



Gabriella Bettelli – Curriculum Vitae

Current address

- *current employment (since 2017, July): Educational Coordinator and Teacher at the 2nd Level University Master in Perioperative Geriatric Medicine, University of San Marino*
- *previous employment (till 2011, Dec.): Director of The Geriatric Surgery Area and Head of the Dpt. of Anaesthesia, Intensive Care and Analgesia, IRCCS INRCA (Italian National Research Centres on Aging), Via della Montagnola 81, 60121 Ancona (Italy)*

Personal data

- Foreign languages: English (written and spoken, proficient), French (written and spoken, proficient), Spanish (written and spoken, proficient); Russian (basic); German (elements) and Croatian (elements)
- Nationality: Italian

Basic Educational Background

- Trained as medical student at the Cardiovascular Hospital (Hôpital Cardiovasculaire) in Lion, France (1970), and the Cardiovascular Centre Arnault Tzanck, in St. Laurent du Var, Nice, France (1973). Aim of stages: to investigate the hemodynamic problems related to haemodilution during extra-corporeal circulation in cardiac and vascular surgery.
- Follow-up was her degree thesis “Total haemodilution in extra corporeal circulation: 205 cases” (1973) and acquirement of information and technics on haemodilution, which shall become a main topic in her early professional and research activity.
- Graduated with honours at the School of Medicine, University of Modena (1973)

Specializations and Post Graduations

- Specialized in **Anaesthesia and Intensive Care** at the University of Bologna, discussing the thesis “Effects of metabolic acidosis on peripheral micro-circulation in vascular surgery” (1976).
- Specialized in **Cardiology** at the University of Bologna, discussing the Thesis: “Radio Isotope Left Ventricle Functional Evaluation” (1984)
- In 1997 qualified as **Quality System Auditor**, Certimedica (Milan)
- 2nd Level Master in **Geriatric Medicine**, University of Ferrara and San Marino, with the thesis “Rationale and feasibility study for a 2nd Level University Master on Perioperative Care of the Elderly” (2015)

Employments

- Since 1974 to 1984 served as consultant anaesthesiologist at the Civil Hospital, Modena, a healthcare facility of 800 beds.
- Since 1984 to April 2008, served as vice-director of the Anaesthesia Dpt at the Modena University Hospital (950 beds).
- Since May 2008 to December 2011, served as Director of the Dpt. of Anaesthesia, Intensive Care and Analgesia at the INRCA (Italian National Research Centres on Aging), in Ancona, a hospital for elderly patient. INRCA is a Research Hospital, the only one in Italy exclusively dedicated to the elderly.
- Since February 2010 to December 2011, she also served at INRCA as Head of a group of 8 surgical Units (General, Vascular and Dermatological Surgery, Urology, Ophthalmology, Diabetic Foot Unit, PACU, including a Research Unit on Ageing Technologies), named "Dipartimento Geriatrico ad Indirizzo Chirurgico" (Geriatric Surgery Area)
- Since 2012, July to 2013: Member of the Expert Panel at the Italian Healthcare Ministry on "Clinical governance of geriatric surgery"

Current employments:

- Educational Coordinator and Teacher at the 2nd Level University Master in Perioperative Geriatric Medicine, University of San Marino
- Teacher at the 2nd Level University Master in Geriatrics, University of Ferrara and San Marino, "Perioperative Care of the Elderly" Session
- Lecturer at Post-graduate Educational Courses in public and private Italian hospitals on Perioperative care of the Elderly
- Editor of the textbook "Perioperative Care of the Elderly: Clinical and Organizational Aspects", Cambridge University Press (2017).

