

Dr.ssa med. ELENA CAPORALI

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Place of birth: Arezzo (AR) – Italy
Marital status: Conjugated
Driving license: B Type

Professional Studies and Training

From 2014, September – To: today “Cardiocentro Ticino” (Lugano, Switzerland)

Works at the "Cardiocentro Ticino" in Lugano (Switzerland), where she has the position of Chief Clinic at the Department of Cardiac Surgery, under the guidance of **Prof. Dr. med. Stefanos Demertzis**.

In December 2017 she joined the Cardiology department, under the guidance of Prof. Dr. med. Giovanni Pedrazzini, continuing his collaboration with the Cardiac Surgery Department.

From 2012, August – To: 2014, August San Camillo (Rome) e “Villa delle Querce” (Nemi, Rome)

Collaboration with the Cardiological Rehabilitation Clinic of "Villa delle Querce" (Nemi) begins, continuing the daily collaboration (already begun during the last years of specialization) with the **Cardiac Surgery of S. Camillo Hospital in Rome**, under the guidance of **Prof. Francesco Musumeci**.

On the occasion of the last Cardio-Surgery National Congress sponsored by the Italian Society of Cardiac Surgery (SICCH), which took place in Rome in November 2012, joins the SICCH Board of Directors as **Juniore Director** (in office until November 2016 Re-election in 2014).

From 2014, 3 April – To: 2014, 14 April **Mission in Mauritania**

Participate in a teaching mission in Mauritania, within the framework of the following three-year project funded by the Ministry of Foreign Affairs: **"Training of medical and nursing staff at the Ecole Nationale de Santé Publique and operational assistance in the national centers of cardiology and oncology at Nouakchott"**.

From 2007, July – To: 2012, July **University “Campus Bio-Medico” in Rome**
Specialization in Cardiac Surgery

Begins the specialization course in "Cardiac Surgery" of the University "Campus Bio-Medico" in Rome in July 2007; She attended the Cardio Surgery Specialist's Degree on 30/07/2012, with a vote of 50 to 50 and praise, discussing the thesis entitled "Unprotected Common Trunk Disease: Experience of Seven Years of Myocardial Revascularization at our Policlinico".

During his specialization, in addition to working actively in the team directed by **Professors Elvio Covino** and **Massimo Chello**, he collaborated with other cardio surgery groups directed by:

- **Prof. Francesco Musumeci (Rome)**
- **Prof. Roberto Di Bartolomeo (Bologna)**
- **Prof. Mario Fabbrocini (Alexandria)**
- **Prof. Mario Chiavarelli (Siena)**
- **Prof. Jesus Herreros Gonzalez (Pamplona, Spain)**

consolidating her technical, organizational and decision-making skills.

From 2011, December – To: 2012, July

Bologna

S. Orsola Hospital in Bologna

Within the last year of specialization she collaborates periodically (one week per month) with the team directed by Prof. Roberto Di Bartolomeo.

From 2008, April – To: 2009, April

Alexandria

New Care House “City of Alexandria”

Prof. Mario Fabbrocini has certified that Dr.ssa Elena Caporali has attended, within the specialized training, the U.O. Cardiac Surgery achieving the following goals:

- personally participated in 160 cardiac surgery operations;
- participated in approximately 60 vascular surgery (including placement of abdominal endoprosthesis);
- has personally participated in 30 electrophysiological studies and 50 positioning devices such as pacemakers (mono and bicameral), defibrillators, loop recorders and epicardial electrodes (both thoracoscopic and sternotomic);
- participated in approximately 30 coronary and angiography studies, performing 5 coronarographs in person;
- participated in the activities of the post-operative intensive care unit.

Prof. Fabbrocini stressed that "Dr. Caporali for the whole training course has been distinguished by demonstrating great availability and competence to an ever-professional behavior".

2007, March

Arezzo

Professional Register – Medicine and Surgery

She is enrolled in the Order of Doctors Surgeons and Dentists of the Province of Arezzo, after passing the State Examination in February 2007 (at the University "Campus Bio-Medico").

