospedale Pediatrico Bambino Gesù, Roma
MAG 1988 – OTT 1988	Assistente Cardiochirurgo – Dipartimento di Chirurgia Cardiotoracica, Hospital Laennec, Parigi
NOV 1988 – GIU1990	Interno in Cardiochirurgia Pediatrica, Ospedale Pediatrico Bambino Gesù, Roma

ALTRE ESPERIENZE PROFESSIONALI

Gen 1996 – Dic 1996: Responsabile della Chirurgia Cardiaca presso il “Mater Misericordiae Hospital - Nairobi” – Kenya per il MDC4 World Laboratory Program (Epidemiological Study and Training of Staff for the Establishment of Local Unit for Prevention and Treatment of heart Disease in African Countries)

Lingua madre Italiano

<i>Altre lingue</i>	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
<i>Inglese</i>	C1	C1	C1	C1	C1
<i>Francese</i>	A2	A2	A2	A2	A

ATTIVITA' SCIENTIFICA E AFFILIAZIONI A SOCIETA' SCIENTIFICHE

- Membro della Società Europea di Chirurgia Cardiotoracica
 - Membro Società Italiana di Chirurgia Cardiaca
 - Membro del GMC (Marzo 1986)
 - Membro Supervisore di “Medica Project, Marie Curie Initial Training Networks” (Seventh Framework Programme (FP7))
 - Membro di “International Heart Lung Transplantation Society”
 - Membro di “RASAD International Advisory Board for Epidemiological Studies”, Qatar Science & Technology Park
-

PREMI

- 1990 - Vincitore del Premio Donatelli – De Gasperi, Cardiochirurgia – Ospedale Niguarda – Milano. Titolo del Lavoro: Extracardiac caval-pulmonary connection.
- 1991 – Vincitore del Premio Alexis Carrel - Award for clinical research al 5th International Symposium on Cardiac Surgery, Roma 25-28 Maggio 1991. Titolo del Lavoro: Modified Fontan Operation

CAPITOLI NEI LIBRI:

- 1) Cardiothoracic Surgery Review, Kenneth L.Franco, Vinod H. Tourani: Cardiopulmonary bypass in Pediatric Patients
- 2) Cardiothoracic Surgery Review, Kenneth L.Franco, Vinod H. Tourani: Mechanical Assist for Single Ventricle Failure
- 3) ISHLT Monograph Series, Pediatric Ventricular Assist Devices: Chronic VAD Therapy in Pediatric

PUBBLICAZIONI

- 1) **A.Amodeo**, R.Di Donato, A.Dessanti, G.Caccia, D.Zaltron, D.Alberti, F.Callea, C.Marcelletti: Relief of membranous obstruction of the inferior vena cava in a 5-year-old child. Journal of Thoracic Cardiovascular Surgery, Vol.92 N. 6: 1101-1103, Dicembre 1986
- 2) L.Ballerini R.Di Donato, **A.Amodeo**, A.Cifarelli, L.Pasquini, B.Marino, C.Marcelletti: Correzioni "funzionali" delle cardiopatie congenite. Cardiologia, Vol. 30 N. 11: 1071-1076, Novembre 1985
- 3) **A.Amodeo**, G.Touati, P.Vouhè, F.Vernant, F.Leca, J.Y.Neveux: Tetralogy of Fallot under 6 months of life: is the primary repair a good option ? Il Cuore Vol. V, N. 4; 481-486, Ottobre-Dicembre 1988

