

CURRICULUM VITAE

Paolo Giribona, Dr. Eng.**Date of birth:** 23 March 1955**Nationality:** Italian**Mother tongue:** Italian**Education:**

1974 Diploma from Scientific High School of Trieste, Italy (grade 60/60)

1981 Degree in Electrical Engineering from the University of Trieste, Italy (grade 110/110)

Language skills:

Language	Reading	Speaking	Writing
English	1	2	2
French	1	3	3
Spanish	1	3	4
(1 - excellent; 5 - basic)			

Professional history:

1981 - 1983 Junior Researcher, Hospitals of Trieste, National Research Project on Medical Informatics

1983 - 1984 Senior Researcher, Dept. of Clinical Engineering, Trieste Hospitals Administration

1984 - 1992 Clinical Engineer at Dept. of Clinical Engineering, Trieste Hospitals Administration

1986 - 1992 Technical Director, CIVAB - Centre for Evaluation of Medical Technology, Area Science Park, Trieste, Italy

1993 - 1998 Director, CRSTBS - Centre for Research on Health Technology, Area Science Park, Trieste, Italy

1994 - 1998 Deputy Director, Ital-TBS Clinical Engineering Services, Trieste, Italy

1998 - 1999 Director, Project "HIS - Hospital Information System", Hospital "S.F. Neri", Rome, Italy

2001 - 2010 Scientific Director, Biomedical Technology Consulting GmbH, Trieste, Italy

2003 - 2010 Co-CEO, MEDarchiver GmbH - Health IT Systems, Trieste, Italy

2006 - 2010 R&D Director, Health Robotics GmbH, Bolzano, Italy

2012 - 2014 R&D Director, IARG SA - Intl. Institutes for Advanced Reproduction & Genetics, Lugano, Switzerland

1996 - today STC, Medical Equipment Procurement Specialist, The World Bank, Washington D.C., U.S.A.

2011 - today R&D Senior Consultant, Mathitech Engineering Group, Sezana, Slovenia

2016 - today Vice President, Biovalley Investments S.p.A., Trieste, Italy

2016 - today President and CEO, Connected Life S.r.l., Trieste, Italy

Present activity:

- Freelance medical and scientific equipment consultant. Main activity fields: (i) development of investment plans for biomedical equipment, (ii) development and revision of technical specifications for equipment procurement, (iii) development of strategies for health technology maintenance and management, (iv) biomedical R&D projects coordination and management.

Other offices held:

1986 - 1991 Italian Ministry of Foreign Affairs: Consultant, Cooperation Projects in Developing Countries (South and Central America)

1989 - 1992 E.C. Programme COMAC-BME "ISCAMI": Member of Management Group

1990 President, Organizing Committee of "EuroPACS 90 - International Meeting on Picture Archiving and Communication Systems", Trieste, Italy - 1990

1993 - 1994 E.C. Project "Assessment of Information Technology in Medicine (ATIM)": Member of Management Group

since 1996 E.C. Project "BEAM - Health Telematics": Coordinator, Project Line "Medical Equipment Management System"

1996 World Health Organization: short term technical consultant (Central Europe)

1996 - 1998 Italian Ministry of Health: Director of Operations, National Project "Observatory of Biomedical Technology"

2008 - 2009 E.C. Project "Safechemo – Safe management of cancer therapies": Member of Management Group

Didactic activities:

1982 - 1996 Lecturer, School for Diagnostic Ultrasound, University of Trieste, Italy
 1991 - 1999 Contract Professor, Postgraduate School of Clinical Engineering, University of Trieste, Italy
 1990 - today Contract Professor, Postgraduate School of Radiology, University of Trieste, Italy

Publications:

More than 60 (on Italian and international scientific journals)

References:

International Projects (World Bank)

