



**Andrea Sala**

 UNIVERSITY OF INSUBRIA



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## Contact data

### Full Professor of Cardiac Surgery

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## Biography

1942 Born in Milan  
1967 degree in Medicine (MD)  
Internships in Human Biology, Human Anatomy, General Surgery  
1967 – 1969 Internship as Medical Assistant in Surgery Dept..  
1970 Assistant Professor of General Surgery and Surgical Therapy, University of Milan, Prof. E. Malan;  
1971-1972, collaboration with Herztteam des Chirurgischen Klinik A des Kantonspitals in Zurich directed by Prof. Senning (vascular and cardiac surgery, adult and paediatric)  
1972 graduate degree in General Surgery;  
1974 graduate degree in Cardiac Surgery;  
1976 staff surgeon for II Clinica Chirurgica Generale e Terapia Chirurgica diretta dal Prof. E. Malan.  
1976-1977 study-year as clinical assistant for the Service de Chirurgie Cardiovasculaire et Thoracique de l'Université Catholique of Lovanio directed by Prof. C. Ch. Chalant.  
1977 chief of the Service de Chirurgie Thoracique et Cardiovasculaire dell'Université Catholique of Lovanio (Mont-Godine).  
1977 postgraduate degree in Thoracic surgery;  
1978 Staff surgeon for the II Clinica Chirurgica Generale e Terapia Chirurgica dell'Università di Milano and since 1979 for the Dept of Patologia Clinica e Propedeutica Clinica II.  
1979 national examination approval as a Chief in General Surgery;  
1980-1982 study licence for clinical and surgical activity and teaching/research activity (Université Catholique of Lovanio).  
1982 Chief of the Dept of Cardiac Surgery (University of Milan, Institute of Cardiology, Prof. C. Bartorelli)  
1984 Associate Professor of Surgical Semeiology, Medicine Degree, University of Milan  
1985 Associate Professor of Surgical Semeiology, Cardiac Surgery  
1989 Associate Professor of Cardiac Surgery  
1992 Scientific Director of the Banca Italiana Omoinnesti (B.I.O.), Centro Cardiologico "Fondazione I. Monzino", Milano.  
1996/97 Teaching of Cardiac Surgery, Medicine Degree, e Chirurgia, University of Pavia, Faculty of Varese;  
1997 Associate Professor of Cardiac Surgery, University of Pavia, Faculty of Varese  
1997 chief of the graduate School in Cardiac Surgery, University of

Pavia, Varese

1997 Chief of the Dept of Cardiac Surgery of the Azienda Ospedaliera Universitaria "Ospedale di Circolo e Fondazione Macchi" of Varese.

1998 Associate Professor of Cardiac Surgery for the University of Insubria, Varese-Como.

2001 Director of the Dept of Cardiovascular Sciences of the Azienda Ospedaliera Universitaria "Ospedale di Circolo e Fondazione Macchi" di Varese.

2001 Full Professor of Cardiac Surgery

2003 Director of the Dep.t of Surgical Sciences of the University of Insubria

2004 President of the Degree for technician for cardio circulatory physiopathology and cardiovascular perfusion

## Qualifications and awards

Member of the Italian College of Professors of Cardiac Surgery;  
Member of the Italian Society for cardiac Surgery (SICCH);  
Member of the European Society for Cardiovascular Surgery;  
Member of the European Association for Cardio-Thoracic Surgery;  
President of the Scientific Committee of the Foundation "C.Bartorelli" for cardiovascular research (Milan) (onlus).

## Research interests

Prof. Sala has coordinated study groups on different topics. Among the most relevant:

- stem cells implantation in induced myocardial infarction (animal models in rat);
- ischaemia reperfusion injury model (animal model in isolated rat heart in Langendorff apparatus);
- myocardial microdialysis;
- mechanisms of atrial fibrillation after cardiac surgery (metabolic and genetic determinants);
- leukocyte filters in extracorporeal circulation and inflammation mechanisms;
- minimally invasive and beatine-heart cardiac surgery;
- surgical treatment of failing heart;
- aortic and mitral valve sparing techniques.