- 4) **A.Amodeo**, C. Squitieri, C. Martelletti: La Cardiocirurgia d'urgenza in epoca neonatale. Aggiornamenti in Cardiologia, 30-42, 1989
- 5) **A.Amodeo**, R.Di Donato, A.Corno, E.Mazzera, S.Giannico, S.Nava, C.Marcelletti: Systemic atrioventricular conduit for extracardiac bypass of hypoplastic systemic atrioventricular valve. Eur J Cardio-Thorac Surg 1990; 4: 601-604
- 6) G.D.Touati, P.R.Vouhè, **A.Amodeo**, P.Pouard, P.Mauriat, F.Leca, J.Y.Neveux: Primary repair of tetralogy of Fallot in infancy. Journal of Thoracic Cardiovascular Surgery, Vol. 99, N.3, 396-403, 1990
- 7) **A.Amodeo**, B.Keeton, D.Sutherland, J. Monro: Pulmonary atresia with intact ventricular septum: is the neonatal repair advisable ? European Journal of Cardiothoracic Surgery, 1991; 5: 17-21
- 8) **A.Amodeo**, A.Corno, B.Marino, M.G.Carta, C.Marcelletti: Combined Repair of Transposed Great Arteries and Total Anomalous Pulmonary Venous Connection. The Annals of Thoracic Surgery, 1990; 50:820-1
- 9) **A.Amodeo**, E.Mazzera, B.Marino, S.Marianeschi, C.Martelletti: Double outlet right atrium: a peculiar form of atrioventricular canal. Heart Surgery 1995, 187-190
- 10) R.M.Di Donato, **A.Amodeo**, D.di Carlo, L.Galletti, G.Rinelli, L.Pasquini, C.Marcelletti: Staged modified Fontan operation for complex cardiac anomalies with sub aortic obstruction. Journal of Thoracic Cardiovascular Surgery 1993, Vol. 105, N.3; 398-405
- 11) S.Giannico, A.Corno, B.Marino, M.P.Cicini, G.Gagliardi, **A.Amodeo**, S.Picardo, C.Marcelletti: Total extracardiac right heart bypass. Circulation 1992; 86/II: II, 110-7
- 12) **A.Amodeo**, F.S.Iorio, A. Giamberti, C.Marcelletti: Modified Fontan operation. Acta Chirurgica Austriaca 89-91, 1993, Heft 2/1993, 25 Jahrgang
- 13) A.Carotti, F.S.Iorio, **A.Amodeo**, A.Giamberti, S.Marianeschi, S.Nava, G.De Simone, D.di Carlo, C.Marcelletti: Total cavopulmonary direct anastomosis: a logical approach in selected patients. Annals of Thoracic Surgery 1993; 56:963-4
- 14) Giamberti A, Giannico S, Squitieri C, Iorio FS, **Amodeo A**, Carotti A, Picardo S, Marcelletti C Neonatal pulmonary autograft implantation for cardiac tumor involving aortic valve. Ann Thorac Surg. 1995 May;59(5):1219-21
- 15) Di Carlo DC, Carotti A, **Amodeo A**. Total cavopulmonary direct anastomosis. J Thorac Cardiovasc Surg. 1997 Apr;113(4):808-9.
- 16) **Amodeo A**, Galletti L, Marianeschi S, Picardo S, Giannico S, Di Renzi P, Marcelletti C. Extracardiac Fontan operation for complex cardiac anomalies: 7 years' experience. J Thorac Cardiovasc Surg. 1997 Dec;114(6):1020-30
- 17) **Amodeo A**, Marino B. Pulmonary arteriovenous fistulas in patients with left isomerism and cardiac malformations. Cardiol Young. 1998 Jul;8(3):283-4
- 18) Oppido G, Carotti A, Albanese SB, **Amodeo A**, Pasquini L, Di Donato RM. Transposition with absent pulmonary valve syndrome: early repair of a rare case. Ann Thorac Surg. 2001 May;71(5):1686-8.
- 19) Grigioni M, Daniele C, Del Gaudio C, Morbiducci U, Balducci A, D'Avenio G, **Amodeo A**, Barbaro V, Di Donato R. Numerical simulation of a realistic total cavo-pulmonary connection: effect of unbalanced pulmonary resistances on hydrodynamic performance. Int J Artif Organs. 2003 Nov;26(11):1005-14.
- 20) **A.Amodeo**, R.Di Donato, A.Carotti, B.Marino, C.Marcelletti: Pulmonary arteriovenous fistulas and polysplenia syndrome. J Thorac Cardiovasc Surg 1994 May; 107 (5): 1378-9
- 21) A.Giamberti, S Giannico, C.Squitieri, F.S.Iorio, **A.Amodeo**, A.Carotti, S.M.Marianeschi, M.T.Cascarano, S.Picardo, C.Marcelletti: Neonatal successful pulmonary autograft implantation (Ross operation) for cardiac tumour involving aortic valve. Ann Thorac Surg 1995; 59: 1219-21

- 22) D.Di Carlo , A.Carotti , **A.Amodeo** : Total cavopulmonary direct anastomosis: J Thorac Cardiovasc Surg 1997 Apr; 113 (4): 808-9
- 23) **A.Amodeo**, L.Galletti , S.Marianeschi ,S.Picardo , S.Giannico, P.Di Renzi , C.Marceletti: Extracardiac Fontan operation for complex cardiac anomalies : seven years experience. J Thorac Cardiovasc Surg 1997 Dec, 114(&): 1020-30
- 24) **A.Amodeo**, B. Marino : Pulmonary arteriovenous fistulas in patients with left isomerism and cardiac malformations. Cardiol Young. 1998 Jul: 8(3) : 283-5
- 25) **A.Amodeo**,S.Picardo,G.Catena, R. Di Donato: Cardiochirurgia neonatale e tecniche di rianimazione.Prospettive in pediatria 28,21-24,1998.
- 26) M.Grigioni , **A.Amodeo**, C.Daniele , G.D'Avenio , R.Formigari , R.Di Donato : Particle image velocimetry analysis of the flow field in the total cavopulmonary connection. Artif Organs. 2000 Dec;24(12): 946-52
- 27) G.Oppido, A.Carotti , SB.Albanese, **A.Amodeo** ,L. Pasquini ,R.Di Donato: Trasposition with absent pulmonary valve syndrome: early repair of a rare case. Ann Thorac Surg. 2001 May; 71(5): 1686-8
- 28) **A.Amodeo** , M.Grigioni , G.Oppido , G.D'Avenio , G.Pedrizzetti , S.Giannici S., Filippelli , R.Di Donato : The beneficial vortex and best spatial arrangement in total extracardiac cavopulmonary connection. J Thorac Cardiovasc Surg. 2002 Sept; 124(3): 471-8
- 29) M.Grigioni, C.Daniele, C. Del Gaudio, U. Morbiducc , A.Calducci, G.D'Avenio, **A.Amodeo** , V.Barbaro , R.Di Donato : Numerical simulation of a realistic total cavo-pulmonary connection: efficacy of unbalanced pulmonary resistances on hydrodynamic performance. Int J Artif Organs. 2003 Nov ; 26 (11) : 1005-14
- 30) **Amodeo A**, Grigioni M, D'Avenio G, Daniele C, Di Donato RM. The patterns of flow in the total extracardiac cavopulmonary connection. Cardiol Young. 2004;14 Suppl 3:53-6.
- 31) **A.Amodeo**, D. Di Carlo, M. Grigioni, M. De Santis,R. M. Di Donato: Early primary Kawashima operation combined with direct hepatic-to-azygos vein connection: a new logical approach. J. Thorac Cardiovasc Surg. 2005, 139,4,949-950
- 32) **Amodeo A**, Di Carlo D, Grigioni M, De Santis M, Di Donato RM. Early primary Kawashima operation combined with direct hepatic vein-to-azygos vein connection: a new logical approach. J Thorac Cardiovasc Surg. 2005 Apr;129(4):949-50
- 33) Di Carlo D, Santilli A, **Amodeo A**, Ballerini L. Acquired aortic regurgitation after repair of congenital heart defects: another pitfall of "corrective" surgery? Eur J Cardiothorac Surg. 2005 Sep;28(3):508-9.
- 34) Brancaccio G, Villa E, Girolami E, Michielon G, Feltri C, Mazzera E, Costa D, Isacchi G, Iannace E, **Amodeo A**, Di Donato RM.:Inflammatory cytokines in pediatric cardiac surgery and variable effect of the hemofiltration process.Perfusion. 2005 Sep;20(5):263-8.
- 35) M.Grigioni, G. D'Avenio G, **A. Amodeo** et al: Power dissipation associated with surgical operation's hemodynamics:critical issue and application to total cavopulmonary connection. J Biomech. 2006,39(9):1583-94
- 36) Grigioni M, D'Avenio G, **Amodeo A**, Di Donato RM. Power dissipation associated with surgical operations' hemodynamics: critical issues and application to the total cavopulmonary connection.. J Biomech. 2006;39(9):1583-94.
- 37) Giannico S, Hammad F, **Amodeo A**, Michielon G, Drago F, Turchetta A, Di Donato R, Sanders SP.Clinical outcome of 193 extracardiac Fontan patients: the first 15 years.J Am Coll Cardiol. 2006 May 16;47(10):2065-73.
- 38) Brancaccio G, **Amodeo A**, Rinelli G, Filippelli S, Sanders SP, Di Donato RM.Double-outlet right atrium: anatomic and clinical considerations.Ann Thorac Surg. 2007 Feb;83(2):619-21.
- 39) **A. Amodeo**, R.M. Di Donato:The unifocal bilateral bidirectional cavopulmonary anastomosis. Ann Thorac Surg. 2007 Dec, 84 (6) 2134-5