Areas of expertise

- In 1975-76 investigated by rheography the pathophysiological effects of general anaesthesia on acid-bases balance equilibrium, thermal homeostasis and micro circulation during vascular surgery.
- In 1980, trained at The Department of Vascular Surgery of the Pitié-Salpêtrière Hospital in Paris, dealing with intraoperative cardiac pathophysiology during aortic surgery under general anaesthesia, with specific focus on effects of haemodilution autotransfusion and controlled hypotension, using haemodynamic monitoring and ventricular functions curves.
- Since 1983 dealt with education in cardiopulmonary resuscitation techniques of operators exposed to risky activities.
- In 1985 was winner of an open Contest for qualification as Director of Anaesthesia and Intensive Care Department.
- Since 1985 to 1990, was Visiting Professor at the Postgraduate School of Surgery, University of Modena.
- In same years also was Visiting Professor at the School of Medicine and at Postgraduate School of Anaesthesia, University of Modena.
- In 1986 experienced cardiac output echo-Doppler measurement techniques, setting original features for probe location into the oesophagus. Co-operated with B. Angelsen, University of Trondheim (Norway).
- Was member of two scientific and organising committees dealing with the organization of two National Anaesthesia congresses ("Haemodilution and auto-transfusion", Modena 1986, and "53rd National Congress of the Italian Society of Anaesthesiologists SIAARTI", Modena 1989) and many others minor conventions.
- Since 1987 dealt with safety and pollution control in operating theatres, attended and lectured at various meetings and developing specific programs in this field.
- During 1987-1991 was actively involved into research activity of the Department of Cardiology at the University of Modena. Studied the effects of sympathetic stimulation technics on baseline conditions and

under anaesthesia, in healthy patients and in patients affected by congestive heart failure. Dealt with methodological and statistical approach to the scientific research problems (protocol definition, statistical evaluation, sample sizing, etc.).

- In 1988-90 organised the anaesthesia support at the “Dental Centre A. V. Balli for Handicapped Patients”, in Modena. Set up original techniques of conscious sedation for ambulatory dental care, as alternative to general anaesthesia. Performed more than 200 ambulatory sedation on handicapped, non-cooperating, non-communicating and cognitively impaired young patients, many of whom affected by severe malformation diseases and/or respiratory or cardiac conditions. Attended and/or lectured several scientific meetings on this subject, in Italy and abroad.
- In 1990 received the SIOH Prize (Italian Society of Dentists for Handicapped Patients) for the work: “Cascade sedation: efficacy, operative aspects and statistical analysis”
- From 1988 to 1991, was visiting professor at the Postgraduate School of Anaesthesia and nurse Course of Cardiology, University of Modena.
- Since 1991 to 1998 was responsible for the anaesthesia activities at the ENT Department of the University Hospital of Modena. Organized both preoperative care (respiratory and cardiac preparation for surgery and intervention, nutritional support etc.) and intra-operative care in adult and paediatric ENT surgery, and investigated innovative controlled hypotension technics in ear and sinus surgery.
- Since 1993 was also responsible of Ambulatory Anaesthesia activities at the Modena University Hospital (preoperative evaluation and anaesthesia for ambulatory surgery activities, ambulatory pain treatment).
- In November 1994 up specialized in Pain Therapy at the S. Bortolo Hospital in Vicenza.
- In 1997 was appointed by a national governmental institution (ASSR: Agenzia per i Servizi Sanitari Regionali) as member of a Committee charged to define national guidelines for ambulatory surgery
- In 1998 was one of the experts charged by the Italian Healthcare Ministry to draft a national guideline on Ambulatory Surgery Activities.
- Since 2000 to 2007 was responsible for the inpatient and outpatient anaesthesia activities in Obstetrics and Gynaecology at the Modena University Hospital Policlinico
- Since 2008 to December 2011, served as Director of the Anaesthesia, Analgesia, Day Surgery and Intensive Care Dpt and Head of the Area of Geriatric Surgery at the Italian National Research Centres on Aging (a multi-site geriatric research hospital)
- During these years developed theoretical, practical and organizational aspects of geriatric anaesthesia, an emerging subspecialty in Italy. After organizing a hospital-based Consensus Conference, defined and implemented a clinical pathway for perioperative care in geriatric surgery. Developed a model of comprehensive geriatric assessment applied to preoperative anaesthesia consultation. Introduced the use of specific monitoring techniques aimed to reduce the risk of perioperative complications (including temperature, non-invasive haemodynamic and anaesthesia depth monitoring). Defined and implemented context-sensitive postoperative analgesia protocols dedicated to the elderly. Designed, implemented and directed the activities of an Ambulatory Geriatric Surgical Unit.
- Since 2009 to 2011, was Visiting Professor of Anaesthesia at the University “Politecnica delle Marche” (Ancona)
- Since 2004 to 2011, organized and chaired 8 national conventions (DASCA: DAY Surgery Competitive Advancements, an annual meeting of SIAARTI Ambulatory Anaesthesia Committee/Perioperative Care of the Elderly); in the last 4 years, this meeting specifically focused on geriatric surgery and anaesthesia.
- In 2008-2009 was member of the Italian Healthcare Ministry Commission charged to introduce in Italy the WHO Manual and Checklist for safety in Operative Rooms
- In 2011, was one of the 13 female doctors selected by the Italian Healthcare Ministry as the most representative Italian Women in the development of the National Healthcare Service (SSN)
- In 2012, after retiring from hospital service, was called by the Italian Healthcare Ministry to be member of a Working Group on the Clinical Governance of Geriatric Surgery
- Since 2013, she is Lecturer to Post-graduate Educational Courses in public and private Italian hospitals on Perioperative care of the Elderly
- Since 2016 she is Teacher at the 2nd Level University Master in Geriatrics, University of Ferrara and San