- May 1996 Sarajevo: W.B. Project "Essential Hospital Services" -Health Program in Bosnia and Herzegovina
- July 1996 Sarajevo/Pale: W.B. Project "Essential Hospital Services" - Health Program in Srpska Republic,
- September 1997 Moscow: W.B. Project "Medical Equipment Project" - audit mission
- January 1998 Zagreb: W.B. Project "2nd Croatia Health Project" – pre-appraisal mission
- May 1998 Tirane: W.B. Project "2nd Albania Health Project" – pre-appraisal mission
- June 1998 Moscow: W.B. Project "Medical Equipment Project" – audit mission
- July 1998 Sarajevo: W.B. Project "Primary Health Care" – Health Program in Bosnia and Herzegovina – project pre-appraisal
- September - November 1998 Tbilisi: W.B. Project "Georgia Health Project" - Technical assistance to Ministry of Health of Georgia
- January 1999 Sarajevo: W.B. Project "Primary Health Care" – Health Program in Bosnia and Herzegovina – project appraisal
- February 1999: Russian Health Care Foundation – technical audit for clinical laboratory equipment
- March 1999 Bucharest: W.B. Project "Primary Health Care" – Health Program in Romania – pre-appraisal mission
- May 1999 Tbilisi: W.B. Project "Georgia Health Project" – Organization of the "1st Workshop on Medical Equipment Management"
- June 1999 Moscow: W.B. Project "Medical Equipment" – Development of the Y2K national strategy
- July 1999 Skopje, Moscow: W.B. Project "Y2K" – Analysis of implementation
- September – October 1999 Skopje, Bucharest, Zagreb: W.B. Project "Y2K Assessment in Health Care in Macedonia, Romania, Croatia"
- October 1999 Tirane: W.B. Project "2nd Albania Health Project" – pre-appraisal mission
- February 2000 Bucharest: W.B. Project "Primary Health Care" – appraisal mission
- March 2000 Tbilisi: W.B. Project "Georgia Health Project" – Procurement of medical equipment: bids evaluation
- May 2000 Tbilisi: W.B. Project "Georgia Health Project" – Organization of the "2nd Workshop on Medical Equipment Management"
- June 2000 Moscow: W.B. Project "Medical Equipment" – Audit mission
- June 2000 Skopje: W.B. Project: "Perinatal Health Care" – Development of technical specifications for medical equipment procurement
- July 2000 Tbilisi: W.B. Project "Georgia Health Project" – Organization of the "3rd Workshop on Medical Equipment Management"
- October 2000 Tbilisi: W.B. 6th PCU Conference, Chairman of session "Medical Equipment Procurement"
- November 2000 Skopje: W.B. Project: "Perinatal Health Care" – Bids evaluation
- May 2001 Moscow: W.B. Project "Medical Equipment" – Audit mission
- October 2001 Novosibirsk: W.B. Project "Community Social Infrastructure" - Audit mission
- February 2002 Moscow, Tver: W. B. Project "Health Reform Pilot" - Audit mission
- June 2002 Tirana: W.B. Project "Albania Health System Recovery and Development" - Midterm review mission
- June 2002 Moscow: W. B. Project "TB-AIDS Control" – appraisal mission
- December 2002 Moscow: W. B. Project "TB-AIDS Control" - project negotiations
- May, June, November 2004 Tirana, W.B. Project, "Albania Health System Recovery and Development" - Medical equipment procurement review missions
- June 2005 Bishkek, W.B. Project, "Kyrgyz Second Health Sector Reform Project", supervision mission