- 40) Brancaccio G, Michielon G, Filippelli S, Perri G, Di Carlo D, Iorio FS, Oricchio G, Iacobelli R, **Amodeo A**, Di Donato RM. Transannular patching is a valid alternative for tetralogy of Fallot and complete atrioventricular septal defect repair. *J Thorac Cardiovasc Surg*. 2009 Apr;137(4):919-21
- 41) **A. Amodeo**, M. Grigioni et al: Improved management of systemic venous anomalies in single ventricle: new rationale. *J Thorac Cardiovasc Surg*. 2009 Nov;138(5):1154-9
- 42) **Amodeo A**, Grigioni M, Filippelli S, Gagliardi MG, Del Gaudio C, Morbiducci U, D'Avenio G, Brancaccio G, Di Donato RM. Improved management of systemic venous anomalies in a single ventricle: New rationale. *J Thorac Cardiovasc Surg*. 2009 Nov;138(5):1154-9.
- 43) Barcudi S, Sanders SP, Di Donato RM, de Zorzi A, Iacobelli R, **Amodeo A**, Gagliardi MG, Borgia F, Pongiglione G, Rinelli G. Aberrant Left Innominate Artery From the Left Descending Aorta in Right Aortic Arch: Echocardiographic Diagnosis. *J Am Soc Echocardiogr*. 2010 Feb;23(2):221.e5-221.e7. Epub 2009 Oct
- 44) Gianluca Brancaccio, MD, PhD; **A. Amodeo**, MD; Zaccaria Ricci, MD; Stefano Morelli, MD; Giulia Gagliardi, MD; Roberta Iacobelli, MD; Sergio Filippelli, MD; Sergio Picardo, MD; Francesco Parisi, MD; Giacomo Pongiglione, MD and Roberto M. Di Donato, MD. Mechanical Assist Device As A Bridge To Heart Trasplantation In Children Less Than 10 Kg., *Ann Thorac Surg*. 2010 Jul;90(1):58-62
- 45) **Amodeo A**, Brancaccio G, Michielon G, Filippelli S, Ricci Z, Morelli S, Gagliardi MG, Iacobelli R, Pongiglione G, Di Donato RM. Pneumatic pulsatile ventricular assist device as a bridge to heart transplantation in pediatric patients.. *Artif Organs*. 2010 Nov;34(11):1017-22
- 46) Brancaccio G, **Amodeo A**, Ricci Z, Morelli S, Gagliardi MG, Iacobelli R, Michielon G, Picardo S, Parisi F, Pongiglione G, Di Donato RM. Mechanical assist device as a bridge to heart transplantation in children less than 10 kilograms. *Ann Thorac Surg*. 2010 Jul;90(1):58-62.
- 47) **Amodeo A**, Adorisio R (2012). Left ventricular assist device in Duchenne Cardiomyopathy: Can we change the natural history of cardiac disease? . *INTERNATIONAL JOURNAL OF CARDIOLOGY*, ISSN: 0167-5273
- 48) Gandolfo F, Brancaccio G, Secinaro. **A. AmodeoA** (2012). Perigraft seroma mimicking cardiac tamponade after implantation of Berlin Heart EXCOR device in an infant. . *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*, ISSN: 0022-5223
- 49) Brancaccio G, Filippelli S, Michielon G, Iacobelli R, Alfieri S, Gandolfo F, Pongiglione G, Albanese S, Perri G, Parisi F, Carotti A, **Amodeo A** (2012). Ventricular Assist Devices as a Bridge to Heart Transplantation or as Destination Therapy in Pediatric Patients. *TRANSPLANTATION PROCEEDINGS*, vol. 44, p. 2007-2012, ISSN: 0041-1345, doi: 10.1016/j.transproceed.2012.06.034
- 50) Fragasso T, Ricci Z, Grutter G, Albanese S, Varano C, **Amodeo A**, Cogo P (2011). Incidence of Healthcare-Associated Infections in a Pediatric Population With an Extracorporeal Ventricular Assist Device. *ARTIFICIAL ORGANS*, vol. 35, p. 1110-1114, ISSN: 0160-564X, doi: 10.1111/j.1525-1594.2011.01389.x
- 51) **Amodeo A**, Oliverio M, Versacci P, Marino B. Spiral shapes in heart and shells: when form and function do matter.. *Eur J Cardiothorac Surg*. 2012 Mar;41(3):473-5.
- 52) **Amodeo A**, Adorisio R. Left ventricular assist device in Duchenne cardiomyopathy: can we change the natural history of cardiac disease?. *Int J Cardiol*. 2012 Nov 29;161(3):e43.
- 53) Iodice F, Testa G, **Amodeo A**, Cogo P. Inappropriate use of neurally adjusted ventilator assist. *BMJ Case Rep*. 2012 Sep 3;2012.
- 54) Gandolfo F, Brancaccio G, Secinaro A, **Amodeo A**. Perigraft seroma mimicking cardiac tamponade after implantation of Berlin Heart EXCOR device in an infant. *J Thorac Cardiovasc Surg*. 2013 Jan;145(1):e3-4.
- 55) Ricci Z, **Amodeo A**. Prospective trial of a pediatric ventricular assist device.. *N Engl J Med*. 2012 Nov 29;367(22):2159-60; author reply 2160-1.

