

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome BUTERA GIANFRANCO

ESPERIENZA LAVORATIVA

Dal 1/1/2021

Chair of AOUC Interventional Congenital Cardiology

Ospedale Pediatrico Bambin Gesù – Roma – Italy

Da 1/11/2020

Honorary Consultant Pediatric Cardiologist

St Thomas's-Evelina Hospital London

Department of Congenital heart disease in children and adults

St Thomas/Evelina Hospital

Dal 01/11/2018 a 1/11/2020

Head Interventional Congenital Cardiology

Consultant Pediatric Cardiologist

St Thomas's-Evelina Hospital London

Department of Congenital heart disease in children and adults

St Thomas/Evelina Hospital

Westminster Bridge road

London - UK

Senior Lecturer Kings College University

London- UK

Dall'1/1/2000 al 31/10/2018

Consultant in Paediatric Cardiology,

Paediatric Cardiology Department, Istituto Policlinico San Donato

Piazza Edmondo Malan,2

20097 San Donato Milanese, Milano

Daily activity in catheterization laboratory.

Universita' degli studi di Milano, Centro "E. Malan"

Dal 1997 al 1998

Specialist Registrar

Catheterization laboratory, Pediatric Cardiology Unit
Necker/Enfants Malades Hospital in Paris

Dal 1996 al 1997

Clinical fellow

Pediatric Rythmology and electrophysiology,
Pediatric Cardiology Unit
Necker/Enfants Malades Hospital in Paris

Dal 1993 al 1996

Specialist Registrar

Pediatric Unit
"A.Gemelli-Hospital" in Roma.

Teaching activities

Senior Lecturer Kings College University

London- UK

Teacher in the II level Master in interventional cardiology

Varese University 2011

Teaching courses during workshops,meeting and congresses (see below)

Teaching course for students in Medicine in the Service de Cardiologie pediatrique de l'Hopital Necker Enfants Malades Université René Descartes- Hopital Necker Enfants Malades (Nov 98-Feb 99, Mar 99-Jun 99, Jul 99-Oct 99).

Teaching course for doctors in training in the Service de Cardiologie pediatrique de l'Hopital Necker Enfants Malades (Nov 98-Apr 99 and May 99-Oct 99).

Scientific publications

Chapter in books: 22

Principal Editor Books: 7

Papers: 224 (H-index: 37)

PRINCIPAL EDITOR BOOKS

1) Editors: **Butera G**, Schievano S, Bilgino G, McHelleiney D –
Modelling Congenital heart disease: engineering a patient centred therapy
– Springer Verlag Italia 2020 – In Printing

2) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. Cardiac
Catheterization for congenital heart disease: from fetal life to adulthood. –

- Springer Verlag China 2016 – Xianbing Pan (Ed China) **Chinese Editon**
- 3) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. ATLAS of Cardiac Catheterization for congenital heart disease- Springer Nature publishing 2019 – ISBN 978-3-319-72442-3
<https://doi.org/10.1007/978-3-319-72443-0>
- 4) Editors: **Butera G**, Cheatham J, Pedra C, Schranz D, Tulzer G - Fetal and hybrid procedures in congenital heart diseases. – Springer Verlag Italia 2016
- 5) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer Verlag Italia 2015
 ISBN: 978-88-470-5681-7 DOI: 10.1007/978-88-470-5681-7
- 6) Editors: **Butera G**, Cheatham J, Pedra C, Schranz D, Tulzer G - Fetal and hybrid procedures in congenital heart diseases. – Springer Verlag China 2019 – Xianbing Pan (Ed China) **Chinese Editon**
- 7) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer-Nature 2020 – Second Edition – In Printing

Roles within Scientific Societies

Member of the directive council of the Italian Society of Paediatric Cardiology. 2007-2009 (www.sicped.org)

President of the Working Group of interventional Cardiology of the European Association of Pediatric Cardiology 2011-2014 (www.aepc.org - working group interventional cardiology)

Past-President of the Working Group of interventional Cardiology of the European Association of Pediatric Cardiology 2014-2016 (www.aepc.org - working group interventional cardiology)

Board member PICS Society – Early career committee since 2019

Other affiliations and activities (Humanitarian Activities)