- November 2011 Phnom Penh, W.B. Project, "Cambodia Second Health Sector Support Project – HSSP2" – Mid Term Review mission
- March 2012 Phnom Penh, W.B. Project, "Cambodia Second Health Sector Support Project – HSSP2" - Medical equipment procurement review mission
- May 2012 Tirana, W.B. Project, "Albania – Education Excellence and Equity Project", Procurement of nature science labs in basic and secondary schools: Technical evaluation of bids for Biology, Chemistry and Physics laboratory equipment.
- April 2013 Phnom Penh, W.B. Project, "Cambodia Second Health Sector Support Project – HSSP2" - Medical equipment procurement review mission
- August 2013 Tashkent, W.B. Uzbekistan Health Project: Joint Fiduciary Review mission
- October 2013 Belgrade, W.B. Serbia II Health Project: Project Appraisal mission
- November 2013 Phnom Penh, W.B. Cambodia "HSSP2" - Medical equipment review mission
- November 2013 Hanoi, W.B. Viet Nam health projects survey mission
- January 2014 Tirana, W.B. Albania Health Project Identification mission I
- March 2014 Tirana, W.B. Albania Health Project Identification mission II
- May 2015 Moscow, W.B. Tyumen Health Project Identification mission
- September 2015 Kiev, W.B. Ukraine "Serving People Improving Health" Project: implementation support mission
- October 2015 Tirana, W.B. Regional Workshop on "Integrity, Procurement, and Contract Management" (speaker)
- November 2015 Tashkent, W.B. Uzbekistan Health III Project: mid-term review mission
- March 2016 Kiev, "Integrity, Procurement and Governance Workshop": speaker
- November 2017: Bratislava, W.B. "Slovakia: Support to Improve Health System Efficiency", planning mission
- January 2018: Belgrade, W.B. "Second Serbia Health Project", mid-term review mission
- Since 1996: Development and revision of technical specifications for medical and scientific equipment in World Bank projects in the following countries: Russian Federation, Bosnia and Herzegovina, Croatia, Serbia, Albania, Macedonia, Romania, Moldova, Poland, Lithuania, Bulgaria, Turkey, Hungary, Lebanon, Belarus, Georgia, Armenia, Azerbaijan, Kyrgyz, Uzbekistan, Tajikistan, Iran, Iraq, Vietnam, Cambodia, Algeria, Samoa.

Italian Institutions

- Health Research Institute "Centro Ricerche Oncologiche", Aviano, Pordenone
- Health Research Institute "B. Garofolo", Trieste
- Health Research Institute "Casa Sollievo della Sofferenza", S.G. Rotondo, Foggia
- Law Court of Parma
- Regional Hospital Administration Medio Friuli, Udine
- Regional Hospital Administration Alto Friuli, Tolmezzo, Udine
- Regional Hospital Administration Basso Friuli, Palmanova, Udine
- University Hospital of Catania
- Regional Hospital Administration Ragusa
- San Giovanni Hospital, Rome
- Regional Hospital Administration Aosta
- Regional Hospital Administration Pescara
- Regional Hospital Administration Padua
- Regional Hospital Administration Verona
- Regional Health Authority, Province of Bolzano
- Regional Hospital Administration Empoli
- Hospital S. Filippo Neri, Rome
- Regional Hospital Administration, Civitavecchia, Rome
- Ital-TBS S.p.A., Trieste
- CRSTBS – Research Centre for Health Technology, Trieste
- CISP, Rome
- Ministry of Foreign Affairs, Dept. for Development Countries Cooperation, Rome
- Regional Health Authority of Friuli Venezia Giulia Region, Trieste
- AREA Science Park, Trieste
- CONSIP, Rome (national procurement of diagnostic imaging equipment)

- ASTALDI S.p.A.:
 - design of new Hospital of Mestre, Venice, Italy
 - preliminary design of the new Hospital of Treviso, Italy
 - preliminary design of the new Hospital of Antofagasta, Chile
- V.S.F.P. S.p.A.:
 - new Hospital of Mestre, Venice, Italy (technical review of the HIS and IT infrastructure)

Patents:

Author of the following patents in the field of biomedical technology:

Italian patents

- 0001316152 *Method and machine for the preparation and distribution of cytotoxic drugs*
- 0001367887 *Method and machine for the manipulation of toxic substances*
- 0001370806 *Device for the manipulation of toxic substances*
- 0001404628 *Machine for the preparation of pharmaceutical products*
- 0001404630 *Machine for the preparation of pharmaceutical products*
- 0001404631 *Method and device for syringe actuation*
- 0001406124 *Assembly for screwing plugs onto syringes*
- 0001406125 *Apparatus for the removal of needles of syringes*
- 0001408624 *Module, machine and method for radio-pharmaceuticals synthesis*
- 0001408625 *Method and machine for radio-pharmaceuticals synthesis*
- 0001411516 *Machine and method for the production of culture media*
- 0001411517 *Method and machine for the production of culture media*

