

Luca Paolo Weltert, M.D.
Curriculum Vitae

CURRICULUM VITAE
LUCA PAOLO WELTERT M.D.

DATI ANAGRAFICI: **LUCA PAOLO WELTERT, MD**

Dipartimento:
U.O. Cardiocirurgia.
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DATA E LUOGO DI NASCITA: 6 Aprile, 1976, Torino, Italia

STAO CONIUGALE: Coniugato

POSIZIONE Dirigente Medico Cardiocirurgo, European Hospital, Roma, Italia

AFFILIAZIONI

- Societa' Italiana di Chirurgia Cardiaca e Vascolare
- Cardio Thoracic Surgery Network CTSNET.org
- Saint Camillus University Foundation

PERCORSO FORMATIVO

- 1995-2001 Università di Torino, Polo Biologico Orbassano S.Luigi ,Torino(Italia).
Facoltà di Medicina.
Laurea in medicina e Chirurgia con lode, menzione accademica e dignità di stampa
- 2001-2005 Università of Torino, Torino, Italia
Scuola di specialità in cardiocirurgia
- 2004-2005 Programma itinerante di formazione specialistica, Università di Torino
Roma, European Hospital
- 2005-2006 Università di Genova, Genova Italia
Scuola di specialità in cardiocirurgia
Titolo di specialista in chirurgia cardiovascolare

ESPERIENZA:

- 2002 Temporary Visitors Fellowship
Herz Zentrum - Berlino Hart Artificial Heart Training Program
Università di Berlino, Berlino, Germania
- 2002-2004 Cura e monitoraggio postoperatori nel trapianto di cuore
Co-responsabilità
Università di Torino, Torino, Italia
- 2003-2004 Programma assistenza Ventricolari Meccaniche
Network Piemonte Orientale
Università di Torino, Torino, Italia
- 2004 Programma di formazione permanente in statistica Medica Sorin Medical
Stresa, Verbania, Italia
- 2005 Programma di formazione permanente in statistica Medica St.Jude Medical Division
Milano, Italia
- 2006 Dirigente Medico Cardiocirurgo, Unità operativa di Cardiocirurgia,
European Hospital, Roma, Italia
- 2003 Fino al 2011 Responsabile della Unità di cura Subintensiva di Chirurgia Cardiaca To
Fino ad oggi – Coordinatore del Laboratorio di Sperimentazione Clinica e
Tecnologica dell'European Hospital, Roma

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- 2009 Gennaio-Aprile Staff Surgeon presso il Salam Center for Cardiac Surgery in Khartoum, Sudan, centro di eccellenza per la chirurgia cardiaca nell'Africa Subsahariana diretto dalla NGO Emergency
- 2015 Coordinatore del Progetto di chirurgia Mitralica mini-invasiva con tecnologia Heart Port
- 2015 Chirurgo cardiaco referente per la società scientifica ANEMO
- 2016 Membro del NATA for Patient Blood Management
- 2017 Consulente Europeo per Baxter Corp. Hemostatics
- 2018 Professore di Statistica Medica presso la International University of Health and Medical Sciences UniCamillus a Roma

AREE DI INTERESSE:

- Chirurgia coronarica a cuore battente e metodiche di miglioramento della pervietà dei graft venosi
- Chirurgia conservativa della radice aortica e della valvola aortica
- Chirurgia Ricostruttiva della valvola mitrale
- Accessi mini-invasivi per chirurgia aortica e mitralica con tecnologia Heart Port
- Emostasi
- Patient Blood Management
- Modellizzazione Computazionale delle strutture anatomiche e delle forze di sollecitazione e fatica
- Genetica ed epigenetica della valvola aortica bicuspidale

RUOLI EDITORIALI

2013 ad oggi Peer reviewer per Minerva Chirurgica Journal

2014 ad oggi: Peer reviewer per Journal of Cardiovascular Surgery

2016 ad oggi: Peer reviewer per European Journal of CardioThoracic Surgery

2017 ad oggi: Peer reviewer per Interactive Journal of CardioThoracic Surgery

2017 ad oggi: Peer reviewer per Journal of Thoracic and Cardiovascular Surgery

PUBLICATIONS :

[Calafiore AM, Di Mauro M, Mestres CA, Di Giammarco G, Teodori G, Pomar JL, Weltert L, Bivona A, Gagliardi M, Iaco AL.](#)

Partial clamping of the brachiocephalic trunk for total ascending aorta replacement without circulatory arrest: early and midterm results.