Associazione Bambini Cardiopatici nel mondo: Member from 2005.
 Activities of support, teaching, echocardiographic and clinical evaluations, invasive procedures, interventions in developing countries. In particular I'm involved in development of pediatric cardiology in Camerun, Perou, Azerbaijan, Tunisia, Kurdistan, Albania. Please check the web site:
www.bambinicardiopatici.it.
 I'm involved in a mean of 4 missions/year in these countries.
 In the last three years I have been involved in the Camerun project as Scientific Director
In Camerun we have opened a full equiped cardiac centre with 2 operating theathres, one flat panel catheterization laboratory, 12 ICU beds, 45 ward beds. The population served by this centre is around 200.000.0000 (sub-sharian Africa) (www.shisonghospital.org)

Cuore Fratello Member from 2006
 Member of the Council. Activities of cultural support, teaching, coordinations of volenteers working with children with congenital heart disease. Medical screening of micro-projects.

Other titles or activities- PI in trials

Consultant in COMET (Center for Overview, Meta-analysis and evidence-based medicine training)

Inventor. Patent:No. 08425200.6-1257. Date of filling: 27/3/2008 Title: Valve prosthesis for implantation in body channels. European Patent Office.

Principal Investigator of the Italian Registry on PFO Closure (IPOS) under the endorsement of GISE

Principal investigator of the Italian Registry of Melody Valve implantation under the endorsement of SICP

Proctor and scientific advisor for companies AGA, St Jude, Abbott, Gore, Boston Scientific

Invited Consultant to perform procedures in various centers in Italy and Worldwide: Lima, Gran Canaria, London, Bordeaux, Athens, Istanbul, Beirut, Torino, Modena, Brescia, Monza, Catanzaro, Cosenza, Lecce, Trieste.

Principal Investigator Italia studio Advanta – Stent – Multicentric International study

Principal investigator Italy: Closure of patent foramen ovale using Gore Cardioform septal occluder: results from a prospective european multi center study

Principal Investigator Covered versus bare stent in transcatheter treatment of aortic coarctation from the Congenital Cardiovascular Interventional Study Consortium (CCISC) – CCISC is a collaborative effort including 70 centers mostly based in the United States

Scientific Advisor of the technical Committee - Cardiac Centre – Shisong Camerun – University of Bamenda -

Editor

- Editor Case Reports Cardiology in the Young
- Associate Editor Congenital Heart Disease section congenital interventional cardiology
- Advisory Editorial Board Pediatric Cardiology

Official Rewiever

Cardiology in the Young
Pediatric Cardiology
American Journal of Cardiology
Anatolian Journal of Cardiology
Interventional Cardiology- Futura Publishing
Heart and Vessel Journal
Journal of Cardiovascular Medicine
Circulation
Annals of Internal Medicine
Chest
Cardiovascular Journal of Africa

European Journal of echocardiography
Clinical Medicine: Circulatory, Respiratory and Pulmonary Medicine
Saudi Medical Journal
European Heart Journal
Cardiovascular and Interventional Radiology
J Cardiovasc Ultrasound
Catheterization Cardiovascular Intervention
Heart
Reviewer for Springer, SpringerOpen, BioMed Central Journals
Plos One

ADVISORY EDITORIAL BOARD

Pediatric Cardiology
Journal of Cardiology and therapy (ISSN 2309-6861)
La Pediatria Medica-Chirurgica
Pediatric and Neonatal care
Maedica, Journal of Clinical medicine
Brazilian Journal of Invasive Cardiology (ISSN 2179-8397)

ISTRUZIONE E FORMAZIONE

ABILITAZIONE SCIENTIFICA NAZIONALE

BANDO 2013 (DD 161/2013)

Il Candidato supera tutte e tre le mediane di riferimento dei 3 indicatori di valutazione della produzione scientifica sulla base dei dati riportati sul sito <https://abilitazione.cineca.it/commissario.php/home/elencodomande/fascia/2>. Per quanto riguarda i titoli presentati, secondo i criteri deliberati dalla Commissione, nella riunione

preliminare e successivamente resi pubblici, si evidenzia quanto segue:

La produzione scientifica è coerente con i temi del settore concorsuale e si esplica in particolare nell'ambito della cardiologia interventistica per la riparazione dei difetti congeniti.

Il Candidato occupa spesso una posizione di primo autore da cui si evince una chiara responsabilità nell'ambito della ricerca.

La collocazione editoriale dei prodotti presentati è buona.

L'impatto delle pubblicazioni all'interno del settore è buono.

