

**PROFESSIONAL RESUME
OF
DR. ERNESTO AMELIO**

Attended the University of Siena, and was a student intern at the Institute of General Pathology from 1979 to 1981. Attended the Institute of Specialized Surgical Pathology as a student intern from 1981 to 1986. Graduated in medicine and surgery from the University of Siena on 1986, with a dissertation entitled "*The role of surgery in regard to peptic ulcer disease before and after the advent of H2 receptor blockers, in light of our experience*". Was a volunteer medical assistant at the Orthopedics and Traumatology Clinic of the University of Siena under the direction of Prof. L. Bocchi Jr., and received a specialization diploma as Orthopedics Surgeon on 1991 presenting a thesis entitled "*Reimplantations: microsurgical techniques, indications and surgical management*". He received a specialization diploma in Sport Medicine on 2006.

After taking the 94th Training Course for Graduate Medical Officers at the Scuola di Sanità Militare (Army Medical School) of Florence, he was assigned to the Military Hospital of Verona with the rank of Attending Physician (Lieutenant) in the Orthopedics and Traumatology Department. He held this post from 1987 1989.

He was a Volunteer Attending Physician at the Orthopedics and Traumatology Clinic of the University of Verona, under the direction of Prof. G. De Bastiani at first and later Prof. P. Bartolozzi, from 1988 to 1992, pursuing a specialized interest in the Division of Hand Surgery (Prof. L. Cugola).

At the Italian Red Cross, Verona Division, he served as an ambulance physician from 1989 to 1990.

From July 1, 1990 to March 9, 1992, he was in charge of the Guardia medica (First Aid Station) at the ULSS ("Unità locale socio-sanitaria," i.e., Local Social Welfare and Health Unit) No. 28 in Legnago (Verona, in the Veneto region).

In 1990 he was certified by the Ministry of Health to practice the profession of Ship's Doctor on board Merchant Marine vessels.

From 1991 to 1993 he taught Orthopedics and Traumatology at the schools for the professional training of health-care, technical-assistance and rehabilitative-aid personnel: the School for Professional Nurses, at ULSS No. 25 in Verona.

From September 1, 1991 to September 30, 1991 he worked in the Department of Orthopedics and Traumatology of the University of Western Ontario, London, Ontario, Canada, as a post-graduate fellow, with specific interests in sport traumatology.

From March 9, 1992 to June 15, 1997 he held the position of 1st Level Managing Physician in the Division of Orthopedics and Traumatology at the "C. Poma" Hospital in Mantua.

From June 16, 1997 until the present time, he has held the position of 1st Level Managing Physician in the Department of Hand Surgery at the Hospital of Verona, where he has responsibility for the Day Surgery Department for hand surgery.

During the 1997/1998 academic year he was a visiting professor at the University of Verona, teaching Neurotraumatology at the school for specialization in Orthopedics and Traumatology.

He has been a member of the Italian Hand Surgery Society from 1988 to the present time. He served on the Board of Directors of the Society, holding the office of Regular Accounts Auditor for two-year terms in 1989-1991 and 1995-1997.

From 1988 to the present time, he has been a member of the S.E.R.T.O.T. (Emilia-Romagna Tri-Veneto Society for Orthopedics and Traumatology). He has served on the Society's Board of Directors since 1998, as Secretary to the Chairman for a two-year term in 1998/2000, and as Accounts Auditor for the 2000/2002 and 2002/2004 two-year periods. He has been in charge of the Scientific Editorial Office of the SERTOT Journal of Orthopedics and Traumatology since 1998.

His interest in shock-wave therapy began in 1997. In November, 1999 he became a founding member of S.I.T.O.D. (the Italian Society for Shock-wave Therapy) and served on the Board of Directors for the two-year period 2000/2002, holding the office of *Probo Viro* (Arbitrator). He was elected to the office of Counselor to this scientific society for the two-year term of 2002/2004. He is a member of the I.S.M.S.T. (International Society for Musculoskeletal Shock-wave Therapy). Since 1999 he has attended all of the conferences of the Italian Society and the International Society as a speaker and/or moderator. He has

administered approximately 10,000 shock-wave treatments for musculoskeletal pathologies.

He collaborates with the Biochemical Institute of the University of Verona, directed by Prof. Hisanori Suzuki, with regard to biochemical and molecular studies of the effect of shock-waves on cells.

He collaborates with the Section of Rehabilitation Neurology of the University of Verona directed by Prof. A. Fiaschi for clinical studies on the effect of the shock waves on the spastic muscle.