Heart Surg Forum. 2004;7(3):E201-

[Di Mauro M, Iaco AL, Contini M, Vitolla G, Weltert L, Di Giammarco G, Calafiore AM.](#)

First time myocardial revascularization in patients younger than 70 years. Single versus double internal mammary artery.

Ital Heart J. 2005 May;6(5):390-5.

[Antonio Maria Calafiore, Michele Di Mauro, Marco Contini, Luca Weltert, and Antonio Bivona](#)

Mitral valve repair in ischemic mitral regurgitation

MMCTS (March 24, 2005). doi:10.1510/mmcts.2004.000521

[Antonio Maria Calafiore, Michele Di Mauro, Angela Lorena Iacò, Luca Weltert, and Carlo Di Lorenzo](#)

Septal reshaping

MMCTS (March 24, 2005). doi:10.1510/mmcts.2004.000505

[Antonio M. Calafiore, Luca Weltert, Michele Di Mauro, Guglielmo Actis-Dato, Angela L. Iacò, Paolo Centofanti, Michele La Torre, and Francesco Patanè](#)

Internal mammary artery

MMCTS (November 29, 2005). doi:10.1510/mmcts.2004.001008.

[Calafiore AM, Di Mauro M, Iaco AL, Mazzei V, Teodori G, Gallina S, Weltert L, Samoun M, Di Giammarco G.](#)

Overreduction of the posterior annulus in surgical treatment of degenerative mitral regurgitation.

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[Di Mauro M, Di Giammarco G, Vitolla G, Contini M, Iaco AL, Bivona A, Weltert L, Calafiore AM.](#)

Impact of no-to-moderate mitral regurgitation on late results after isolated coronary artery bypass grafting in patients with ischemic cardiomyopathy.

Ann Thorac Surg. 2006 Jun;81(6):2128-34.

[Centofanti P, Flocco R, Ceresa F, Attisani M, La Torre M, Weltert L, Calafiore AM.](#)

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Ann Thorac Surg. 2006 Nov;82(5):1658-63; discussion 1664.

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A new method for artificial chordae length "tuning" in mitral valve repair: preliminary experience.
J Thorac Cardiovasc Surg. 2007 Aug;134(2):454-9.

[Maselli D, De Paulis R, Scaffa R, Weltert L, Bellisario A, Salica A, Ricci A.](#)

Sinotubular junction size affects aortic root geometry and aortic valve function in the aortic valve reimplantation procedure: an in vitro study using the Valsalva graft.
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[De Paulis R, Scaffa R, Maselli D, Salica A, Bellisario A, Weltert L.](#)

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Ann Thorac Surg. 2008 Feb;85(2):624-7.

[* R. Lorusso1; * S. Gelsomino1; * G. De Cicco1; G. Billè'1; * G. Mariscalco12; * A. Sala12;](#)

[* R. Carella1; * A. Pardini2; * V. Borghetti2; * C. Leva3; * G. Di Credico3; * F. Formica13;](#)

[* G. Paolini13; * P. Caimmi4; * G. Teodori4; * D. Medici5; * R. De Paulis6; * L. Weltert6;](#)

[* M. Di Mauro7; * A. M. Calafiore7; * G. Actis Dato8; * R. Casabona8; * A. Barbone9; * E. Citterio9; * E. Vitali9; * A. Messina10; * G. Troise10](#)

The isthmus study. Long-term italian evaluation of clinical Performance of mitroflow synergy pericardial bioprosthesis
XXIV Congresso Italiano SICCH - Atti

[* A. Salica; * E. Ficarra; * A. Ricci; * R. Scaffa; * S. Nardella; S. D'Alessandro; F. Girola;](#)

[* F. Barberi; * A. Mingiano; * L. Weltert; * A. Bellisario; * D. Maselli; * R. De Paulis](#)

Leaflets sparing for prolapsed mitral valve repair: early and mid Term follow-up

XXIV Congresso Italiano SICCH 2008 - Atti

[* L. Weltert; * R. Scaffa; F. Barberi; * A. Salica; S. Nardella; * A. Ricci; F. Girola; * A. Mingiano;](#)