2006, July 20

University “Campus Bio-Medico” in Rome

Medicine and Surgery Graduation

Degree at the "Campus Bio-Medico" University of Rome.
Voting 110/110 and praise.

Rapporteur: Prof. Elvio Covino

Corapporteur: Prof. Marcella Trombetta

Thesis title: "Time-wheel chassis"; Design and first experimental features of a new biomaterial ".

In particular, a biodegradable device has been designed and realized (in collaboration with a specialist in Bio-Medical Engineering), which, however, thanks to the higher biocompatibility of polymers than that of metal materials, still guarantees their properties. The polymer selected for the production (chitosan) was synthesized by the addition of low molecular weight heparin (LMWH) to prevent platelet adhesion in situ and to provide for the progressive exposure of a new structural tissue during degradation of the filter itself.

From 2005, August – To: 2005, September

Siena

Senese University Hospital

Prof. Mario Chiavarelli, of the Department of Integrated Cardiac Surgery at the University of Siena, certified that Elena Caporali "showed great enthusiasm and curiosity for the daily activities of the program, demonstrating a maturity superior to expectations and has brilliantly presented some Clinical cases during a semintensive visit".

From 2004, August – To: 2004, September

Pamplona (Spain)

University Clinic of Navarre

Prof. Jesus Herreros Gonzalez has certified that Elena Caporali has completed a clinical practice at the Cardiovascular Surgery Department of the Navarre University Clinic by actively participating in all the activities of the Department:

preoperative study of patients, assistance to most surgical operations, including cardiac transplantation, treatment and postoperative treatment; research programs developed in the Experimental Surgery Laboratory of the Faculty of Medicine.

2000

Arezzo (AR)

Classic Maturity

Completed at the classical high school "Francesco Petrarca" in Arezzo with a vote of 95/100.

Publications and scientific papers

<u>Description</u>	<u>Journal / Place</u>	<u>Date</u>
Poster "Circulating exosomes as biomarkers in patients after st-elevation myocardial infarction"	USI Università Svizzera Italiana	15 March 2019
Burrello J., Bolis S., Caporali E. , Grazioli Gauthier L., Burrello A., Barile L., Vassalli G.		
"Endovascular treatment of complex Aortic injuries 40 years after surgery for Aortic coarctation"	Journal of Vascular Surgery Cases and Innovative Techniques	4 April 2018
Elena Caporali , Josua Van Den Berg, Enrico Ferrari Manuscript Number JVS-D - 18-00250		
"Trans-Carotid access for TAVR allows safe and rapid exchange for bailout Valve-in-Valve procedures"	Journal of Cardiac Surgery	28 January 2018
Enrico Ferrari, Elena Caporali , Giovanni Pedrazzini, Stefanos Demertzis. https://doi.org/10.1111/jocs.13513		
"Rapid-Deployment Aortic Valve Replacement vs Standard Bioprosthesis Implantation"	Journal of Cardiac Surgery	11 May 2017
Enrico Ferrari, Christelle Roduit, Pauline Salamin, Elena Caporali , Stefanos Demertzis, Piergiorgio Tozzi, Denis Berdajs and Ludwig von Segesser. https://doi.org/10.1111/jocs.13139		
Acceptance Case Report: "Transcatheter aortic valve implantation for recurrent Valsalva sinus re-dissection and severe aortic regurgitation shortly after surgery for type-a aortic dissection"	Interactive Cardiovascular and Thoracic Surgery	17 April 2017
Elena Caporali, Giovanni Pedrazzini, Stefanos Demertzis, Enrico Ferrari. https://doi.org/10.1093/icvts/ivx145		
Poster "Annulus Stabilization Technique Prevents Paravalvular Leak After Intuity Valve Implantation"	Monaco	2-4 March 2017
Enrico Ferrari, Elena Caporali , Rafael Trunfio, Tiziano Torre, Giorgio Franciosi, Tiziano Cassina, Gabriele Casso, Giovanni Pedrazzini, Stefanos Demertzis. http://heartvalvesociety.org/meeting/abstracts/2017/P74.cgi		
The following work is presented at the Congress of the Swiss Society of Cardiology and Cardiac Surgery: "Rapid-Deployment	Baden	7-9 June 2017

intuity Aortic Valve Replacement vs Perimount Magna Ease bioprosthesis: clinical and hemodynamic result in a matched population.”