Sulla base della valutazione complessiva di tutti gli elementi considerati, come risulta dai voti espressi nel verbale della riunione odierna, la Commissione delibera all'unanimità che il profilo scientifico del Candidato è compatibile con la maturità scientifica (II fascia) e quindi risulta idoneo al conseguimento dell'abilitazione nazionale come Professore di Seconda Fascia nel **Settore Concorsuale 06/D1 (MALATTIE DELL'APPARATO CARDIOVASCOLARE E DELL'APPARATO RESPIRATORIO)**

2010-2015

Diploma di Specializzazione in Malattie dell'apparato

Cardiovascolare, 70/70

cum laude, Medical school of Varese – Insubria University (Italy).

(Postgraduate school of Cardiology. Full marks and honours.).

2014-2015

Global Clinical Scholars Research Program

Epidemiology Concentration

Harvard Medical School

Boston

1997- 2000

PhD in Pediatric and fetal cardiology

Medical school of Catholic University of Roma (Italy).

1996 - 1997

Diplome Universitaire de Cardiologie Pediatrique

Université René Descartes, Paris V

(Postgraduate school of Pediatric Cardiology)

1993 – 1997

Diploma di Specializzazione in Pediatria, 50/50 cum laude

Medical school of Catholic University of Rome (Italy).

(Postgraduate school of Pediatric. Full marks and honours.).

1987 - 1993

Laurea in Medicina, 110/110 cum laude.

Medical school of Catholic University of Rome (Italy).

(Degree in Medecine Full marks and honours).

POST-GRADUATE TRAINING

10/1996 - 11/1998

Training in Pediatric Cardiology, Pediatric cardiac catheterization, pediatric rhythmology and electrophysiology

“Hopital Necker/Enfants Malades” in Paris

France. Head of Department Prof. J. Kachaner

09/1993 – 07/1996

Traininig in General Pediatric

“A.Gemelli-Hospital” in Roma-Italy. Head of

Department Prof G. Segni

VISITING PROFESSORSHIP and ALUMNI ASSOCIATIONS

University of Cincinnati –15th February 2020

University of Bordeaux – CHU Hopitaux de Bordeaux – Service des Maladies Cardiovasculaires Congenitales - 12 th January 2016

Harvard Medical School – Boston Children ‘s Hospital - Department of Cardiology – 30th novemberr to 11th december 2015

**Associate member Harvard Medical Alumni Association (HMAA)
since june 2015**

**Associate member Harvard Alumni Association (HAA) since june
2015**

COMPETENZE LINGUISTICHE

MADRELINGUA

ITALIANA

ALTRE LINGUE

INGLESE

- | | |
|---------------------------------|-------------------|
| • Capacità di lettura | Eccellente |
| • Capacità di scrittura | Eccellente |
| • Capacità di espressione orale | Eccellente |

FRANCESE

- | | |
|-------------------------------|-------------------|
| Capacità di lettura | Eccellente |
| Capacità di scrittura | Eccellente |
| Capacità di espressione orale | Eccellente |

SPAGNOLO

- | | |
|-------------------------------|---------------------|
| Capacità di lettura | Livello base |
| Capacità di scrittura | Livello base |
| Capacità di espressione orale | Livello base |

Participation in Courses and congress

Scientific Course director

AEPC advanced Course on cardiac catheterization and Interventions
2013-2015-2017-2019

Scientific Course co-director

6th AEPC Junior training course on cardiac catheterization and
interventions - Rotterdam – Holland - 17-19 march 2016

Scientific Course director

5th AEPC Junior training course on cardiac catheterization and
interventions - Linz- Austria- 13-15 march 2014

Scientific Course director

4th AEPC Junior training course on cardiac catheterization and
interventions - Barcellona – Spain 23-24 March 2012

**Scientific advisory Board 15th,16th,17th,18th, 19th,20th World
Congress on heart disease (www.cardiologyonline.com)**

**Course co-director of 5th, 6th, 7th,8th, 9th,10th International
Workshop on Interventional Pediatric Cardiology.
(www.workshopIPC.com)**

1996-2015: 228 (as invited person: **moderator; Chairman; invited
speaker**)

1996-2015: 285 (as accepted **presenter of peer-reviewed researches**)

Invited faculty member in 122 national and international congress

Scientific publications

**Abstracts in meetings: 391 (Oral communications: 111; Posters:
280)**

Chapter in books: 22

Principal Editor Books: 7

Papers: 224 (H-index: 37)