- 56) Brancaccio G, Gandolfo F, Carotti A, **Amodeo A**. Ventricular assist device in univentricular heart physiology.. *Interact Cardiovasc Thorac Surg*. 2013 Apr;16(4):568-9.
- 57) Grutter G, **Amodeo A**, Brancaccio G, Parisi F. Panel reactive antibody monitoring in pediatric patients undergoing ventricle assist device as a bridge to heart transplantation. *Artif Organs*. 2013 May;37(5):435-8.
- 58) Brancaccio G, Polito A, Hoxha S, Gandolfo F, Giannico S, **Amodeo A**, Carotti A. The Ross procedure in patients aged less than 18 years: The midterm results. *J Thorac Cardiovasc Surg*. 2013 Mar 12.
- 59) Polito A, Netto R, Soldati M, Brancaccio G, Grutter G, **Amodeo A**, Ricci Z, Morelli S, Cogo P. Neurological Complications During Pulsatile Ventricular Assistance With the Berlin Heart EXCOR in Children: Incidence and Risk Factors..*Artif Organs*. 2013 Apr 5.
- 60) Di Chiara L, Ricci Z, Brancaccio G, Gandolfo F, **Amodeo A**. Left ventricular retraining after arterial switch operation facilitated by mechanical circulatory support.*J Heart Lung Transplant*. 2013 Aug;32(8):842-3
- 61) Biondi-Zoccai G, De Falco E, Peruzzi M, Cavarretta E, Mancone M, Leoni O, Caristo ME, Lotrionte M, Marullo AG, **Amodeo A**, Pacini L, Calogero A, Petrozza V, Chimenti I, D'Ascenzo F, Frati G. A novel closed-chest porcine model of chronic ischemic heart failure suitable for experimental research in cardiovascular disease.*Biomed Res Int*. 2013;2013:410631.
- 62) Di Nardo M, Li Pira G, **Amodeo A**, Cecchetti C, Giorda E, Ceccarelli S, Brescia LP, Pirozzi N, Rutella S, Locatelli F, Bertaina A. Adoptive immunotherapy with antigen-specific T cells during extracorporeal membrane oxygenation (ECMO) for Adenovirus-related respiratory failure in a child given haploidentical stem cell transplantation. *Pediatr Blood Cancet*. 2014 Feb;61(2):376-9.
- 63) Di Nardo M, Locatelli F, Palmer K, **Amodeo A**, Lorusso R, Belliato M, Cecchetti C, Perrotta D, Picardo S, Bertaina A, Rutella S, Rycus P, Di Ciommo V, Holzgraefe B. Extracorporeal membrane oxygenation in pediatric recipients of hematopoietic stem cell transplantation: an updated analysis of the Extracorporeal Life Support Organization experience. *Intensive Care Med*. 2014 May;40(5):754-6.
- 64) Di Nardo M, Locatelli F, Di Florio F, Cecchetti C, **Amodeo A**, Rutella S, Bertaina A. Extracorporeal membrane oxygenation as a bridge to allogeneic T-cell depleted hematopoietic stem cell transplantation in infants with severe combined immune deficiency: is it feasible? *Intensive Care Med*. 2014 Oct;40(10):1600-1.
- 65) Giovannoni I, Callea F, Travaglini L, **Amodeo A**, Cogo P, Secinaro A, Bizzari C, Guttrera R, El Hachem M, Francalanci P. Heart transplant and 2-year follow up in a child with generalized arterial calcification of infancy. *Eur J Pediatr*. 2014 Nov 1.
- 66) Iodice F, Testa G, Averardi M, Brancaccio G, **Amodeo A**, Cogo P. Implantation of a left ventricular assist device as a destination therapy in Duchenne muscular dystrophy patients with end stage cardiac failure: Management and lessons learned.*Neuromuscul Disord*. 2015 Jan;25(1):19-23.
- 67) Di Molfetta A, Pilati M, Gagliardi MG, Fresiello L, **Amodeo A**, Cristofaletti A, Pongiglione G, Ferrari G. Tailoring the hybrid palliation for hypoplastic left heart syndrome: A simulation study using a lumped parameter model. *Med Eng Phys*. 2015 Sep;37(9):898-904.
- 68) Di Molfetta A, **Amodeo A**, Fresiello L, Trivella MG, Iacobelli R, Pilati M, Ferrari G. Simulation of Ventricular, Cavo-Pulmonary, and Biventricular Ventricular Assist Devices in Failing Fontan. *Artif Organs*. 2015 Jul;39(7):550-8.
- 69) Gandolfo F, Brancaccio G, Donatiello S, Filippelli S, Perri G, Iannace E, D'amario D, Testa G, Grigioni M, **Amodeo A**. Mechanically Assisted Total Cavopulmonary Connection With An Axial Flow Pump: Computational And In Vivo Study. In press on *Artif Organs*
- 70) Arianna Di Molfetta, Gianfranco Ferrari, S. Filippelli, and **Antonio Amodeo**. The use of VAD in univentricular physiology: the role of numerical models. In press on *Artif Organs*
- 71) Arianna Di Molfetta, **Antonio Amodeo**, Maria G. Gagliardi, Maria G. Trivella, Libera Fresiello, Sergio Filippelli,