European patents

- EP2094174B1 *Method and machine for manipulating toxic substances*
- EP2054145B1 *Device for the preparation of pharmaceutical products*
- EP2502610B1 *Method for the preparation of pharmaceutical products*
- EP2502669B1 *Machine for the preparation of pharmaceutical products*
- EP2502670B1 *Machine for the preparation of pharmaceutical products*
- EP2511183A1 *Syringe actuating method and assembly*
- EP2537547A1 *An apparatus for the removal of needles of syringes*
- EP2537764A1 *Screwing Assembly for Screwing Closing Plugs onto Syringes*

OHIM Registered Designs

- 002018523-0001 *Machine for the preparation of growing media*

US patents

- US12/0048424 *Method and Machine for the Preparation of Pharmaceutical Products*
- US13/0145725 *Screwing Assembly for Screwing Closing Plugs onto Syringes*
- US13/0150804 *Apparatus for the Removal of Needles of Syringes*
- US8297320 *Machine for the preparation of pharmaceutical products*
- US8404492 *Method and machine for manipulating toxic substances*
- US8499919 *Machine for the production of pharmaceutical products*
- US8539989 *Method for the production of pharmaceutical products*
- US8632738 *Syringe actuating method and assembly*
- US8794276 *Method and machine for the preparation of pharmaceutical products*
- US8800608 *Machine for the preparation of pharmaceutical products*
- US8865070 *Machine for the production of pharmaceutical products*
- US8905086 *Machine for the preparation of pharmaceutical products*

International patents

- WO2008047389 *Device for the disposal of toxic wastes*
- WO2008047390 *Dosing device*
- WO2008012596 *Machine for the preparation of pharmaceutical products*
- WO2008038311 *Mechanical stirrer*
- WO2008062285 *Method and machine for manipulating toxic substances*
- WO2008062485 *Device for detecting elongated bodies*

Prizes:

- Area Science Park Trieste, Italy: 2008 - 3L3T Innovation Award
- Area Science Park Trieste, Italy: 2010 – Special Mention for Innovative Products Development
- Festival of Cities 2012, Vicenza, Italy: Prize “Builder of Ideas 2012”
- The World Bank, 2014, Washington DC, USA, Prize “ECA VPU Team Award”
- Innovation Factory - Area Science Park: "2015 I.F. Challenge" - 1st place (project "Internet of Things")

Most important publications:

W.Ukovich, D.Bravar, P.Giribona, et al.:

"Trieste PACS Project: a Functional Assessment"
Abstracts 7th EuroPACS Conference, 1989, p. 25

D.Bravar, R.Catalano, P.Giribona, C.Giuricin:

"Clinical Engineering Department in Hospital"
Proceedings of the V Mediterranean Conference on Medical and Biological Engineering, 1989, pp.86-89

D.Bravar, P.Giribona:

"Clinical Engineering Development in Italy"
Proceedings of the World Congress on medical Physics and Biomedical Engineering, 1991, Vol.1, p. 509

P.Giribona, D.Bravar, et al.:

"PACS and Related Research in Italy"
Proceedings of the NATO Advanced Study Institute on Picture Archiving and Communication Systems (PACS) in Medicine, 1990, pp. 283-288

D.Boullier, D. de Certaines, M.Del Vecchio, P.Giribona, D.Bravar:

"PACS Technology Assessment on Pilot Sites"
Commission of European Communities - AIM Project: A-1030, Workpackage: 1040, 1990

W.Ukovich, L.Dalla Palma, P.Giribona, et al.:

"Practical Experience with PACS: Benefits and Pitfalls"
Proceedings SPIE, Medical Imaging IV: PACS System Design and Evaluation, 1990, vol.1234, pp. 34-43

P.Giribona, D.Bravar, et al.:

"A Global Project for the Assessment of a PACS System"
Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 1989, Vol.11, pp.789-790

W.Ukovich, D.Bravar, P.Giribona, et al.:

"An Experimental Evaluation of the Impact of a PAC System on the Operations of a Radiology Department",
In: H.U.Lemke, M.L.Rhodes, C.C.Jaffe e Coll. (eds.): Computer Assisted Radiology -Proceedings of the International Symposium CAR'89; Springer Verlag, 1989 pp. 537-540

L.Dalla Palma, W.Ukovich, P.Giribona et al.:

"The Trieste PACS Project: One Year Experience"
Proceedings of the 6th Radiological Symposium, 1989