## Teaching experience and appointments

Prof. Sala is teaching Cardiac Surgery for the University of Insubria, in

- Degree in Medicine;
- Degree in Physiotherapy;
- Degree for Technician in Physiopathology and Cardiovascular Perfusion;
- Postgraduate school of General Surgery;
- Postgraduate School of Vascular Surgery;
- Postgraduate School of Thoracic Surgery;
- Postgraduate School of Paediatrics;
- Postgraduate School of Cardiology;
- Postgraduate School of Cardiac Surgery

He is President of the Degree for Technician in Physiopathology and Cardiovascular Perfusion and Director of the Postgraduate School of Cardiac Surgery

Member of the examination committee for National Medical Examination.

## Representative publications

Director of the Dept. of Surgical Sciences.

Member of the Academic Senate.

### **Efficacy of microdialysis in detecting regional myocardial ischemia.**

Vittorio Mantovani, Charles Kennergren, Michel Goiny, Urban Ungerstedt, Peter Lönnroth, Andrea Sala, Eva Berglin  
The 52nd Annual Meeting of the Scandinavian Association for Thoracic Surgery (SATS), June 12-14, 2003, Turku - Finland, oral presentation code O20, abstract book page 58.

Repair or replacement in chronic ischemic mitral regurgitation: long-term results.

Mantovani V, Mariscalco G, Blanzola C, Leva C, Cattaneo P, Vanoli D, Tenconi S, Sala A.

Second Biennial Meeting of the Society for Heart Valve Disease, 28th June - 1st July, 2003, Paris-France

### **Efficacy of the EuroSCORE in predicting mortality after adult cardiac surgery in relationship to different kinds of operations.**

V. Mantovani, S. Pappa, G. Belli, S. Ferrarese, A. Musazzi, A. Sala  
The 52nd International Congress of the European Society for Cardiovascular Surgery  
(November 7-10, 2003, Istanbul, Turkey) oral poster code CP1.10, Cardiovascular Surgery ESCVS abstracts November 2003 pag. 77

Surgical repair of post infarction ventricular septal defect: 19 years of experience

V. Mantovani, P. Borsani, G. Mariscalco, G. Belli, S. Ferrarese, A. Musazzi, A. Sala

The 52nd International Congress of the European Society for Cardiovascular Surgery  
(November 7-10, 2003, Istanbul, Turkey) oral presentation code C4.2  
Cardiovascular Surgery ESCVS abstracts November 2003 pag. 112

Advantages and limitations of allografts in aortic position: our experience

Blanzola C., Ferrarese S., Mantovani V., Polvani G., Leva C., Sala A.  
The 52nd International Congress of the European Society for Cardiovascular Surgery  
(November 7-10, 2003, Istanbul, Turkey) oral presentation code C6.5  
Cardiovascular Surgery ESCVS abstracts November 2003 pag. 167

Cattaneo P, Mariscalco G, Blanzola C, Chelazzi P, Faeli M, Sala A.  
[Left ventricular thrombus in a patient with antiphospholipid antibody syndrome and hyperhomocysteinemia]  
Ital Heart J. 2003 Jan;4(1 Suppl):54-7. Italian.

### **MORPHOLOGICAL AND FUNCTIONAL EVALUATION OF AORTIC ENDOTHELIUM AFTER WARM ISCHEMIA**

In coll. con: M.G. Petruccioli, G.L. Polvani, G. Rossoni, A. Guarino, G.

Pompilio, M. Porqueddu,  
D. Zavalloni Parenti, I. Barajon  
Xlle Symposium International des Sciences Morphologiques

ANESTESIA E RIANIMAZIONE NEL TRATTAMENTO CHIRURGICO  
URGENTE DEGLI ANEURISMI DELL'AORTA ADDOMINALE  
In coll. con: R. Trazzi, S. Miami, R. Scorza, G. Biasi, G. Ferrozzi  
Atti di Angiologia vol. I Ed. Min. Medica

ARTERIOVENOS FISTULAS  
In coll. con: E. Malan, E. Tardito  
Cap. 32 "Vascular Surgery" di H. Haimovici

IN TEMA DI ANEURISMI DISSECANTI: NOSTRA ESPERIENZA NEL  
TRATTAMENTO MEDICO E CHIRURGICO DI 13 CASI  
In coll. con: G. Ferrozzi, V. Arena, G.F. Giuffrida, T. Gherli, P. Biglioli  
Estr. da "Scritti degli Allievi in onore del Prof. E. Malan"