- Alessandra Toscano, and Gianfranco Ferrari. Hemodynamic Effects of Ventricular Assist Device Implantation on Norwood, Glenn, and Fontan Circulation: A Simulation Study. In press on *Artif Organs*
- 72) A. Di Molfetta, G. Ferrari, R. Iacobelli, S. Filippelli, L. Fresiello, M.G.Gagliardi, A. Toscano, M. G. Trivella and **A. Amodeo**. Simulation of acute haemodynamic outcomes of the surgical strategies for the right ventricular failure treatment in pediatric LVAD. In press on *IJAO*
 - 73) A. Di Molfetta, S. Filippelli, G. Ferrari, A. Secinaro, K. Zielinski, **A. Amodeo**. Berlin Heart EXCOR VAD: Multilayer Membrane rupture in a pediatric patient. *Ann Thorac Surg*. 2016 Aug;102(2):e129-30.
 - 74) Drago F, Pazzano V, Di Mambro C, Russo MS, Palmieri R, Silveti MS, Giannico S, Leonardi B, **Amodeo A**, Di Ciommo VM: Role of right ventricular three-dimensional electroanatomic voltage mapping for arrhythmic risk stratification of patients with corrected tetralogy of Fallot or other congenital heart disease involving the right ventricular outflow tract. *Int J Cardiol*. 2016 Nov 1;222:422-9.
 - 75) Falzarano MS, D'Amario D, Siracusano A, Massetti M, **Amodeo A**, La Neve F, Maroni CR, Mercuri E, Osman H, Scotton C, Armaroli A, Rossi R, Selvatici R, Crea F, Ferlini A. DMD myogenic cells from urine-derived stem cells recapitulate the dystrophin genotype and phenotype. *Hum Gene Ther*. 2016 Aug 16
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 - 77) Di Nardo M, MacLaren G, Marano M, Cecchetti C, Bernaschi P, **Amodeo A** : ECLS in Pediatric Cardiac Patients. *Front Pediatr*. 2016 Oct 7;4:109.
 - 78) Di Molfetta A, Gandolfo F, Filippelli S, Perri G, Di Chiara L, Iacobelli R, Adorisio R, Favia I, Rizza A, Testa G, Di Nardo M, **Amodeo A**. The Use of Berlin Heart EXCOR VAD in Children Less than 10 kg: A Single Center Experience. *Front Physiol*. 2016 Dec 6;7:614
 - 79) Di Molfetta A, Ferrari G, Iacobelli R, Filippelli S, **Amodeo A**. Concurrent use of continuous and pulsatile flow Ventricular Assist Device on a fontan patient: A simulation study. *Artif Organs*. 2017 Jan;41(1):32-39.
 - 80) De Rita F, Griselli M, Sandica E, Miera O, Karimova A, d'Udekem Y, Goldwasser R, Januszewska K, **Amodeo A**, Jurmann N, Ersel S, Menon AK. Closing the gap in paediatric ventricular assist device therapy with the Berlin Heart EXCOR® 15-ml pump†. *Interact Cardiovasc Thorac Surg*. 2017 Jan 23. pii: iwv437. doi: 10.1093/icvts/iwv437.
 - 81) Application of a Lumped Parameter Model to Study the Feasibility of Simultaneous Implantation of a Continuous Flow Ventricular Assist Device (VAD) and a Pulsatile Flow VAD in BIVAD Patients. Di Molfetta A, Ferrari G, Iacobelli R, Filippelli S, Fresiello L, Guccione P, Toscano A, **Amodeo A**. *Artif Organs*. 2017 Mar;41(3):242-252.
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 - 83) Dystrophin Cardiomyopathies: Clinical Management, Molecular Pathogenesis and Evolution towards Precision Medicine. D'Amario D, Gowran A, Canonico F, Castiglioni E, Rovina D, Santoro R, Spinelli P, Adorisio R, **Amodeo A**, Perrucci GL, Borovac JA, Pompilio G, Crea F. *J Clin Med*. 2018 Sep 19;7(9). pii: E291.
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- 94) Evolution of Ventricular Energetics in the Different Stages of Palliation of Hypoplastic Left Heart Syndrome: A Retrospective Clinical Study. Di Molfetta A, Iacobelli R, Guccione P, Di Chiara L, Rocchi M, Cobiانchi Belisari F, Campanale M, Gagliardi MG, Filippelli S, Ferrari G, **Amodeo A**. *Pediatr Cardiol.* 2017 Dec;38(8):1613-1619.
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- 102) Heart rate reduction strategy using ivabradine in end-stage Duchenne cardiomyopathy. Adorasio R, Calvieri C, Cantarutti N, D'Amico A, Catteruccia M, Bertini E, Baban A, Filippelli S, Perri G, Amodeo A, Drago F. Int J Cardiol. 2019 Apr 1;280:99-
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- 105) Principlism and Personalism. Comparing Two Ethical Models Applied Clinically in Neonates Undergoing Extracorporeal Membrane Oxygenation Support. Di Nardo M, Dalle Ore A, Testa G, Annich G, Piervincenzi E, Zampini G, Bottari G, Cecchetti C, Amodeo A, Lorusso R, Del Sorbo L, Kirsch R. Front Pediatr. 2019 Jul 30;7:312.
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- 107) Part VII: Behavioral economics-A framework for donor organ decision-making in pediatric heart transplantation. Butler A, Chapman G, Johnson JN, Amodeo A, Böhmer J, Camino M, Davies RR, Dipchand AI, Godown J, Miera O, Pérez-Blanco A, Rosenthal DN, Zangwill S, Kirk R. Pediatr Transplant. 2020 Jan 27:e13655