W.Ukovich, L.Dalla Palma, P.Giribona, et al.:

"Justifying PACS: General Considerations on the Base of the Trieste Experience"
Proceedings of International Conference on HU-PACS, 1989

L.Dalla Palma, W.Ukovich, P.Giribona, et al.:

"Sistema PACS a Progetto Modulare. Esperienza Operativa Preliminare I Parte"
La Radiologia Medica, 1990, vol 80, pp. 9-17

L.Dalla Palma, W.Ukovich, P.Giribona, et al.:

"Sistema PACS a Progetto Modulare. Esperienza Operativa Preliminare II Parte"
La Radiologia Medica, 1990, vol 80, pp. 18-23

W.Ukovich, P.Giribona:

"The Trieste Project: PACS and Beyond"

Abstracts of the II International Conference on IMAGE MANAGEMENT AND COMMUNICATION in Patient Care: new Technology for Better Patient Care, 1991, pp. 78

P.Giribona, D.Bravar et al.:

"The Trieste PACS Project"

European Seminars on Diagnostic Imaging 1990: Course on Digital Radiology and PACS Technology, 1990, vol.3, pp. 27-34

W.Ukovich, D. Bravar, P.Giribona, et al.:

"Trieste PACS Project: a Functional Assessment"

Med.Inform., 1990, vol.15 n.1, p.31-37

P.Giribona:

"Principles for PACS Evaluation"

ISCAMI 1: Integrated System for the Management and Manipulation of Medical Images, Springer Verlag, 1991, pp. 16-23

I.Pinto, S.Polvi, P.Giribona, T.Dell'Aquila:

"Power Spectrum Analysis of MRI Noise"

Physica Medica, 1990, Vol. VI, N. 3-4, pp. 227-229

D.Rustja, P.Giribona, et al.:

"Utilizzo di un Oggetto Test per l'Analisi dell'Indice di Pulsatilità in Flussimetria Doppler"

Ultrasonica, Anno VI- n. 3, 1991, pp. 130-134

D.Bravar, P.Giribona:

"Clinical Engineering Development in Italy"

Proceedings of the World Congress on medical Physics and Biomedical Engineering, 1991, Vol.1, p. 509

P.Giribona:

"Principi ed Apparecchiature"

Abstracts II Corso Nazionale di Aggiornamento Medicina Perinatale, 1992, pp. 41-42

P.Giribona, D.Bravar, F.Stacul, W.Ukovich:

"PACS Experiences in Trieste"

International Journal of Bio-Medical Computing, 1992, vol. 30, No. 3,4, pp. 285-293

F. Stacul, P. Giribona, et al.:

"Sistemi per gestione ed archiviazione di immagini digitali"

La Radiologia Medica, n. 84 (suppl. 1), 1992, pp. 270-276

D.Bravar, S.Fonda, P.Giribona:

"Activities of the Centre for Information and Evaluation of Biomedical Equipment of Trieste"

Proceedings of the VI Mediterranean Conference on Medical and Biological Engineering, 1992; Vol. I pp. 561-564

A.Buizza, T.Dell'Aquila, P.Giribona, C.Spagno:

"An Experimental Set-Up for Measuring the Output of Extra-Corporeal Shock Wave Lithotripters"

Proceedings of the VI Mediterranean Conference on Medical and Biological Engineering, 1992; Vol. I pp. 565-568

A. Buizza, T. Dell'Aquila, P. Giribona, C. Spagno:

"Measurement of the Output of Commercial Extra-Corporeal Shock Wave Lithotripters for Kidney Stones"
Proceedings of the VI Mediterranean Conference on Medical and Biological Engineering, 1992; Vol. I pp. 605-608

A. Buizza, T. Dell'Aquila, P. Giribona, C. Spagno:

"Il litotritore extracorporeo ad onda d'urto: aspetti costruttivi e valutazione tecnica"
L'Elettrotecnica, vol. LXXIX, n. 12, dicembre 1992, pp. 1195-1204

A. Buizza, T. Dell'Aquila, P. Giribona, C. Spagno:

"An example of technical evaluation of medical instrumentation: development of a test protocol for Extra-Corporeal Shock Wave Lithotripters (ESWL)"
Proceedings of the IFMBE workshop "Development, Assessment and Maintenance of Medical Instrumentation", 1993; pp. 80-83