Marino, "Perioperative Care of the Elderly" Session

- Since 2017, July, she is Educational Coordinator at the 2nd Level University Master in Perioperative Geriatric Medicine, University of San Marino

Affiliations and personal contributions to National and International Scientific Societies

- Since 1984 to nowadays, member of SIAARTI (Società Italiana di Anestesia, Analgesia, Rianimazione e Terapia Intensiva). In the framework of SIAARTI, was member of the Safety Committee (1990 to nowadays) and founded and chaired two sub-committees (Gruppi di Studio):
 - GdS SIAARTI Day Surgery (2000-2006)
 - GdS SIAARTI Medicina Perioperatoria Geriatrica (2009-2015)
- Since 1994 to 2002 was member of the Board of Directors of SICADS (Società Italiana di Chirurgia Ambulatoriale e Day Surgery)
- Since 1995 to 2000 was Italian Delegate to SAMBA (Society for Ambulatory Anaesthesia)
- Since 1998 to nowadays, member of ESA (European Society of Anaesthesiology). In the framework of ESA, served as member of two SubCommittees:
 - Ambulatory Anaesthesia (2002-2008)
 - Perioperative Care of the Elderly (2009-2014)
- In 2011, was founding member of SIHRMA (Società Italiana degli Healthcare Risk Managers), an Italian Scientific society grouping healthcare risk managers
- Since 2011 to 2018, was delegate from SIAARTI at TIISO (Tavolo Interdisciplinare per la Sicurezza in Sala Operatoria), an institution composed by delegated of the main Italian scientific societies involved in surgery and anaesthesia
- Is annually invited as lecturer or invited speaker at many national and international meetings, such as SIAARTI, SICADS, SIHMA, Società Italiana di Chirurgia Geriatrica, Euroanesthesia, Indoanaesthesia
- Was member of 2 ESA task Forces:
 - ESA TF for the drafting of a Guideline on Postoperative Delirium (2013-2015): currently involved in the updating process of this GL
 - ESA TF for the drafting of a Guideline on Preoperative Evaluation (2017); in referral to this task, she was member of Cluster 1 (Organizational aspects) and Cluster 2 (The elderly surgical patient).

Scientific production:

- Gabriella Bettelli is author or co-author of 135 papers, most of them indexed on Medline, 4 textbooks, 10 short booklets and 3 scientific DVDs
- She is Editor of the textbook "Perioperative Care of the Elderly: Clinical and Organizational Aspects", Cambridge University Press November 2017)
- She is author of chapters on Perioperative Geriatric Care inside various textbooks of Geriatric Medicine published in Italy (2019, 2020)

This CV is updated at October 20, 2019