E. Ferrari, C. Roudit, P. Salamin, **E. Caporali**, T. Torre, R. Trunfio, D. Berdajs, L. von Segesser, S. Demertzis.

The following abstract is presented at the Congress of the Swiss Society of Cardiology and Cardiac Surgery: “Small numbers, high reliability. Epidemiological aspects of acute aortic events in a defined population in Switzerland.”

Baden **7-9 June 2017**

Susanna Grego, Rafael Trunfio, Tiziano Torre, **Elena Caporali**, Giorgio Franciosi, Enrico Ferrari, Stefanos Demertzis

The following abstract is presented at the Aortic Symposium 2014, for the section “Ascending Aorta”:

“Hypothermic Circulatory Arrest Was Not Identified As An Independent Risk Factor For Early Or Late Mortality In Elective Aortic Surgery. Long-term Results Were Studied In 1205 Consecutive Patients”.

New York **24-25 April 2014**

A. Montalto, G. Casali, **E. Caporali**, C. D'Alessandro, M. Bergonzini, B. Fiorani, M. Feccia, F. Musumeci

San Camillo Hospital, Rome, Italy

Collaboration with GIS-INCARD* to the following study (presented by GIS-INCARD in Chicago):

Chicago 2011 - “Surgical Wound Infections After Median Sternotomy in Italy: Clinical and Microbiologic Analysis of 126 Cases”

* Gruppo Italiano per lo Studio delle Infezioni in Cardiochirurgia.

Roma **2011**

C. Santini, E. Pistella, L. Scudeller on behalf of GIS-INCARD (Collaborators: M. Serra, A. Pan, L. Signorini, P. Manca, M. Braccio, N. Barzaghi, G. Gattuso, A. Eusebio, M. Botta, F. Vaglio, C. Tucci, R. Utili, M. De Feo, M. Cotrufo, C. Pisano, G. Ruvolo, S. Pasquino, F. Miraldi, P. Baiocchi, G.D. Di Nucci †, R. Sinatra, **E. Caporali**, E. Covino, N. Luciani, G.P. Luzi, F. Musumeci, N. Petrosillo, S. Leonardi Cattolica, M.P. Tocco, F. Cesari, E. Zamparini, P.L. Viale, P. Grossi)

SICCH 2010 (Società Italiana di Chirurgia Cardiaca)

Video session: “Two - Stage Repair Of The entire Aorta: hybrid Approach For Type A Aortic dissection.” (P. Mastroberto, **E. Caporali**)

Roma **December 2010**

Poster: “Role of advanced glycation endproducts in restenosis following coronary angioplasty”. (M. Chello, C. Spadaccio, M. Lusini, **E. Caporali**, A. Montecalvo, R. Barbato, F. De Marco, M. Fabbrocini, E. Covino)

SICCH 2008 (Società Italiana di Chirurgia Cardiaca)

“Surgical wound infections after median sternotomy: preliminar results of a large multicentric study in Italy”. (C.Santini, E.Covino and the GINSCARD)

Roma **December 2008**

“Advanced glycation and products: their role in venous graft failure”.

(M.Chello, C.Spadaccio, R.Barbato, **E. Caporali**, I.Viscone, M.Lusini, E.Covino)

Speaker at the II update course "The sternotomy wound infections in cardiac surgery: multidisciplinary approach", with the work:

"Reduced occurrence of post-cardiochirugic sternal infection. A case? "

(**E. Caporali**, M. Lusini, M. Chello, G. Dicuonzo, E. Covino)

**Hesperia
Hospital
(Modena)**

**30 Nov–1 Dic
2007**

Participates in the work for the master's degree in angiology at CBM, on the occasion of the post-graduate theoretical-practical course in angiology.