Chapters in Book

**1) Post-myocardial Infarction VSD – Butera G, F D’Aiello, M
Carminati**

In Print

**2) Interventions on right ventricular outflow tract - Pediatric Cardiology,
Cardiac Surgery and Intensive Care. Authors: Gianfranco Butera,
Alessandra Frigiola, Philipp Bonhoeffer.**

Editors: Eduardo M. da Cruz, D. Dunbar Ivy, Viktor Hraska, James Jagger. Publisher: Springer. **2015**

3) Percutaneous Interventional cardiovascular medicine – PCR-EAPCI Textbook

Editors Eeckhout E, Serruys PW, Wijns W, Vahanian A, Van Sambeek M, De Palma R. PCR Publishing 2016 – **Butera G**, et al. Ventricular Septal Defect closure

In printing

4) Chapter 39: Butera G et al . RV-to-PA hybrid conduit – Other Hybrid procedures – In: Fetal and hybrid procedures in congenital heart diseases. – Editors: **Butera G, Cheatham J, Pedra C, Schranz D, Tulzer G - Springer Verlag Italia 2016 – In print**

5) Chapter 32: **Butera G et al .Literature and Results – Ventricular septal defect – In: Fetal and hybrid procedures in congenital heart diseases.**

Editors: Butera G, Cheatham J, Pedra C, Schranz D, Tulzer G - Springer Verlag Italia 2016

In print

6) Capitolo 3 : Trattamento Interventistico della cardiopatie congenite – **Butera G, Santoro T, Chessa M, Carminati M. In : Marino B, Milanese O, Formigari R, Santoro R (Eds) – 2016**

In print

7) Chapter 28 . Section VI- Step-by-step: closing or creating defects. Ventricular Septal Defects. Chessa Massimo, **Butera Gianfranco – Authors: Chessa M, Butera G– Editors: Butera G, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer Verlag Italia 2015**

ISBN: 978-88-470-5681-7 DOI: 10.1007/978-88-470-5681-7

8) Chapter 36. Section VII Step-by-step Procedures: Valve Implantation. Melody Valve Implantation in Pulmonary Position –Authors: **Butera G, Chessa M, Bonhoeffer P. Editors: Butera G, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer Verlag Italia 2015**

ISBN: 978-88-470-5681-7 DOI: 10.1007/978-88-470-5681-7

9) Transcatheter treatment of tricuspid valve – M Chessa, L Giugno, **G Butera, M Carminati.- The tricuspid valve in congenital heart disease pg 185-195– Editors Massimo Chessa, Alessandro Giamberti- Springer – Verlag Italia 2014- ISBN 978-88-470-5399-1 DOI 10.1007/978-88-470-5400-4**

10) Transcatheter closure of membranous ventricular septal defects – Old problems and new solutions - **Gianfranco Butera, Luciane Piazza, Antonio Sarcino, Massimo Chessa, Mario Carminati – Interventional Cardiology Clinics – Congenital and Structural heart disease – Volume 2, Number 1 - Eds: Kenny D, Hijazi ZM – Publisher Elsevier Inc 2013 – pg 85-92**

ISBN 13: 978-1-4557-7108-0 ISSN 2211-7458

11) Percutaneous Interventional cardiovascular medicine – PCR-EAPCI Textbook Editors Eeckhout E, Serruys PW, Wijns W, Vahanian A, Van Sambeek M, De Palma R. PCR Publishing 2012 – **Butera G, et al. Ventricular Septal Defect closure pg 183-202**

ISBN : 978-2-913628-64-9

12) Percutaneous Interventional cardiovascular medicine – PCR-EAPCI Textbook

Editors Eeckhout E, Serruys PW, Wijns W, Vahanian A, Van Sambeek M, De Palma R. PCR Publishing 2012 – Chessa M, Castaldi B, **Butera G**, et al. Patent ductus arteriosus closure pg 203-214

ISBN : 978-2-913628-64-9

13) Other transcatheter procedures. M Chessa, **Butera G**. In The right ventricle in adults with tetralogy of Fallot. Eds Chessa, Giamberti. Springer Verlag Italia 2012- pg 133-145.