RELAZIONI A CONGRESSI E CONFERENZE (Ultimi 4 anni)

- 1) UILDM, Patologie Neuromuscolari in Età Pediatrica, 24 Gennaio 2015, Roma: Gestione e Cura della Cardiopatia nella Distrofia Muscolare di Duchenne
- 2) Fondazione Mariani, XXVII Corso di aggiornamento Nuovi concetti di malattie neuromuscolari in età pediatrica Hotel Boscolo Exedra, Roma 12-14 marzo 2015: Nuove prospettive cardiologiche
- 3) XII Congress of Mediterranean Society of Myology Naples, 18-20 May 2015: New therapeutic options in the end stage heart failure Duchenne Muscular Dystrophy
- 4) 11th International Conference Pediatric MCS Systems and Pediatric Cardiopulmonary Perfusion, June 10 - 13, 2015 Verona, Italy: The Jarvik VAD in Duchenne Children as Destination Therapy: the Rome Experience
- 5) Attualità nei Cardiopatici Congeniti Adulti, Policlinico San Donato, 12/6/2015: Trapianto/VAD in Fontan dal 12-06-2015 al 12-06-2015
- 6) 51° Annual Meeting of Japanese Society of Pediatric Cardiology and Cardiac Surgery, July 16-18, 2015, Tokio: EXCORÒ pediatric VAD Therapy: from candidacy to transplantation
- 7) XLII ANNUAL ESAO CONFERENCE 2-5 SEPTEMBER, 2015, LEUVEN, BELGIUM: Learning from the past, working in the present, designing for the future.

- 8) 49° CONVEGNO CARDIOLOGIA MILANO 21-24 SETTEMBRE: VAD Di Lungo Periodo: Le Sfide Del Paziente Pediatrico
- 9) Visiting Professor, Children's Hospital Boston, Harvard Medical School Professorship Lecture at Boston Children's Hospital: LVAD in Dystrophinopathies End-Stage Cardiomyopathy : Can We Alter The Natural History Of The Disease?
- 10) IMAC 2016 Italian Meeting on Adult with Congenital Heart Disease. Venerdì 1 Aprile 2016, Aula Magna Irccs Policlinico San Donato
- 11) 12th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion, 18-21 May, Columbia University, New York, USA 2016 : Current Pediatric Mechanical Support: Berlin Heart/Centrimag.
- 12) International Pediatric VAD Summit, Children's Hospital Boston, Harvard Medical School Lecture, October 20-21, 2016: A Bridge of Hope- DT Experience from Bambino Gesù Hospital
- 13) Pediatric Heart Book, Taormina 29 Ottobre 2016: Assistenza meccanica cardiorespiratoria
- 14) 11th European Mechanical Circulatory Support Summit in Berlin, EACTS Academy Programme Lecture: Ventricular assist device in congenital heart disease
- 15) Techno College Organization Congresso della SICCH 2016, 25 novembre, 2016
- 16) II CURSO DE ACTUALIZACION EN CARDIOLOGIA PEDIATRICA ENFOCADO AL CARDIOLOGO CLINICO INSUFICIENCIA CARDIACA 10/2/1017, HOSPITAL UNIVERSITARIO 12 DE OCTUBRE, MADRID: Ventricular Assist Devices as bridge to heart transplantation or as destination therapy in pediatric patients
- 17) INTERNATIONAL SOCIETY FOR HEART AND LUNG TRANSPLANTATION, Annual Meeting, San Diego, 2017: Mechanical Circulatory Support in Muscular Dystrophy Cardiomyopathy
- 18) INTERNATIONAL SOCIETY FOR HEART AND LUNG TRANSPLANTATION, Annual Meeting, San Diego, 2017, ISHLT Academies: VAD implantation (intracorporeal HVAD, HeartMate, Jarvik): Key surgical aspects Key surgical techniques to implanting continuous flow devices in children
- 19) Congenital Heart Book 28 – 29 April 2017: MCS and HEART TRANSPLANT
- 20) ECHSA Meeting, Leicester, 2017: Recent Advances with Unconventional ECMO
- 21) New Horizon in Heart Care, Bologna, 2017: How to set up a MCS outpatient clinic in a pediatric population
- 22) 47 Congresso Della Società Italiana di Cardiologia Pediatrica, Torino, 2017 Ventricolo unico e Fontan: un matrimonio sempre felice?
- 23) Simposio DE INSUFICIENCIA PEDIATRICA, HOSPITAL UNIVERSITARIO VALL D'HEBRON, BARCELONA, 08/2/2018: Experiencia de Bambino Gesù en asistencia ventricular pediátrica
- 24) Saudi Heart Association Meeting, Riyadh, Saudi Arabia 01-03 March 2018: Mechanical Circulatory Support in Pediatrics: Present, Past and Future
- 25) Advances in Pediatric Heart Failure March 15-17, 2018, Florence, Mechanical circulatory support: bridge to HT or to recovery?
- 26) 14th UCCVS Congress, Antalya, Turkey, 6 April, 2018: Mechanical Ventricular Support in Kids: Where Are We in 2018
- 27) EuroElso, 23-26, 2018, May Prague: Neonatal and Pediatric VAD including TAH State of the Heart