LA NOSTRA ESPERIENZA NELL'USO DELLA CIRCOLAZIONE  
EXTRACORPOREA NELLA CHIRURGIA DEI GROSSI VASI  
In coll. con: G. Ferrozzi, V. Arena, G.F. Giuffrida, E. Vitali, P. Biglioli  
Estr. da "Scritti degli Allievi in onore del Prof. E. Malan" Morell Off.  
Grafica

LE FISTOLE ARTERO-VENOSE ACQUISITE  
In coll. con E. Tardito, G. Tattoni  
Estr. da Chirurgia Vascolare del Trattato di Tecnica Chirurgica Vol. 14;  
Ed. UTET

LA CIRCOLAZIONE EXTRACORPOREA  
In coll. con G. Ferrozzi  
Estr. da Chirurgia Vascolare del Trattato di Tecnica Chirurgica Vol. 14;  
Ed.

UTETRIVASCULARIZZAZIONE MIOCARDICA SENZA AUSILIO DEL  
BYPASS CARDIOPOLMONARE: STUDIO ECO-COLOR-DOPPLER  
POSTOPERATORIO DEI GRAFTS ARTERIOSI  
In coll. con Di Matteo S, Agrifoglio M, Naliato M, Antona C, Pompilio G,  
Roberto R, Biglioli P.  
Arch Chir Toracica e cardiovasc, vol XVIII, 4:210

ALTERAZIONI EMODINAMICHE INTRAOPERATORIE E  
PSICOPATOLOGIA POST-OPERATORIA: POSSIBILI  
CORRELAZIONI  
In coll. con: M. Guazzi, P.S. Gerometta, V. Arena, P. Biglioli  
XXXVI Congresso Nazionale della Società Italiana di Psichiatria, Vol. I,  
pag. 60-62

DIFFUSE CORONARY DISEASE: A COMPARISON BETWEEN  
THROMBOENDOARTERECTOMY AND MULTIPLE ANASTOMOSES  
ON SINGLE VESSELS  
In coll. con: F. Alamanni, A. Parolari, G. Pompilio, M. Agrifoglio, R.  
Spirito, C. Antona, V. Arena, T. Gherli, D. Cavoretto, P. Biglioli  
Fifth annual meeting of the Mediterranean association of cardiology  
and cardiac surgery, pag. 117-118

LONG - TERM RESULTS OF THE SURGICAL TREATMENT OF  
CHRONIC ISCHEMIC MITRAL REGURGITATION . COMPARISON  
OF REPAIR AND PROSTHETIC REPLACEMENT

In collaborazione con : V.Mantovani , G. Maniscalco, C.Leva,  
C:Blanzola, P. Cattaneo,A.Sala

Journal of Heart Valve disease 2004 ; 13 , No. 3, 421 – 429

WHAT IS THE MINIMAL FOLLOW UP PERIOD TO BE CONSIDERED  
SIGNIFICANT WHEN EVALUTING A VALVE PROSTHESIS MODEL?  
SHOULD 'ACTUAL' AND 'ACTUARIAL' CURVES BE CONSIDERED  
ALWAYS ESSENTIAL FOR ANY SCIENTIFIC PRESENTATION?

a.Sala, V. Mantovani

journal of Heart Valve disease 2004 ; 13 ( Supplement )

GIANT ANEURYSM OF A SAPHENOUS VEIN GRAFT WITH  
FISTULIZATION INTO THE RIGHT ATRIUM: DIFFERENTIAL  
DIAGNOSIS AND TREATMENT

in collaborazione con : C. Leva , G. Maniscalco , C. Blanzola , S.  
Ferrarese , V. Mantovani , S. Tenconi .

Ital Heart J 2004; 5 (5 Suppl): 394-7

BANKS OF VASCULAR HOMOGRAFTS

in collaborazione con : A. Guarino, G. Pompilio, A. Parolari, G. Piccolo,  
P. Biglioli .

Ann Ital Chir 2001 ; 72(2): 125-8

SERUM CARDIAC TROPONIN I AFTER CONVENTIONAL AND  
MINIMAL INVASIVE CORONARY ARTERY BYPASS SURGERY.