From January 01 th 2005 he is Chief of the Shock Wave Unity of the University Hospital of Verona.

He serves on the Quality and Accreditation Committee of the Hospital of Verona, as the coordinator for Hand Surgery.

From April 01 th 2007 to July 31 th 2008 he was Chief of the Hand Surgery Unit of the University Hospital of Verona.

LIST OF CONTINUING PROFESSIONAL EDUCATION COURSES

1) Continuing education course in Oncology: "Home Care Treatment for the Oncology Patient" - University of Siena - Prof. Ricci, director - September-December 1986.

2) Ninth Knee Surgery Course- University of Siena - Prof. Bocchi, director - November 1987.

3) 2nd Continuing Education Course for Practicing Physicians - University of Verona - Prof. Cordiano, director - June 1987-May 1988.

4) "A. Bonola" Continuing Education Course in Hand Surgery - University of Modena - Prof. Bedeschi, director - December **1987**, December **1988**, December **1989**, January **1991**.

5) 9th Preparatory Course in Hand Surgery - San Paolo Hospital in Savona - Prof. Mantero, director - July **1989**.

6) 5th Course in Rehabilitation and Orthosis of the Hand and Arm - University of Brescia - Prof. Brunelli, director - March 1989.

7) 4th International Course in Mesotherapy and Retention in Sports Medicine - Jesolo - June 1989. (**Course Instructor**).

8) Orthopedic-Traumatological Pathology of the Soccer Player: Common Aspects - University of Siena - Prof. Bocchi, director - May 1990.

9) 2nd International Conference Week for Surgical Updates - University of Milan - Prof. Montorsi, director - July 1990.

10) 1st Regular Italian Course in Orthosis and Rehabilitation of the Hand and Arm - Dr. Landi, Coordinator - Modena, 1990.

11) Post-graduate fellowship at the Department of Orthopedics and Traumatology of the University of Western Ontario, Canada - September, 1991.

12) Personal Techniques in Thumb Reconstruction - University of Verona - Dr. Cugola, director - November, 1993.

13) International course: Osteosynthesis in Hand Surgery - University of Verona - Prof. Bartolozzi, director - October, 1994.

14) Continuing education course on the pathology of the shoulder and foot - Hospital of Montecchio Maggiore - Prof. Andreasi, director - November, 1995.

15) Veronese Update Conference: "THE ELBOW" - University of Verona - Dr. Cugola, director - October, 1997. **(Course Instructor).**

16) Instabilités e Paralysies de l'èpaule (Instabilities and Paralyses of the Shoulder) – The Hand Institute – Paris – Prof. Gilbert, director – March, 1998.

17) Veronese Update Conference: "THE TRAUMATIC WRIST" – University of Verona – Dr. Cugola, director – October, 1998. **(Course Instructor)**.

18) Theoretical-practical continuing education course on "SHOCK-WAVES IN ORTHOPEDICS" – Federico II University of Naples – Prof. Corrado, director – November, 1999. **(Course Instructor)**.

19) Continuing education course on "Shock-waves in Orthopedics and Traumatology" – Hospital of Tortona – Dr. Orsi, director. – November, 1999. **(Course Instructor)**.

20) Traumatology and Sports: "MUSCLES AND TENDONS" – Hospital of Mantua – Dr. Renzi Brivio, director. – May, 2001. **(Course Instructor)**.

21) European Conference Week for Occupational Safety and Health Protection: "Musculoskeletal disorders due to repetitive motion" – ASL ("Azienda Sanitaria Locale," i.e., Local Health Establishment) No. 20 of Verona – Dr. Marchiori, director – Verona – October, 2001. **(Course Instructor)**.

22) Course in Radiation Protection for Medical Personnel – Hospital of Verona – Dr. Chierago, director – November, 2001.

LIST OF SCIENTIFIC WORKS

1) G.Castaldi, E.Amelio, R.Testoni, L.Cugola: "SPASTIC FINGER IN CHILDREN" – Riv. di Chir. della Mano (Journal of Hand Surgery) – Vol. XXVIII, No. 3, 1991. **(paper given at a national conference)**.

2) L.Cugola, E.Amelio: "VASCULARIZED FIBULA TRANSPLANT" – Proceedings of "The first European congress of hand surgery" – Taranto, 1989. **(paper given at an international conference)**.