ISBN 978-88-470-2357-4 DOI 10.1007/978-88-470-2358-1

14) Transcatheter treatment in children and adults with congenital heart disease – Butera G et al- In: New insights in pediatric cardiology: from basic to therapeutics.pg 153-187 - 2012

Eds Santoro G, Pacileo G, Russo MG (Eds) – Bentham Science Publishers

15) Capitolo 8. Cardiologia Pediatrica. Manuale di Pediatria – La pratica clinica- Eds Zuccotti, Giovannini. Società Editrice Esculapio Italia – 2012. Pg 224-234

ISBN 978-88-7488-485-8

16) M Carminati, D Negura , Piazza L, Chessa M, Butera G, Feneck R. Adult congenital heart disease. TEE guidance of interventional catheter delivered devices. In: Core topics in Transesophageal echocardiography. Editors: Feneck R, KneeshawJ, Ranucci M. Cambridge University Press 2010. Pg 324-338. ISBN 978-0-521-73161-4

17) Complications during percutaneous interventions for congenital and structural heart disease. Eds Hijazi Z, Feldman T, Cheatham JP, Sievert H. Informa healthcare 2009, London, UK. Device closure of patent foramen ovale with the Cardia intrasept device. Chessa M, **Butera G**, Carminati M. Pgs 246-8.

ISBN-13 : 978-0-415-45107-9 ISBN-10 : 0-415-451907-8

18) M Carminati, M Chessa, G Butera, D Negura, L Piazza. Emodinamica interventistica in cardiologia pediatrica: ruolo dell'ecocardiografia nel monitoraggio periprocedurale e nella valutazione dei risultati.

Editor: GL Nicolosi, F Antonimi-Canterin, D Pavan, R Piazza. Manuale di Ecocardiografia Clinica. Vol 3. Capitolo Cardiopatie Congenite 36. pg1483-1493. 2008. Piccin Nuova Libreria Padova.

ISBN: 978-88-299-1923-9

19) Butera G. Parte 5 Cardiologia. Aritmie in età pediatrica. Pg 261-272. In Vademecum di diagnosi e terapia pediatrica.

Editor: Riccardo Riccardi. 2008. Margiacchi Galeno Editrice.

ISBN 978-88-86494-75-0

20) M Carminati, Chessa M, Butera G, Piazza L, Negura D. Atrial septal defect closure with Starflex device. In: Percutaneous intervention for congenital heart disease.

Editors: Sievert H, Qureshi SA, Wilson N, Hijazi ZM. Informa Healthcare London 2007; Charter 29: 277-283

ISBN 13:978-1-84182-556-2 ISBN 10: 1-84184-556-6

- 21) **Butera G**, Chessa M, Carminati M. Emodinamica interventistica. In: Come comportarsi con il bambino cardiopatico. Manuale per insegnanti delle scuole primaria e secondaria del ciclo. 2004. pag 47-53
- 22) Chapter 26. Section VI Step-by-step Procedures: Valve Implantation. Melody Valve Implantation in Pulmonary Position – Authors: **Butera G**, Chessa M, Bonhoeffer P. Editors: Butera G, Chessa M, Eicken A, Thomson J. ATLAS of Cardiac Catheterization for congenital heart disease- Springer Nature publishing 2019 –ISBN 978-3-319-72442-3
<https://doi.org/10.1007/978-3-319-72443-0>
- 22) Percutaneous Interventional cardiovascular medicine – PCR-EAPCI Textbook. Second Edition. Editors Eeckhout E, Serruys PW, Wijns W, Vahanian A, Van Sambeek M, De Palma R. PCR Publishing 2020 – Butera G, et al. Ventricular Septal Defect closure
- 23) 12) Percutaneous Interventional cardiovascular medicine – PCR-EAPCI Textbook Editors Eeckhout E, Serruys PW, Wijns W, Vahanian A, Van Sambeek M, De Palma R. PCR Publishing 2020 – Chessa M, D’Aiello F., Castaldi B, **Butera G**, et al. Patent ductus arteriosus closure

PRINCIPAL EDITOR BOOKS

- 1) Editors: **Butera G**, Schievano S, Bilgino G, McHelliney D – Modelling Congenital heart disease: engineering a patient centred therapy – Springer Verlag Italia 2020 – In Printing
- 2) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer Verlag China 2016 – Xianbing Pan (Ed China) **Chinese Editon**
- 3) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. ATLAS of Cardiac Catheterization for congenital heart disease- Springer Nature publishing 2019 –ISBN 978-3-319-72442-3
<https://doi.org/10.1007/978-3-319-72443-0>
- 4) Editors: **Butera G**, Cheatham J, Pedra C, Schranz D, Tulzer G - Fetal and hybrid procedures in congenital heart diseases. – Springer Verlag Italia 2016
- 5) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer Verlag Italia 2015
 ISBN: 978-88-470-5681-7 DOI: 10.1007/978-88-470-5681-7
- 6) Editors: **Butera G**, Cheatham J, Pedra C, Schranz D, Tulzer G - Fetal and hybrid procedures in congenital heart diseases. – Springer Verlag China 2019 – Xianbing Pan (Ed China) **Chinese Editon**
- 7) Editors: **Butera G**, Chessa M, Eicken A, Thomson J. Cardiac Catheterization for congenital heart disease: from fetal life to adulthood. – Springer-Nature 2020 – Second Edition – In Printing