C. Lamberti, L. Carota, P. Giribona et al.:

"Development of a European medical equipment management system"
Proceedings of the IFMBE workshop "Development, Assessment and Maintenance of Medical Instrumentation", 1993; pp. 137-142

P. Giribona:

"Collegamenti con RIS e HIS: problematiche di accesso"
Proceedings of "Radiologia Digitale e PACS: Realtà italiane e progetti", Istituto Nazionale per lo Studio e la Cura dei Tumori, seminar n. 54, Milano, 15.10.1993

D. Bravar, S. Fonda, P. Giribona:

"Il progetto ACMAGEST del C.N.R. ed il progetto CIVAB dell'Area di Ricerca di Trieste: metodologie e strumenti di gestione delle tecnologie biomediche"
in FORUM Valutazione - Documenti, n. 5, maggio 1993 - Ed. F. Angeli, Milano

S. Fonda, D. Bravar, P. Giribona:

"Nuovi compiti per un servizio tecnologico avanzato nella Sanità. L'esperienza del CIVAB"
Proceedings of A.E.I., Associazione Elettrotecnica Italiana, Ancona 3-6 ottobre 1993

F. Stacul, P. Giribona, R. Cuttin Zernich e Coll.:

"Un sistema PACS nella realtà clinica: il progetto di Trieste"
La Radiologia Medica, n. 87: 822-832, 1994. Edizioni Minerva Medica - Torino

P. Giribona, F. de Wet, N. Carbi:

"How to resist the marketing pressure: Medical Equipment"
The Kangaroo, Bibliographic Archives for Maternal and Child Health, n. 1, July 1995, pp. 65-70, ISSN 1122-8474

Diminich, M., Inchingolo, P., Martinolli, N., Dalla Palma, L., Giribona, P., Pozzi, R. & Stacul, F.

"ARIS: an Autonomous Remote Image Station Offering Both Local and Remote IMACS/RIS Resources in an Open Environment"
In Proceed. 3rd European Conf. Engineering and Medicine, p. 241, 1995.

P. Giribona, M. Iacono, C. Giuricin e Coll.:

"A Regional Approach for the Management of Medical Technology in Italy: the Observatory of the Friuli Venezia Giulia Region"
Proceedings of the International Conference on Clinical Engineering, Merano 20-21 October 1995, pp.199-210

A. Cortese, F. Fioravanti, M. Iacono, P. Giribona:

“Clinical Chemistry Lab Improvement Using the Italian Data Bank of Biomedical Technology”
Biochimica Clinica, Suppl. 1/5-6, vol 20, 1996

P. Giribona, S. Targa, D. Rustja e Coll.:

“Physical principles of ultrasounds and echocardiographic instrumentation”

in: G.L. Nicolosi, Trattato di Ecocardiografia Clinica, Cap. 2, pp. 53-100, 1999 Piccin Ed., ISBN 88-299-1495-9

P. Giribona:

“CytoCare: fully automated cytostatic compounding”

in: Abstracts of 4th European GERPAC Conference – Hyères, France, 4-6 October 2006, p.14

A.Tavella, P. Giribona, C. Dalvit

“Informatica e tecnologia in oncologia: l’esperienza di Bolzano”

in: Abstracts of SIFO Conference “Rischio clinico e terapie farmacologiche: quali tecnologie a confronto”
Milano, 10 November 2006

F. Burigana, P. Giribona

“Manual muscle test under weak magnetic field in cancer patients”

in: Abstracts of XXIII IATMO Conference: Cancer, Cell Death and Differentiation – Trieste, Italy, 19-21 October 2007, p. 32.

P. Giribona

“Introduction to the SafeChemo project and technology”

13th Congress of the European Association of Hospital Pharmacists EAHP, Maastricht , The Netherlands, 27 – 29 February 2008

P. Giribona

“Automation, Robots and Vision in the Pharmaceutical Sector: Opportunities of Development”

European Factory Automation Committee EFAC, 6th Assembly Technology Conference
Davos, Switzerland, January 21-22, 2011