3) L.Cugola, E.Amelio: "APPLICATIONS PARTICULIERES DEL MINI-FIXATEURS DANCE LA CHIRURGIE DE LA MAIN" (SPECIFIC APPLICATIONS OF MINI-FIXATIONS IN HAND SURGERY) – Proceedings of the "XXV congress de la societe francaise de chirurgie de la main" (XXV Conference of the French Hand Surgery Society) – Paris, 1989. **(paper given at an international conference)**.

4) L.Cugola, E.Amelio, R.Testoni: "ROTATORY DISLOCATION AND INSTABILITY OF THE WRIST JOINT: PATHOLOGICAL AND DIAGNOSTIC ANATOMY" – Proceedings of the "III congreso internacional Hispano-Italiano de cirurgia de la mano" (III International Hispano-Italian Conference on Hand Surgery) – Girona, Spain, 1989. **(paper given at an international conference)**.

5) L.Cugola, G.Musatti, E.Amelio: "TREATMENT OF CONSOLIDATION DELAYS AND PSEUDOARTHROSIS OF THE CARPAL SCAPHOID WITH PEMF-5" – Proceedings of the "III congreso internacional Hispano-Italiano de cirurgia de la mano" (III International Hispano-Italian Conference on Hand Surgery) – Girona, Spain, 1989. **(paper given at an international conference)**.

6) A.Mantovani, P.Zambelli, F.Vita, E.Amelio: "FRACTURES OF THE TUBERCLE OF THE CARPAL SCAPHOID IN CHILDREN" - S.E.R.T.O.T. (Emilia-Romagna Tri-Veneto Society for Orthopedics and Traumatology) Proceedings, Vol. XXXI, No. 2, 1989.

7) E.Amelio, L.Cugola: "EXPERIMENTAL OBSERVATIONS ON ALLOGRAPHIC NERVE GRAFTS" - Proceedings of the "XLI simposio della Società Italiana di chirurgia della mano" (XLI Symposium of the Italian Hand Surgery Society) - Parma, 1990. **(paper given at a national conference).**

8) L.Cugola, E.Amelio: "RECIDIVISM AT 9 YEARS OF SYNOVIAL SARCOMA OF THE ELBOW WITH INVOLVEMENT OF THE RADIAL NERVE" - Proceedings of the "XLI simposio nazionale della Società Italiana di chirurgia della mano" (XLI Symposium of the Italian Hand Surgery Society) - Parma, 1990. **(paper given at a national conference).**

9) L.Cugola, E.Amelio: "EXTERNAL FIXATION IN HAND PATHOLOGY" - Proceedings of the "Primeras jornadas Chileno-Italianas de ortopedia y traumatologia" (First Chilean-Italian Orthopedics and Traumatology Conference) - Santiago del Chile, 1990. **(paper given at an international conference).**

10) L.Cugola, A.Amendola, E.Amelio, P.Leso, F.Lavini: "DIAPHYSIARY FRACTURES OF THE HUMERUS: TREATMENT WITH AN EXTERNAL AXIAL FIXATION (F.E.A.)" - S.E.R.T.O.T. Proceedings, Vol. XXXII, No. 1 - 1990.

11) L.Cugola, A.Amendola, E.Amelio, F.Lavini: "DIAPHYSIARY FRACTURES OF THE FOREARM: TREATMENT WITH AN EXTERNAL AXIAL FIXATION (F.E.A.)" - S.E.R.T.O.T. Proceedings, Vol. XXXII, No. 1 - 1990.

12) E.Trinchi, D.Bucci, C.Guerra, E.Amelio: "PROSTHETIC TREATMENT OF FRACTURES OF THE NECK OF THE FEMUR IN ADVANCED AGE" - Abstract from the "XXV Congresso OTODI" (XXV OTODI Conference ("Ortopedici e Traumatologici Ospedalieri d'Italia," i.e., Hospital Orthopedists and Traumatologists of Italy) - Selva di Fasano, 1994. **(paper given at a national conference).**

13) E.Amelio, C.Guerra, P.Rebesan, A.Arrigoni, S.Grangiè: "ENDOMEDULLARY PINNING IN DIAPHYSIARY FRACTURES OF THE TIBIA" - S.E.R.T.O.T. Proceedings, Vol. XXXVII, No. 1, 1995. **(paper given at a national conference).**

14) S.Grangiè, E.Amelio, M.Ferraresi, C.Guerra: "CONTEMPORANEOUS BILATERAL PATHOLOGICAL FRACTURE OF THE BRACHIAL BICIPITAL TENDONS IN A MANUAL LABORER: A CLINICAL CASE STUDY" - S.E.R.T.O.T. Proceedings, Vol. XXXVIII, No. 1/2, 1996. **(paper given at a national conference).**