[* S. D'alessandro; * A. Bellisario; D. Maselli; * R. De Paulis](#)

Bentall procedure with the valsalva graft reduces the stress at

The coronary button anastomoses. A finite element study
XXIV Congresso Italiano SICCH 2008 - Atti

[S. Nardella; * L. Weltert; F. Barberi; * R. Scaffa; * A. Salica; * A. Ricci; * S. D'Alessandro; F. Girola;](#)

[A. Mingiano; * A. Bellisario; * D. Maselli; * R. De Paulis](#)

A case of a 65-year-old-man with recurrent aortic
Pseudoaneurysm
XXIV Congresso Italiano SICCH 2008 - Atti

[* L. Weltert; F. Barberi; * A. Salica; * A. Mingiano; S. Nardella; * A. Ricci; F. Girola; * S. D'Alessandro; * R. Scaffa; * A. Bellisario; D. Maselli; R. De Paulis](#)

Surgical treatment of posterior postinfarction ventricular septal
Defect
XXIV Congresso Italiano SICCH 2008- Atti

[* L. Weltert; * R. Scaffa; F. Barberi; S. D'Alessandro; * A. Salica; * S. Nardella; * A. Ricci; F. Girola;](#)

[* A. Mingiano; * A. Bellisario; * D. Maselli; * R. De Paulis](#)

The reimplantation technique with the valsalva graft: a step by step
Approach to avoid pitfalls
XXIV Congresso Italiano SICCH 2008 - Atti

[* L. Weltert; * S. D'Alessandro; A. Mingiano; F. Barbieri; S. Nardella; * A. Salica; F. Girola; * R. Scaffa;](#)

[* A. Ricci; * D. Maselli; * A. Bellisario; * R. De Paulis](#)

Preoperative very short term high dose epo administration diminishes blood
Transfusion rate in off pump coronary artery bypass. A randomized blind controlled
Study
XXIV Congresso Italiano SICCH 2008 - Atti

[* L. Weltert; F. Girola; * A. Salica; * A. Ricci; S. Nardella; * A. Mingiano; * S. D'Alessandro; F. Barberi;](#)

[* R. Scaffa; * A. Bellisario; * D. Maselli; * R. De Paulis](#)

Sorin solo stentless valve: extended adaptability for sinotubular junction
Mismatch
XXIV Congresso Italiano SICCH 2008 - Atti

[S. Nardella; * R. Scaffa; F. Barberi; A. Salica; A. Ricci; S. D'Alessandro; F. Girola; * L. Weltert; A. Mingiano;](#)

[* A. Bellisario; * D. Maselli; * R. De Paulis](#)

A new surgical strategy of double cannulation in aortic valve replacement
With porcelain aorta

XXIV Congresso Italiano SICCH 2008 - Atti

[* S. D'Alessandro1; M. Beraldi1; * R. Scaffa1; S. Nardella1; F. Barberi1; A. Mingiano1; F. Girola1;](#)

[* A. Salica1; A. Ricci1; * L. Weltert1; * D. Maselli1; * A. Bellisario1; * R. De Paulis1](#)

Optimized patients selection in aortic valve sparing procedure

XXIV Congresso Italiano SICCH 2008- Atti

[P. Guariglia; L. Gabriele; F. Mounayergi; M. Falco; F. Turani; * S. D'Alessandro; * A. Salica; R. Scaffa; * A. Mingiano; * A. Ricci; * L. Weltert; F. Girola; * A. Bellisario; * D. Maselli; * R. De Paulis](#)

Evaluation of incidence neurocognitive impairment after cardiac surgery: role Of cpb

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Valsalva Graft in the Bentall Procedure: From Mechanical Valve to the BioValsalva, World's First Biological Aortic Conduit.

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native aorta: a fluidodynamics and wall stress comparison.. In: XXV Congresso Società Italiana Di Chirurgia Cardiaca. Roma 6-9 Novembre 2010.