"Evaluation of surgical risk in the vasculopathic patient".

(Authors: E.Covino, **E.Caporali**, O.Giacinto, M. Lusini)

Roma

**October
2007**

"Cardiac surgery in the eighties: now reality? "

(Dott. Mario Lusini, **Dott.ssa Elena Caporali**, Prof. Massimo Chello, Prof. Elvio Covino)

**Cattedra di
Cardiochirurgia
"Campus
BioMedico"
(Roma)**

**29 May
2007**

The work was accepted for publication and was included in the volume:

"Aggiornamenti in Ecocardiografia Clinica 2007" edito da Pierluigi Aragona MD con il patrocinio SIEC.

SICCH 2006 (Società Italiana di Chirurgia Cardiaca)

Collaboration with GIS-INCARD* to the study: "Preliminary results of a national multicenter study".

* Gruppo Italiano per lo Studio delle Infezioni in Cardiochirurgia.

(Collaborators: M. Serra, A. Pan, L. Signorini, P. Manca, M. Braccio, N. Barzaghi, G. Gattuso, A. Eusebio, M. Botta, F. Vaglio, C. Tucci, R. Utili, M. De Feo, M. Cotrufo, C. Pisano, G. Ruvolo, S. Pasquino, F. Miraldi, P. Baiocchi, G.D. Di Nucci †, R. Sinatra, **E. Caporali**, E. Covino, N. Luciani, G.P. Luzi, F. Musumeci, N. Petrosillo, S. Leonardi Cattolica, M.P. Tocco, F. Cesari, E. Zamparini, P.L. Viale, P. Grossi)

Roma

**2-5 December
2006**

Working Experiences

From: 2007, August – To: 2014, August

Occasional activities

GMR of Rome

She has served at the GMR Listening Center in Rome as a Continuing Medical Assistant with a Temporary / Replaced assignment, covering more than 300 hours of substitution and 4 availability.

118 (Latin)

She is actively part of the Medical First Aid Unit of Latina Unit 118 (at his various locations), gaining ever greater skill in handling unforeseen situations and developing his Teamworking and Leadership skills with Pontino's captains.

Mercy (Pomezia) – Mercy's Angels (Cisterna of Latin)

Assists, as a Relief Team doctor, for various events:

- Ju Jitsu – Judo – Karate (national competitions)

- Horse racing (national competitions)
- Cycling (national competitions)
- Football (Eccellenza)
- Beach Resorts (Lazio)

Family Doctors replacement (Arezzo)

It has full-time Family Medicine replacement experience, both for outpatient activities and home visits; replacements made:

- 2011 (1 week)
- 2010 (1 week)
- 2009 (2 weeks)
- 2008 (1 week)
- 2007 (1 week)

Other Training Activities

<u>Description</u>	<u>Place</u>	<u>Period</u>
Participate with the Ticino Cardio Group at the European Investigator Meeting, organized by COMPASS	Prague (Czech Rep.)	2-4 December 2016
Moderator at the 28th National Congress SICCH on "Treatment of thoracic-abdominal aortic disorders"	Rome (Italy)	25-27 November 2016
Participate at the 30th Annual EACTS Meeting	Barcelona (Spain)	1-5 October 2016
She obtains the certificate of authorization for free practice in the Canton of Ticino of the profession of Doctor	Bellinzona (Switzerland)	06 June 2016
Participate at the 29th Annual EACTS Meeting	Amsterdam (Holland)	4-7 October 2015
Participate in the conference held at the Cardiocentre Ticino on "Levosimendan in acute heart failure" (recognized by the Swiss Society of Thoracic Surgery)	Lugano (Switzerland)	30 March 2015
Participate with the Ticino Cardio Group at the European Investigator Meeting, organized by COMPASS	Sorrento (Naples, IT)	13-15 February 2015
She receives the medical diploma and cardiovascular qualification certificate from the Swiss Medical Commission MEBEKO	Bern (Switzerland)	04 February 2015
Rapporteur at the 27th National SICCH Congress on the topic "Minimally invasive aortic valve replacement via right anterior mini thoracotomy: an initial experience"	Rome (Italy)	30 November 2014
Rapporteur at the 27th National SICCH Congress on the topic "The counterpoint of former residents"	Rome (Italy)	29 November 2014
Participate in the Training Course on Good Clinical Practice (GCP, Training for Investigators) promoted by the Foundation for Your Heart HCF Onlus and co-ordinated by the ANMCO	Florence (Italy)	10 November 2014
Participates in the Training Course in "General Cardiovascular Ultrasound" held by S.I.E.C. (Italian Society of Cardiovascular Disease)	Rome (Italy)	14-17 May 2014