- 28) ICB Seminar 21 – 23 May, 2018, Warsaw: Mechanical Circulatory Support in Pediatrics: Present, Past and Future
- 29) ECHSA Meeting , 31 May-2 June 2018,Cascais: New devices... and a glimpse into the future
- 30) ASAIO 64th Meeting 13-16 June ,2018 , Washington: From Micro to Macro Advanced in Artificial Cardiac Support
- 31) International Pediatric VAD and Heart Failure Summit , September 24–25, 2018 Stanford, CA: The Infant Jarvik 2015: Case Presentation
- 32) CSTCVS 12-14 October , 2018, Shenyang, China.: Pediatric Heart Trasplantation
- 33) 32nd EACTS Meeting,18-20 October, Milan: State of the heart in Pediatric ECMO/ECLS
- 34) 26th Annual Meeting ISMCS, October 31-November3, Tokyo: Pedatric Ventricular Assist Device
- 35) 26th Annual Meeting ISMCS, October 31-November3, Tokyo: Mechanical Circulatory Support in pediatric “low weight” patients
- 36) EACTS Academy,13-16 November, 2018, Windsor: Heart Failure in CHD: HTX & MCS
- 37) ISHLT 39th Meeting 3-6 April, 2018, Orlando: One size fits all? Strategies for using implantable VADs in small patients
- 38) CONGRESSO CARDIOLOGIA PEDIATRICA Sala dei Notari | Perugia 11/13 Aprile 2019: Terapie avanzate dello scompenso cardiaco nel cardiopatico congenito adulto
- 39) 53 Annual Meeting AEPC, 15-18 May, Seville,Spain: Advance Support to the failing Fontan
- 40) Congenital Heart Campus, 22-26 May, 2019, Ortigia: Fluid Dynamics in Complex Congenital Cardiac Surgery
- 41) Congenital Heart Campus, 22-26 May, 2019, Ortigia: ABO Incompatible Organs and Other New Surgical Strategies –

RESPONSABILE DI STUDI E RICERCHE SCIENTIFICHE

- 1) 1998 – 1999 Direttore per il Ministero della Salute Italiano del progetto :
“ New Hydrodynamic model for Fontan circulation in Univentricular Hearts”.
- 2) 2010/2011 - Direttore per il Ministero della Salute Italiano del progetto: “Permanent artificial heart in congenital heart disease with end-stage heart failure
- 3) P.I.del Progetto: Gene therapy in Duchenne Cardiomyopathies:Target resident cardiac stem cells as a tool for the treatment of heart failure Istituto di Ricerca a Carattere Scientifico Ospedale Pediatrico Bambino Gesù from 01-01-2015 until now
- 4) P.I. del Progetto : European Infant Jarvik 2015 study Istituto di Ricerca a Carattere Scientifico Ospedale Pediatrico Bambino Gesù, from 01-11-2016 until now
- 5) 2015-2018 - Direttore per il Ministero della Salute Italiano del progetto:
Cardiac regeneration: Characterization, optimization and evaluation of force developed by engineered tissue obtained from spontaneous or scaffold based 3D culture of paediatric human adipose tissue-derived

mesenchymal stem cells

- 6) Direttore e responsabile del programma di Chirurgia e Ricerca per Infant Jarvik Implantation, Sperimental Surgery Laboratory, Duke University Medical Center, in collaborazione con "Pumpkin (Pump for Kids and Infants) Program of NHLBI and New England Research Institute on development of Infant Jarvik" dal 11-06-2014