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[Scaffa R, Nardella S, Salica A, Girola F, Weltert L, Mingiano A, Ricci A, Bellisario A, Maselli D, De Paulis R \(2010\).](#) Is ascending aortic surgery still an additional risk factor?. In: XXV Congresso Società Italiana Di Chirurgia Cardiaca. Roma 6-9 Novembre 2010

[Salica A, Maselli D, Scaffa R, Nardella S, Weltert L, Ricci A, Mingiano A, Girola F, Bellisario A, De Paulis R \(2010\).](#) Mitral repair by sole use of a ring: anatomical and echocardiographic determinants. . In: XXV Congresso Società Italiana Di Chirurgia Cardiaca. Roma 6-9 Novembre 2010

[Salica A, Maselli D, Bellisario A, Weltert L, Scaffa R, Nardella S, Ricci A, Mingiano A, Girola F, De Paulis R \(2010\).](#) Post-sternotomy mediastinitis treatment: determinants of success. In: XXV Congresso Società Italiana Di Chirurgia Cardiaca. Roma 6-9 Novembre 2010

[Weltert L, Borioni R, Garofalo M, Ricci A, Nardella S, Scaffa R, Mingiano A, Maselli D, Bellisario A, De Paulis R \(2010\).](#) Simultaneous carotid endoarterectomy and coronary artery bypass graft: a prospective monocentric 5 year study. In: XXV Congresso Società Italiana Di Chirurgia Cardiaca. Roma 6-9 Novembre 2010

[Borioni R, Nardi P, Weltert L, Scaffa R, De Paulis R, Garofalo M, Chiariello L \(2010\).](#) Twenty years of experience with combined carotid endoarterectomy and coronary artery bypass grafting.. In: Proceedings, Surgical Vascular Symposium, Berlin 9-13 November 2010

[Weltert L, D'Alessandro S, Nardella S, Girola F, Bellisario A, Maselli D, De Paulis R.](#) Preoperative very short term high dose Erythropoietin administration diminishes blood transfusion rate in off pump coronary artery bypass. A randomized blind controlled study. J Thorac Cardiovasc Surg. 2010 Mar;139(3):621-6; discussion 626-7. Epub 2009 Dec 29

[Maselli D, Ficarra E, Weltert L, Barberi F, Scaffa R, Bellisario A, De Paulis R.](#)

A method to avoid knot-tying in artificial chordae implantation for mitral valve repair.
J Heart Valve Dis. 2010 Mar;19(2):249-53.

[De Paulis R, Scaffa R, Nardella S, Maselli D, Weltert L, Bertoldo F, Pacini D, Settepani F, Tarelli G, Gallotti R, Di Bartolomeo R, Chiariello L.](#)

Use of the Valsalva graft and long-term follow-up.
J Thorac Cardiovasc Surg. 2010 Dec;140(6 Suppl):S23-7; discussion S45-51.

[de Tullio MD, Pascazio G, Weltert L, De Paulis R, Verzicco R.](#)

Evaluation of prosthetic-valved devices by means of numerical simulations.
Philos Transact A Math Phys Eng Sci. 2011 Jun 28;369(1945):2502-9.

[Borioni R, Weltert L, De Paulis R, Bellisario A, Maselli D, Tomai F, Garofalo M.](#)

Early results of synchronous carotid endarterectomy and off-pump coronary revascularization.
J Cardiovasc Surg (Torino). 2012 Jan 24. [Epub ahead of print]

[Weltert L, Nardella S, Girola F, Scaffa R, Bellisario A, Maselli D, De Paulis R.](#)

Diastolic properties of the Sorin Solo, ATS 3F, Edwards Prima Plus and Medtronic Freestyle stentless valves: an independent in-vitro comparison.
J Heart Valve Dis. 2012 Jan;21(1):99-105.

[Weltert L](#)

Blood-Sparing Heart Surgery in Critically Anaemic Patients Refusing Red Blood Cell Transfusions. Blood, ISSN: 0006-4971

[Maselli D, Weltert L, Scaffa R, De Paulis R](#)

How to achieve an aortic root remodelling by performing an aortic root reimplantation.
European Journal of CardioThoracic Surgery, ISSN: 1010-7940

[Maseli D, Weltert L](#)

L'INSUFFICIENZA MITRALICA: STANDARD DI TRATTAMENTO.
Gioranle Italiano di caridologia invasiva, ISSN: 1824-7008