15) S.Russo, E.Amelio, O.Galasso, B.Corrado, L.Cugola: "EXTRACORPOREAL SHOCK-WAVE LITHOTRIPSY IN THE TREATMENT OF OSSEOUS PSEUDOARTHROSES" - Minerva ortopedica e traumatologica (Orthopedic and Traumatological Wisdom) Vol. 52, No. 6, pp. 261-267 (December, 2001). **(paper given at a national conference)**

16) E.Amelio, R.Scarsini, L.Cugola, V.Colletti: "TREATMENT OF CALCULOSIS OF THE SALIVARY GLANDS WITH EXTRACORPOREAL LITHOTRIPSY (ESWT)" - Proceedings of the 3rd National S.I.T.O.D. Conference - Milan - May 2002. **(paper given at a national conference)**

17) G.Gotte, E.Amelio, S.Russo, E.Marlinghaus, G.Musci, H.Suzuki: "SHORT-TIME NON-ENZYMATIC NITRIC OXIDE SYNTHESIS FROM L-ARGININE AND HYDROGEN PEROXIDE INDUCED BY SHOCK-WAVES TREATMENT" - FEBS (Federation of European Biochemical Societies) Letters 520 (2002), pp. 153-155.

(paper given at an international conference)

18) S.Russo, E.Marlinghaus, E.Amelio, B.Corrado, O.Galasso, L.Cugola, E.M.Corrado: "SHOCK-WAVES IN THE TREATMENT OF PSEUDOARTHROSES: CLINICAL AND EXPERIMENTAL ASSESSMENT OF THE NEO-OSTEO-ANGIOGENETIC RESPONSE" - G.I.O.T. (Italian Journal of Orthopedics and Traumatology) 2000; 26 (Suppl. 1):S6-S12.

(paper given at a national conference)

19) E.Amelio, S.Russo, O.Galasso, B.Corrado, L.Cugola, E.M.Corrado: "THE ROLE OF EXTRACORPOREAL LITHOTRIPSY IN THE TREATMENT OF PSEUDOARTHROSES OF THE FEMUR AND TIBIA" - S.E.R.T.O.T. Proceedings, Vol. XLIII, No. 1 - 2001, pp. 12-16.

(paper given at a national conference)

20) S.Russo, O.Galasso, E.M.Corrado, G.Gotte, H.Suzuki, E.Amelio, L.Cugola, E.Marlinghaus: "EXTRACORPOREAL SHOCK-WAVE THERAPY: THE ROLE OF CAVITATION EFFECT" - Abstract from the 4th ISMST (International Society for Musculoskeletal Shock-Wave Therapy) Conference - Berlin - May 24-26, 2001.

(paper given at an international conference)

21) L.Cugola, E.Amelio: "LONG BONE NON-UNION: TREATMENT BY EXTRACORPOREAL SHOCK-WAVE (ESW)" - Abstract from the 3rd ISMST Conference - Naples - June 1-3, 2000 - p. 59.

(paper given at an international conference)

22) E.Amelio, L.Cugola: "ACUTE AND CHRONIC TENDON PATHOLOGY IN ATHLETES" - Abstract from the 3rd ISMST Conference - Naples - June 1-3, 2000 - p. 81. **(paper given at an international conference)**

23) S.Russo, E.M.Corrado, G.Gotte, H.Suzuki, E.Amelio, L.Cugola: "DIRECT PRODUCTION OF NITRIC OXIDE FROM NITROGEN MEDIATED BY CAVITATIONAL JET STREAMS: INTERPRETATION OF THE ANGIOGENETIC, ANTI-INFLAMMATORY, AND NEUROMODULATORY RESPONSE" - Proceedings of the 2nd National S.I.T.O.D. (Italian Society for Shock-Wave Therapy) Conference - Catanzaro - June 14-16, 2001 - p. 62. **(paper given at a national conference)**

24) E.Amelio, L.Cugola, A.Atzei: "FOREARM AND HAND BONE NON-UNION: TREATMENT BY HIGH ENERGY SHOCK-WAVE (ESWT)" - Poster-book (i.e., poster session) at the VII FESSH (Federation of the European Societies for Surgery of the Hand) Conference - Barcelona, Spain - June 21-24, 2000 - Sect. 15, p. 105, No. 176. **(poster from an international conference)**