Peer-reviewed papers

- 1) Al Balushi A, Pascall E, Jones MI, Qureshi S, **Butera G**
Initial experience with a novel ePTFE-covered balloon expandable stent in patients with near-atretic or severe aortic coarctation and small femoral arterial access. *Cardiol Young*. 2020 Nov 11:1-5. doi: 10.1017/S1047951120003728. Online ahead of print. PMID: 33172512
- 2) Heying R, Albert DC, Voges I, Sendzikaite S, Sarquella-Brugada G, Pluchinotta F, Brzezinska-Rajszyz G, Stein JJ, Milanese O; Contributors and reviewers of the AEPC council;; Contributors of the AEPC working groups (current chairs and representative members):. Association for European Paediatric and Congenital Cardiology recommendations for basic training in paediatric and congenital cardiology 2020. *Cardiol Young*. 2020 Oct 28:1-16. doi: 10.1017/S1047951120003455. Online ahead of print. PMID: 33109300
- 3) Giordano M, **Butera G**. Percutaneous closure of an aortopulmonary window in a young adult patient: a case report of transcatheter closure with an occluder device **Eur Heart J Case Rep**. 2020 Apr 4;4(3):1-4. doi: 10.1093/ehjcr/ytaa059. eCollection 2020 Jun.
- 4) Hansen JH, Duong P, Jivanji SGM, Jones M, Kabir S, **Butera G**, Qureshi SA, Rosenthal E. Transcatheter Correction of Superior Sinus Venosus Atrial Septal Defects as an Alternative to Surgical Treatment *J Am Coll Cardiol*. 2020 Mar 24;75(11):1266-1278. doi: 10.1016/j.jacc.2019.12.070.
- 5) Alban-Elouen Baruteau, Matthew I Jones, **Gianfranco Butera**, Shakeel A Qureshi, Eric Rosenthal · Transcatheter correction of sinus venosus atrial septal defect with partial anomalous pulmonary venous drainage: The procedure of choice in selected patients? *Arch Cardiovasc Dis*. 2020 Feb;113(2):92-95. doi: 10.1016/j.acvd.2019.09.014. Epub 2020 Feb 11.
- 6) Long Chen, Shengshou Hu, Zhiling Luo, **Gianfranco Butera**, Qiling Cao, Fengwen Zhang, Minjie Lu, Shouzheng Wang, Weiwei Wang, Xiangbin Pan. First-in-Human Experience With a Novel Fully Bioabsorbable Occluder for Ventricular Septal Defect *JACC Cardiovasc Interv*. 2020 May 11;13(9):1139-1141. doi: 10.1016/j.jcin.2019.09.057. Epub 2020 Jan 15.
- 7) **Gianfranco Butera**, Gianluca Lucchese, Conal Austin, Alessandra Frigiola. Hybrid trans-apical atrioventricular valve-in-valve implantation in Fontan circulation *Catheter Cardiovasc Interv*. 2020 Apr 1;95(5):950-953. doi: 10.1002/ccd.28714. Epub 2020 Jan 8.
- 8) **Butera G**, Mansour NB, De Marco F. Emergency trans-catheter coronary intervention for left main compression secondary to pulmonary hypertension in a 4-year-old child. *Catheter Cardiovasc Interv*. 2019 Jan 1;93(1):105-107. doi: 10.1002/ccd.27796.
- 9) McElhinney DB, Aboulhosn JA, Dvir D, Whisenant B, Zhang Y, Eicken A, Ribichini F, Tzifa A, Hainstock MR, Martin MH, Kornowski R, Schubert S, Latib A, Thomson JDR, Torres AJ, Meadows J, Delaney JW, Guerrero ME, Salizzoni S, El-Said H, Finkelstein A, George I, Gewillig M, Alvarez-Fuente M, Lamers L, Cheema AN, Kreutzer JN, Rudolph T, Hildick-Smith D, Cabalka AK, **Butera G**; VIVID Registry. Mid-Term Valve-Related Outcomes After Transcatheter Tricuspid

Valve-in-Valve or Valve-in-Ring Replacement. *J Am Coll Cardiol*. 2019 Jan 22;73(2):148-157. doi: 10.1016/j.jacc.2018.10.051.

