

**FRANCESCO
BENZAZZO**
curriculum vitae

INFORMAZIONI PERSONALI

Nome FRANCESCO BENAZZO
Indirizzo/Domicilio
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Nazionalità Italian
Data e luogo di nascita 1955
Codice fiscale

ISTRUZIONE E FORMAZIONE

- Date (da – a) 1969-1974 Classic High School “Liceo Classico Ugo Foscolo”
1974-1980 Faculty of Medicine, University of Pavia
1980, Graduation, Medicina e Chirurgia, Università di Pavia
- Nome e tipo di istituto di istruzione o formazione
- Qualifica conseguita Medical Doctor

ISTRUZIONE E FORMAZIONE

- Date (da – a) 1980 – 1985
- Nome e tipo di istituto di istruzione o formazione Resident in Orthopedics and Traumatology, Clinica Ortopedica e Traumatologica, Università di Pavia, Osp. San Matteo, Chairman Prof. Mario Boni
 - Research investigations on electron microscopy, 1977-1983, Istituto di Anatomia Umana, University of Pavia, and Abteilung Elektronenmikroskopie, Medizinische Hochschule, Hannover, using special techniques such as freeze-etching and freeze-fracture applied to collagen tissue (cartilage and tendon), and Istituto di Anatomia Umana, University of Bologna
 - As member of the Sports Medicine Unit of the Department: Consultant since 1983 of the Italian Track and Field National Teams; Team Medical Doctor at the Olympic Games of Los Angeles, 1984.
 - During residency, all the sectors of Orth and Traum, with specific address to spine surgery and sports traumatology (tendon diseases, knee injuries), under the supervision of the chairman, Prof. Mario Boni,
- Qualifica conseguita 1985: Specialist, Orthopaedics and Traumatology. Winner, travelling fellowship of COCOMAC (organization preceding EFORT) as the best Italian resident on a national basis (3 places available), Portugal

ESPERIENZA LAVORATIVA

- Date (da – a) 1980-1986 Team Doctor of Football Team US Mottese, Milano
1983-now Consultant, Italian Track and Field National Teams (FIDAL, Federazione Italiana di Atletica Leggera); team doctor at World Track and Field Championships of Rome, Tokyo, and at other European and World events
2000-2014 Consultant Orthopaedic Surgeon of the first national division team, Internazionale FC, Milano.
Surgeries performed on the top class players of the teams for ACL and complex knee ligament reconstructions, tendon injuries, muscle injuries, and fractures in the entire period.
1987-1990, Assistant, Sports Traumatology Section, Clinica Ortopedica e Traumatologica, Università di Pavia, Policlinico San Matteo
- Nome e indirizzo del datore di lavoro