25) B.Magnan, A.Bragantini, E.Facci, E.Amelio, D.Biasi, P.Caramaschi, P.Bartolozzi: "TREATMENT OF PLANTAR TALALGIAS AND FASCITES" - Progressi in medicina e chirurgia del piede-IL PIEDE REUMATICO (Advances in Medicine and Surgery of the Foot - THE RHEUMATIC FOOT) - Vol. No. 11 (2002), pp. 181-188 - AULO GAGGI EDITORE (Aulo Gaggi Publishing Company). **(paper given at a national conference)**

26) S.Mariotto, E.Cavaliere, A.Campa, A.Carcereri de Prati, E.Amelio, S.Russo, E.Marlinghaus, H.Suzuki: "EFFECT OF SHOCK WAVE ON CATALYTIC ACTIVITY OF ENDOTHELIAL NITRIC OXIDE SYNTHASE IN HUMAN

UMBILICAL VEIN ENDOTHELIAL CELLS" – The Italian Journal of Biochemistry – vol. 52 n.3 September 2003. **(paper given at a national conference)**

27) E.Amelio and P.Manganotti: "EFFECT OF SHOCK WAVE THERAPY IN PATIENTS AFFECTED BY STROKE WITH UPPER LIMB SPASTICITY: NEUROPHYSIOLOGIC AND CLINICAL STUDY" – Medimond International Proceedings of 9th Congress of the International Federation of Societies for Surgery of the Hand – Budapest, June 13-17, 2004. **(paper given at a national conference)**

28) H.Suzuki, S.Mariotto, E.Cavalieri, E.Amelio, et al: „EXTRACORPOREAL SHOCK WAVE UP-REGULATES NITRIC OXIDE PRODUCTION IN HUMAN UMBILICAL VEIN ENDOTHELIAL CELLS" – Abstract from The 3rd International Conference on the Biology, Chemistry and Therapeutic Applications of *Nitric Oxide* – Nara Japan 24-28 maggio 2004. **(paper given at a national conference)**

29) S.Mariotto, E.Cavalieri, E.Amelio, et al: "EXTRACORPOREAL SHOCK WAVES: FROM LITHOTRIPSY TO ANTI-INFLAMMATORY ACTION BY NO PRODUCTION" – *Nitric Oxide*: 12(2005) 89-96

30) P.Manganotti and E. Amelio: "LONG TERM EFFECT OF SHOCK WAVE THERAPY ON UPPER LIMB HYPERTONIA IN PATIENTS AFFECTED BY STROKE" *Stroke* 1967-1971 September 2005.

31) A.R.Ciampa, A. Carcereri de Prati, E. Amelio et al.: "NITRIC OXIDE MEDIATES ANTI-INFLAMMATORY ACTION OF EXTRACORPOREAL SHOCK WAVES" – *FEBS Letters* 579 (2005) 6839-6845.

32) Amelio E., Manganotti P.: "EFFECT OF SHOCK WAVE THERAPY ON SPASTIC EQUINUS FOOT IN PATIENTS AFFECTED BY CEREBRAL PALSY" – *Journal of Neurology* – Volume 253 – supplement 2 – May 2006 **(poster given at an international conference)**

33) Mariotto S., Carcereri De Prati A., Cavaliere E., Amelio E., Marlinghaus E. and Suzuki H.: "EXTRACORPOREAL SHOCK WAVE THERAPY IN INFLAMMATORY DISEASES: MOLECULAR MECHANISM THAT TRIGGERS ANTI-INFLAMMATORY ACTION" - Current Medicinal Chemistry, 16, 2366-2372, 2009.

34) Tinazzi E., Amelio E., Marangoni E., Guerra C., Puccetti A., Codella O.M., Simeoni S., Cavaliere E., Montagnana M., Adani R., Corrocher R., Lunardi C.: EFFECT OF SHOCK WAVE THERAPY IN THE SKIN OF PATIENTS WITH PROGRESSIVE SYSTEMIC SCLEROSIS: A PILOT STUDY - Rheumatol. Int. January 2010. **(report given at an international conference)**

35) Amelio E. and Manganotti P.: EFFECT OF SHOCK WAVE STIMULATION ON HYPERTONIC PLANTAR FLEXOR MUSCLES IN PATIENTS WITH CEREBRAL PALSY: A PLACEBO-CONTROLLED STUDY - J Rehabil Med 2010;42:339-343. **(report given at an international conference)**