COORDINAMENTO O PARTECIPAZIONE IN GRUPPI DI RICERCA CARATTERIZZATI DA COLLABORAZIONI NAZIONALI/INTERNAZIONALI

- 1) Supervisory Board MeDDICA (Medical Devices Design in Cardiovascular Applications), Project, Marie Curie Initial Training Networks Seventh Framework Programme (FP7)) European Community (Call: FP7-PEOPLE-ITN-2008)
- 2) Collaborazione con l' Istituto Superiore di Sanità nel progetto: New model of total cavo-pulmonary connection. from dal 01-01-2000 until now
- 3) Membro di Advisory Board di RASAD: International Advisory Board for Epidemiological Studies. Qatar Science and Technology Park. from 19-10-2011 until now
- 4) Collaborazione con l'Università Cattolica del Sacro Cuore, Roma nel progetto: Stem cell therapy in cardiac end stage dystrophinopathies. from 01-01-2014 until now
- 5) Direttore Chirurgico e Di Ricerca Clinica sull' Infant Jarvik Implantation, Sperimental Surgery Laboratory, Duke University Medical Center, in collaborazione con Pumpkin (Pump for Kids and Infants) Program di NHLBI and New England Research Institute on development of Infant Jarvik. Dal 11-06-2014
- 6) Collaborazione con il Centro Nazionale di Ricerca di Pisa nel progetto:
 - a. "MiRNA, Biomarcatori issutali ed umorali dello scompenso cardiaco pediatrico in pazienti con assistenza meccanica cardiocircolatoria"
 - b. Sviluppo di un modello a parametri concentrati per la simulazione dei vad in cardiopatie congenite 2016-to now
- 7) Vice Presidente del European EXCOR® Pediatric Investigator Group (EPIG)
- 8) Partecipazione ed avvio del "EPIG Thromboembolic Risk Study (TRIS) - Protocol for Pediatric Excor Vad" dal 01-01-2016
- 9) Collaborazione con il Texas Children Hospital, Houston nel progetto: Experimental study on the unloading the systemic ventricle on ECMO: In vivo and numerical simulation study
- 10) Partecipazione ad Euromacs (European Registry on VAD): dal 01-10-2016

MAGGIORI CONTRIBUTI SCIENTIFICI:

- 1) Primo impianto nel mondo del più piccolo Cuore Artificiale (Infant Jarvik 2000 e 2015)
- 2) Primo impianto nel mondo di LVAD come Destination Therapy nella popolazione pediatrica
- 3) Primo impianto nel mondo di LVAD- nuova generazione (Heart Mate III) nella popolazione pediatrica
- 4) Primo impianto nel mondo di Total Artificial Heart 50 cc nel più piccolo paziente pediatrico
- 5) Primo impianto nel mondo di Impella via carotidea nella popolazione pediatrica

- 6) Sviluppo di nuove strategie chirurgiche nella Heterotaxy syndrome

POSIZIONE ACCADEMICA:

- 1) 2006 – 2008 – Professore in Cardiochirurgia Pediatrica presso l'Università di Tor Vergata, Roma
- 2) Dal 2013 Professore a contratto di Cardiochirurgia Pediatrica presso l'Università Cattolica del Sacro Cuore, Roma: Scuola di Specializzazione in Cardiochirurgia e Scuola di Insegnamento Tecnici di Fisiopatologia Cardiocircolatoria

ORGANIZZAZIONE CONGRESSUALE:

- 1) Scientific Committee, 7th World Congress Pediatric Cardiology and Cardiac Surgery, Barcellona 2017
- 2) Co Chair 13th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, September 2017
- 3) Scientific Committee, 8th World Congress for Pediatric Cardiology and Cardiac Surgery, Washington 2021
- 4) Organizing committee First International symposium on GUCH, Catholic University of Sacred Heart, 16/5/2015, Roma
- 5) Organization Scientific Session: Vad in CHD XLII ANNUAL ESAO CONFERENCE 2-5 SEPTEMBER, 2015, LEUVEN, BELGIUM
- 6) 2nd International Symposium on Grown - Up Congenital Heart Disease. Rome, May 27th 2017

ATTIVITA' CLINICHE

Campi di Interesse:

Da oltre tre decenni chirurgo cardiovascolare e ricercatore, con particolare interesse per le Cardiopatie Congenite. Eseguiti migliaia di interventi cardiocirurgici, tra cui, oltre alle cardiopatie congenite, anche trapianti cardiaci, assistenze ventricolari sinistre e cuori artificiali totali; contributo e peculiare interesse per lo sviluppo di tecniche innovative e per l'ottimizzazione della qualità di cure e della gestione chirurgica.

Ruoli attuali:

- Responsabile e fondatore del programma di VAD come destination therapy nella cardiomiopatia di Duchenne;
- Direttore e Fondatore del Programma di Assistenze Cardiocircolatorie Meccaniche presso l'Ospedale Bambino Gesù;
- Responsabile e Fondatore del Programma di Cardiopatie Congenite dell'Adulto presso l'Università Cattolica del Sacro Cuore di Roma.

Il/La Sottoscritto/a, ai sensi degli artt. 46 e 47 D.P.R. n. 445/2000, consapevole delle sanzioni penali previste dall'art. 76 D.P.R. n. 445/2000 nel caso di mendaci dichiarazioni, falsità negli atti, uso o esibizione di atti falsi o contenenti dati non più corrispondenti a verità, dichiara che quanto sopra riportato corrisponde a verità.

Dichiaro inoltre che i titoli e gli allegati sono, su richiesta, disponibili in copia fotostatica conforme agli originali.

Autorizzo il trattamento dei miei dati personali ai sensi del Dlgs 196 del 30 giugno 2003"

Roma, 11 Febbraio 2020

Prof. Antonio Amodeo