In collaborazione con : G. Catozzo, S. Finazzi, S. Ferrarese, G.V. Melzi  
d'Eril .

Clin Chem Lab Med 2001; 39(5): 392-5

SIX YEAR MONITORING OF DONOR SPECIFIC IMMUNE  
RESPONSE TO CRYOPRESERVED AORTIC ALLOGRAFT VALVES:  
IMPLICATIONS WITH VALVE DYSFUNCTION

in collaborazione con : G Pompilio, GL Polvani, G Piccolo, A Guarino, A  
Nocco, A Innocente, M Porqueddu, L Dainese, F Veglia, P Biglioli

AnnThorac Surg 2004;78-557-63

MITRAL REGURGITATION : OVERVIEW OF CURRENT SURGICAL  
TECHNIQUES AND FUTURE DEVELOPMENTS

in collaborazione con : V. Mantovani

Expert Rev Cardiovasc Ther. 2005 Mar; 3(2): 271-84

COMPARISON OF THREE STRATEGIES FOR MYOCARDIAL  
PROTECTION DURING CORONARY ARTERY BYPASS GRAFT  
SURGERY BASED ON MARKERS OF CARDIAC DAMAGE

in collaborazione con : A. Barassi, G. Merlini, S. Finazzi, F. Pallotti, V.  
Mantovani, G.M. d'Eril

Clin Biochem. 2005 Jun; 38(6): 504-8

CULTURE OF SKELETAL MYOBLASTS FROM HUMAN DONORS  
AGED OVER 40 YEARS: DYNAMICS OF CELL GROWTH AND  
EXPRESSION OF DIFFERENTIATION MARKERS

in collaborazione con : A. Baj, A.A. Bettaccini, R. Casalone, P. Cherubino, A.Q. Toniolo  
J Transl Med. 2005 May 12; 3(1):21

HYBRID MANAGEMENT OF AORTIC COARCTATION ASSOCIATED WITH ATRIOVENTRICULAR VALVE REGURGITATION IN THE ADULT

in collaborazione con : C. Leva, G. Maniscalco, V.D. Bruno, V. Mantovani, A. Musazzi, S. Ferrarese, M. Boscarini  
Ital Heart J Suppl. 2005 May; 6(5):297-301 Italian

SURGICAL REPAIR OF POST-INFARCTION VENTRICULAR SEPTAL DEFECT: 19 YEARS OF EXPERIENCE

in collaborazione con : V. Mantovani, G. Maniscalco, C. Leva, C. Blanzola  
Int J Cardiol. 2005 Jun 8;(Epub ahead of print)

EFFECTS OF ADENOSINE AND DEFIBROTIDE ADJUNCT TO A STANDARD CRYSTALLOID CARDIOPLEGIC SOLUTION

in collaborazione con : V. Mantovani, G. Maniscalco, P. Borsani, S. Tenconi, V.D. Bruno, C. Leva, S. Ferrarese  
J Cardiovasc Surg (Torino). 2005 Jun; 46(3): 291-6

LONG-TERM RESULTS AFTER AORTIC VALVE REPLACEMENT WITH THE BRAVO 400 STENTLESS XENOGRAFT

in collaborazione con : G. Polvani, F. Barili, L. Dainese, M. Muratori, M. Porqueddu, P. Biglioli  
Ann Thorac Surg. 2005 Aug; 80(2): 495-501

THE EXTRACELLULAR MATRIX OF THE HUMAN AORTIC WALL : ULTRASTRUCTURAL OBSERVATIONS BY FEG-SEM AND BY TAPPING-MODE AFM

in collaborazione con : M. Raspanti, M. Protasoni, A. Manelli, S. Guizzardi, V. Mantovani  
Micron. 2005 Aug 1; (Epub ahead of print)

## Clinical interests

Chief of the Dept. of Cardiac Surgery, Prof. Sala has personally performed more than 1500 operations. Main clinical interests are:

- minimally invasive aortic and mitral surgery;
- beating-heart coronary surgery;
- surgical treatment of failing heart (LV reshaping operations; VAD implantation);
- aortic valve sparing operations;
- mitral reconstruction surgery;
- minimally invasive and vimeo-assisted mitral surgery.