[Borioni R, Garofalo M, Nardi P, Weltert L, Scaffa R, De Paulis R, Chiariello L](#)

Twenty years of experience with combined carotid endarterectomy and coronary artery bypass grafting.
Italian Journal of Vascular and endovascular surgery, ISSN: 1824-4777

[A.S. Ghini, L. Weltert, G. De Persio, R. Borioni, R. De Paulis, G. Pesarini, B. Reimers, F. Castriota, F.L. Ribichini, C. Vassanelli, F. Tomai \(Roma, Verona, Mirano, Cotignola\)](#)

Clinical outcome after endovascular, surgical or hybrid revascularization in patients with combined carotid and coronary artery disease. The FRIENDS study
XXXIII NATIONAL CONGRESS OF THE ITALIAN SOCIETY OF INVASIVE
CARDIOLOGY 3-5 October 2012

[L. Weltert, M. De Tullio, A. Salica, S. Nardella, R. Scaffa, D. Maselli, R. Verzicco, R. De Paulis \(Italy\)](#)

Annular dilatation and loss of sinotubular junction in aneurysmal aorta: implications for leaflet quality at the time of surgery. A combined static stress and fluid interaction finite element study

26th EACTS Annual Meeting, Barcelona, Spain 27–31 October 2012

[S. Nardella, R. Scaffa, L. Weltert, A. Salica, A. Ricci, D. Maselli, A. Bellisario, R. De Paulis \(Italy\)](#)

Incidence of thromboembolic complications in the Bentall procedure combining a perimount valve with a valsalva graft

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[Weltert L, S. Nardella, A. Mingiano, A. Ricci, A. Bellisario, D. Maselli, R. Scaffa, R. De Paulis](#) (2012). Single high dose of erythropoietin two days before surgery: a simplified short term approach to blood spare.. In: XXVI Congresso Società Italiana Di Chirurgia Cardiaca. Roma 10-13 Novembre 2012..

[Weltert L, S. Nardella, A. Bellisario, D. Maselli, A. Salica, R. Scaffa, A. Ricci, R. De Paulis](#) (2012). Integrated electronic clinical system: five thousands cases experience at the european hospital. In: XXVI Congresso Società Italiana Di Chirurgia Cardiaca. Roma 10-13 Novembre 2012.

[Weltert L, M. De Tullio, R. Verzicco, D. Maselli, A. Bellisario, A. Salica, A. Ricci, R. De Paulis](#) (2012). Annular dilatation in aneurismatic aorta is the major determinant of leaflets stress: a combined static stress and fluid interaction finite element study. In: XXVI Congresso Società Italiana Di Chirurgia Cardiaca. Roma 10-13 Novembre 2012.

[Weltert L, Nardella S, Rondinelli MB, Pierelli L, De Paulis R](#)

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Differences in aortic cusp coaptation between the reimplantation and the remodeling techniques of aortic valve-sparing surgery: An in vitro porcine model study.

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Single High Dose of Erythropoietin Two Days Before Surgery: A Simplified Short Term Approach to Blood Spare
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Intraaortic migration of an epicardial pacing wire: percutaneous extraction.
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Current trends in cannulation and neuroprotection during surgery of the aortic arch in Europe†‡

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Frozen Elephant Trunk with Thoraflex™ hybrid prosthesis: early results of the Prospective THORA-FET Registry

SCTS_ACTA 2015 – Manchester 25-27 March 2015

[Luca Weltert, Francesca D’Auria, Iliaria Chirichilli, Raffaele Scaffa, Andrea Salica, Alessandro Ricci, Antonio Mingiano, Lorenzo Guerrieri Wolf, Alessandro Bellisario, Ruggero De Paulis](#)

Prospective, randomized clinical trial of the Hemopatch topic hemostatic in cardiac surgery: initial experience.

In: XXV Congresso Società Italiana Di Chirurgia Cardiaca. Roma 29-31 Novembre 2014.

[De Paulis R, Maselli D, Salica A, Leonetti S, Guerrieri Wolf L, Weltert L, Nardella S, Bellisario A](#) (2015). Mitral repair with the sole use of a semi-rigid band in a sub-

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Prof. LUCA WELTERT

A handwritten signature in black ink, appearing to read 'Luca Weltert', is shown on a light-colored background.