10) Zhong W, Liu Z, Fan W, Hameed I, Salemi **A**, **Butera G**, Zucker EJ, Huang C, Zhong Z. Cardiac MRI-guided interventional occlusion of ventricular septal rupture in a patient with cobalt alloy stent. *Ann Transl Med*. 2019 Aug;7(16):395. doi: 10.21037/atm.2019.07.55.

11) Tufaro V, **Butera G**. Chatham-platinum-covered stent, aortic coarctation, and left subclavian artery: sometimes is there one too many? *Cardiol Young*. 2019 Oct;29(10):1302-1304. doi: 10.1017/S1047951119001999.

12) Bautista-Rodriguez C, Michielon G, Di Salvo G, Aw TC, **Butera G**, Kempny A, Fraisse A. Transapical Mitral Melody Valve-in-Valve Implantation in a Child: An Interesting Alternative for Failing Melody Valve. *JACC Cardiovasc Interv*. 2019 Aug 26;12(16):e137-e138. doi: 10.1016/j.jcin.2019.06.005

13) Yang T, **Butera G**, Ou-Yang WB, Zhao GZ, Zhang FW, Pan XB. Percutaneous closure of patent foramen ovale under transthoracic echocardiography guidance-midterm results. *J Thorac Dis*. 2019 Jun;11(6):2297-2304. doi: 10.21037/jtd.2019.06.17

14) **Butera G**. Hypertension in patients with repaired aortic coarctation: the long and puzzling road from Morgagni to stent implantation. *Heart*. 2019 Oct;105(19):1450-1451. doi: 10.1136/heartjnl-2019-315235.

15) Chessa M, Favoccia C, Jha NK, Carminati M, Fernandez Gonzalez L, Eicken A, **Butera G**, Martins Ferreira JD, Pinto F, Tofeig M, Khan MD. Long term follow-up of patients with aortic arch atresia post recanalization. *EuroIntervention*. 2019 pii: EIJ-D-18-00857. doi: 10.4244/EIJ-D-18-00857.

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Clinical Activity and catheterization laboratory activity

- Paediatric and adults with congenital heart disease evaluations
- Trans-thoracic and Trans-oesophageal echocardiography
- All spectrum of interventions in paediatric and adult congenital cardiology
- Ballooning of valves and arteries
- Device closure of ASDs, VSDs, PDAs, sinus venosus ASD, Collaterals, Fistulas, AV malformations.
- Stent implantation in great vessels, aorta, veinous connections, other vascular sites (PDA, RVOT, other).
- Device closure in other complex defects
- Hybrid interventions in paediatric and adult cardiology
- Pulmonary valve implantation
- Structural procedures in adults as paravalvular leak closure, post myocardial infarction VDS, PFO

Catheterization laboratory activity

More than 300 procedures per year during the last 23 years (> 7000 procedures)

Atrial septal defect closure >1800

PFO >1400

Ventricular septal defect closure 150

Post myocardial infarction procedures 35

Patent ductus arteriosus 350

Aortic coarctation ballooning/stenting 180

Unilatera/bilateral pulmonary artery stenting 220

Pulmonary atresia+intact septum (RF+ballooning) 40

Paravalvular leak closure 25

Pulmonary valve implantation 150

PDA stents 45

Rashkind procedures 120

RVOT stents: 20

Vessel embolizations including coronary artery fistulas, MAPCAS, other 200

Miscellanea (foreign body retrieval, renal artery procedures, fetal procedures, hybrid procedures, cutting balloon procedures, trans-hepatic procedures, trans-apical procedures, coronary artery stents, procedures in ECMO, other) 250

Scientific Affiliations

- 1) Società Italiana di Cardiologia Pediatrica (SICP) since 1997**
- 2) Association for the european pediatric cardiology (AEPC) since 2003**
- 3)Society of catheterization and carviovascular interventions (SCAI) since 2004**
- 4)Italian Society of Invasive Cardiology (GISE) since 2006.**
- 5)Fellow of the European Association of Echocardiography (EAE) since 2007.**
- 6)Fellow of the Italian Society of Ecocardiography (SIEC) since 2007**
- 7)Membership ESC since 2010**
- 8)Membership European association echocardiography since 2010**
- 9)Membership European association percutaneous Cardiovascular Interventions since 2011**