Participates in a teaching mission in Mauritania, under the project "Training of medical and nursing staff at Ecole Nationale de Sante 'Publique and operational assistance at the National Centers for Cardiology and Oncology at Nouakchott, Mauritania" promoted by the Institute for University Cooperation Onlus (ICU) and funded by the Ministry of Foreign Affairs.	Nouakchott (Mauritania)	03-15 April 2014
Partecipates in "Mitral Valve Repair Simulation Skills Lab", held by ETHICON (Johnson-Johnson).	Pratica di Mare (Rome)	27 March 2014
Participate in the "The Donor Surgeon" course, promoted by the National Commission for Continuing Education (through the provider AIM Education s.r.l.), achieving 21 ECM credits.	Padova (Italy)	13-15 November 2013
Take part in the day of insight "Echo Meetings with Mayo Clinic".	Rome (Italy)	1 October 2013
Participate in the "SICCH Basic and Translational Meeting" course at the 3rd Italian Meeting on Cardiovascular Surgery, held at the Centro Cardiologico Monzino.	Milan (Italy)	24 May 2013
Following is the theoretical-practical course of basic cardiopulmonary resuscitation and early defibrillation (semiautomatic) - BLS (accredited IRC).	Villa delle Querce (Nemi, Italy)	5 November 2012
Participate at the XXVI National Congress of the Italian Society of Cardiac Surgery (training event No. 12007246), receiving 28 ECM training credits for the goal of "getting updates on cardiology".	Rome (Italy)	10-13 November 2012
Join the expert forum titled "Optimal treatment of cardiovascular diseases: surgery vs. innovative techniques".	Rome (Italy)	2-3 July 2012
Participate at the Symposium of the Italian Society of Cardiology titled "Oval Forame Patience: From Physiopathology to Diagnostic-Therapeutic Strategies".	Rome (Italy)	13 June 2012
Participate in the Symposium on Cardiac Surgery in the title "In the Heart of Rome" on the topics of the surgical and percutaneous treatment of aortic valvulopathies.	Rome (Italy)	18 May 2012
Take part in the day of insight into the title "Principal technical, technological and quality issues related to oxygenating systems SORIN GROUP".	Mirandola (Bologna, IT)	17 April 2012
Take part in SICCH-TUTORIAL titled "Reoperations in Cardiac Surgery".	Rome (Italy)	30 March 2012
Participate in the seminar "20 years of Aortic Valve Sparring, 10 years of Valsalva graft".	Rome (Italy)	3 March 2012
Participate in the course "Surgery of the Thoracic Aorta".	Bologna	14-15