Young investigator prizes

Winner in 1996,1998 and 1999 of the “Federico Marsico” Price for a young investigator of the Italian Society of Pediatric Cardiology. The titles of researches were:

- 1999: “Sympathovagal abnormalities in subjects operated on for Tetralogy of Fallot”**
- 1998: “Fetal detection of transposition of the great arteries reduces morbidity and mortality”**
- 1996: “Role of Heart rate variability in the early diagnosis of cardiac autonomic neuropathy in diabetic children and adolescents”**

Winner in 1994 of “Borsa di studio del Comitato Universitario Cattolico”

Title of the Research: “Valutazione della cardiotossicità tardiva da antracicline in età pediatrica”

Patente o patenti

Patente categoria B

Iscrizione Ordine Medici Catanzaro 29/12/1993 n 6211

Capacità Organizzative

President and past-president Working Group Interventional Cardiology of the European Association of Pediatric Cardiology (2011-2017):

- Organization of european training courses on interventional cardiology every year
- Guidelines on training requirements for interventional congenital cardiologists published in Cardiology in the Young
- Organization of Sessions about interventional congenital cardiology during the Meeting of the European Association of Pediatric Cardiology and the European Society of Cardiology
- Administrative activities associated to the life of the working group

Development of research, clinical and strategic activities as Lead of interventional congenital cardiology at Evelina Children's Hospital and St Thomas' Hospital – London – UK

- Introduction of new tools, devices, stents, catheters for interventional procedures
- Preparation and drafting of 4 research papers involving fellows
- Daily teaching activities for interventional fellows
- Periodical teaching activities for cardiology fellows
- Development of strategies to improve organization of activities in the catheterization laboratory

Principal Investigator of clinical trials and registries and reaserch studies (>200 papers published)

Main Editor of books on congenital interventional cardiology

- 3 books published, 3 books in preparation
- 2 books translated in Chinese
- Bibliometric data of published data shows a number of downloads of 75.000 in 4 years, 25000 in three years and 20.000 in 6 months respectively

Scientific Course or Congress director, Board congress member of 15 international meetings

Creation of multidisciplinary team for fetal cardiac interventional cardiology procedures together with Prof Persico and Prof Lombardi at Mangiagalli Hospital and University of Milan

- Creation of clinical and research pathways
- Creation of protocols of intervention of follow-up
- Research activities and participation to meetings of fetal interventions

Creation of multidisciplinary team for pediatric renal interventional procedures together with Prof Lombardi and Dr Salice at Mangiagalli Hospital and University of Milan

- Creation of clinical and research pathways
- Creation of protocols of intervention of follow-up
- Research activities and participation to meetings of renal interventions

Development of research, clinical and strategic activities as Consultant interventional congenital cardiology at San Donato Hospital – Milan - Italy

- Introduction of new tools, devices, stents, catheters for interventional procedures
- Preparation and drafting of >200 research papers involving fellows and colleagues
- Daily teaching activities for interventional fellows
- Periodical teaching activities for cardiology fellows
- Development of strategies to improve organization of activities in the catheterization laboratory
- Creation of the checklist for interventional procedures
- Development of quality improvement initiatives and radiation control in catheterization laboratory

Scientific and Cardiological Advisor of the Technical Committee – Cardiac Centre – Shisong Camerun – (2005-2018)

- Activity of organization and development of research activities in Cardiac Centre Shisong (publication of 20 papers on peer reviewed and Pubmed journals)
- Organization of cardiac missions to perform surgeries and transcatheter procedures (three times/year between 2005 and 2018)
- Organization of Pediatric Cardiology session at International Cardiac Congress held in Yaounde every two years.
- Review and selection of patients to be operated within the Cameroon project
- Continuous training of cardiologists and nurses in Italy and Cameroon within the Cameroon project

Member of Council of Cuore Fratello and Associazione Bambini Cardiopatici nel Mondo associations:

- Organization of the selection criteria and process for missions and patients to be treated.
- Organization of meeting for fundraising and public communication of humanitarian activities
- Administrative activities associated to the life of associations

Ai sensi e per gli effetti delle disposizioni delle disposizioni di cui al D.P.R. 445/2000, si dichiara che le informazioni contenute nel presente curriculum corrispondono al vero.

Autorizzo il trattamento dei dati personali ai sensi dell'art. 13 GDPR (RU 2016/679)

Roma 12/6/2022

Dott. Gianfranco Butera