	(Italy)	November 2011
Participate in the Symposium "Complications of Aorta Torace and Torace - Abdominal Complications. From the anatomy to post-operative treatment".	Campus University Salvatore Venuta (Catanzaro)	20-21 September 2011
Participates in various seminars at the Cardio-Surgery School organized by Prof. Luigi Chiariello : "Update on aortic valve replacement e centro Marfan di Tor Vergata: il primo anno di attività". (June 2009)		
"Invited International Lectures: Surgical evolution for coronary artery by-pass grafting Mitral valve repair". (June 2007)	University "Tor Vergata" in Rome	2009 2007 2006
Joint Meeting with University Hospital of Hamburg "Innovations in cardiac surgery: robot assisted heart surgery and cardiac surgery residency diploma session". (November 2006)		
Participates at the 1st National Conference of EcocardioSurgery.	Milan (Italy)	15-17 October 2007
Participating in the conference "Multivision vision of the third and fourth age multidimensional needs: a humanizing technology".	Campus Bio-Medico (Rome, IT)	22 June 2007
Participate in the course: Observational evaluation of the outcomes of health interventions; A theoretical-practical course aimed at experimenting with the Project "Bricks - Outcome Measurement".	Istituto Superiore di Sanità and Department of Epidemiology (Rome, IT)	16-17 April 2007
Follows the theoretical-practical course of basic cardiopulmonary resuscitation and early defibrillation (semiautomatic) - BLS-D.	Campus Bio-Medico (Rome)	11 November 2006
Participate at the XXIII Pediatric Encounter and 3rd SIP LAZIO Interregional Congress.	Ostia Lido (Rome)	17-18 March 2006
Presented a paper on "stem cell therapy in cardiology. Is the use of embryonic sources based on scientific evidence? "	Campus Bio-Medico (Rome)	July 2005
Take part in the conference "Beyond Artificial Fertilization: Research for a Physiological Therapy of Couple Sterility".	Campus Bio-Medico (Rome)	21 May 2005
Attends the XXII National Congress of the Italian Society of Cardiac Surgery and the "TOP TEN" Course in Cardiac Surgery.	Bologna (Italy)	6-9 November 2004
Participate at the XIV National Congress ANCE (National Association of Extra-Pediatric Cardiologists).	Sorrento (Italy)	28-31 October 2004
Participate in the meeting titled "Surgery of severe heart failure" by Prof. G. Arpesella of the University of Bologna.	Policlinico Gemelli (Rome)	May 2004

Foreign languages

English:

- Reading Capacity: B2 (Upper Intermediate Level)
- Writing Capacity: B2 (Upper Intermediate Level)
- Oral expression capacity: B2 (Upper intermediate level)

German:

- Reading ability: B1.1 (Intermediate level)
- Writing capacity: B1.1 (Intermediate level)
- Oral expression capacity: B1.1 (Intermediate level)

Artistic skills

Music:

- She obtained the title of "Triennial License of Theory, Solfeggio and Dictated Musical for Composers and Instrumentalists" (September 1998) at the Perugia State Music Conservatory.
- She is part of the "Virgo Fidelis" (Choir of the Carabinieri) chorus as Soprano, participating in numerous concerts of Classical music, such as:
 - Church of S. Silvestro at Quirinale (Rome)
 - Church of Saints John and Paul (Rome);
- She is part of the choir of the "Bio-Medical Campus of Rome" as a Soprano, participating in events organized by the same Campus.
- She has studied piano for eight years.

Educational experiences

Rotary International:

At the age of 32 he is one of the founding members of the Rotary Club Rome Giulio Cesare (3 Feb 2014); Leave the Club for business reasons in June 2015.

Rotaract Club:

Rotaract Club Arezzo (sponsored by Rotary Club Arezzo) since 2002; Moves to the Rotaract Club Roma Eur from 2009 (comes out for age limits in June 2012).

Rotaract is an association of young people between the ages of 18 and 30, which promotes professional growth, international understanding and respect for the rights of others.

Computer knowledges

Operating systems:

Windows

Applicativi utilizzati:

- Microsoft: Word, Excel
- Application Software for the Bio-Medical Campus and San Camillo Forlanini in Rome

Interests, Hobbies and Travel

- "Reviewer" del **Journal of Cardiovascular Medicine**
- Various types of sports; Among those practiced are: volleyball, tennis and cross-country skiing
- Latin American music and dance

- Leisure trips in various countries:
USA, England, France, Spain, Austria, Greece, Hungary.

I authorize the processing and communication of my data under D. LGS. 30.06.2003 N. 196.

Lugano, 09/04/2019

Dott.ssa Elena Caporali