<ul style="list-style-type: none"> • Tipo di azienda o settore • Tipo di impiego • Principali mansioni e responsabilità 	<p>Assistant</p> <p>Surgeon for sports traumatology: injuries of all players of the teams under agreement of medical coverage with the Department, and of any other athlete seeking for specialized care</p> <p><u>1990 - 2000</u></p> <p>Clinica Ortopedica e Traumatologica, Università di Pavia, Policlinico San Matteo</p>
<ul style="list-style-type: none"> • Date (da – a) • Nome e indirizzo del datore di lavoro 	<p>Clinica Ortopedica e Traumatologica, Università di Pavia, Policlinico San Matteo</p> <p>Ricercatore (first degree of the university career)</p> <p>All medical and surgical duties, plus teaching duties for medical students and residents in OT, General Surgery, Radiology</p>
<ul style="list-style-type: none"> • Tipo di azienda o settore • Tipo di impiego • Principali mansioni e responsabilità 	<p>Clinica Ortopedica e Traumatologica, Università di Pavia, Policlinico San Matteo</p> <p>2000: Full Professor of Orthopaedics and Traumatology, University of Pavia, winner of a national contest</p> <p>2002 to now: Chairman, Clinica Ortopedica e Traumatologica Università di Pavia, Fondazione IRCCS Policlinico San Matteo</p>
<ul style="list-style-type: none"> • Date (da – a) • Nome e indirizzo del datore di lavoro 	<p>Università di Pavia</p>
<ul style="list-style-type: none"> • Tipo di azienda o settore 	<p>Clinica Ortopedica e Traumatologica dell'Università di Pavia, Fondazione IRCCS Policlinico San Matteo.</p>
<ul style="list-style-type: none"> • Tipo di impiego 	<p>Chairman of the Clinical Department, Chairman of the Residents Program</p>
<ul style="list-style-type: none"> • Principali mansioni e responsabilità 	<p>Clinical and administrative management of a Department of 75 beds: joint replacement unit, trauma unit, spine unit, sports traumatology unit, tumor unit, hand unit, pediatric unit including neurologically affected children. First aid management 24/24 hs. 5 surgical theaters every day for 5 days a week, 2 additional surgical theaters per week for hand surgery, 2 additional surgical theaters per week for pediatric orthopedic surgery, emergencies 24 hs.</p> <p>Teacher, OT for medical students in the Harvey Course (English language), semester September to February; teacher, OT for residents of OT, General Surgery, Radiology, Motor Sciences.</p> <p>Promoter of Laboratory of cell cultures, founder member of CIT (Centro Interdipartimentale di Ingegneria Tissutale), now Health Technology Department (HTD) Founder and President of Co.R.S.A., non-profit consortium of the University of Pavia for the rehabilitation of the athletes (2014)</p>
<ul style="list-style-type: none"> • DATE (DA – A) 	<p>27 ottobre 2003 to now. Chairman, Residents Program in Ortopedia e Traumatologia, Università degli Studi di Pavia. Ri-elected in 2016 for three years course.</p>
<ul style="list-style-type: none"> • NOME E INDIRIZZO DEL DATORE DI LAVORO 	<p>Università degli Studi , Pavia</p>
<ul style="list-style-type: none"> • TIPO DI AZIENDA O SETTORE 	
<ul style="list-style-type: none"> • TIPO DI IMPIEGO 	
<ul style="list-style-type: none"> • PRINCIPALI MANSIONI E RESPONSABILITÀ 	<p>6 residents per year. 5 years program. Educational centers affiliated: Ghenk Hospital, Ghenk, Belgium; Baisseterre, Guadaloupe; Poliambulatorio Brescia; Hospital Lanzo d'Intelvi; Ospedale di Piacenza, Piacenza; IRCCS Casa di Cura Città di Pavia.</p> <p>Fellowship program: with Sicot. Candidates apply, and selection according to titles</p>

and experiences. Program on joint replacement, hip, knee and shoulder. 4 fellows per year.

He has developed specific interest in joint replacement, namely the hip and the knee; he started during the residency program with a specific dedication to juvenile hip disorders such as epiphysiolysis (sufe), hip dysplasia, Perthes disease.

He specifically trained also in the fixation of the fractures of the proximal hip in elderly patients, developing a good experience in ORIF with throcanteric plates, and in hip replacement, partial and total.

He has been acting as traveling surgeon for an Italian orthopedic company, starting on 2000, with a traveling surgical fellowship in different cities and hospitals in South Korea, implanting hips with modular neck and CoC bearing, and in the following years in Australia, China , Saudi Arabia, New Zealand.

He has made in the following years many other travels in different countries, always performing surgery for hip replacements:

- Israel (Haifa)
- Spain (Barcellona)
- Japan (Hiroshima, - where in 2014 he has performed under invitation of the University of Hiroshima, the opening surgery for the inauguration of a new surgical block in the prefecture of Hiroshima, giving the opening lecture on the surgical treatment of hip dysplasia)

For the increasing interest in the treatment of difficult hips, such as DDH, and post-traumatic hips, he has developed a specifically dedicated system, where he coupled a conical stem of 5° of conicity with modular bodies with necks with different CCD (125°, 135°, short and long). The system, named Modulus, and commercialized by Limacorporate, is very popular in Japan over the years starting from 2002, topping a selling share of 1500 pieces per year. He travels on a regular basis to Japan every year, in order to meet the surgeons who have adopted the modular philosophy of addressing the difficult hips, revising the clinical data, discussing the possible improvements of the system and of the instruments.

Based on these cooperation, and with the University of Nagoya, specifically together with Dr. Hirotake Higuchi, a second version of the conical stem has been developed, where the stem was lengthened with a double conical design (5° proximally, 2° distally). This system is actually under clinical evaluation in specific centers in Italy and Japan.

A third system is under development by him with the engineers of Limacorporate, based on the concept of hip resurfacing with half head resection, but with CoC coupling. The final design, instruments and surgical technique have been finalized, the trials on cadavers already performed, and after the CE mark the implantation will start in selected centers.

Publications

The list of publications concerning hip replacement, as well as basic science research with a direct relation with hip replacement in primary and revision settings, has been included.

The interest in revision hip surgery is supported by the publication of a book (first page image included), written in the year 2000 as part of the process to become full professor of orthopedics and traumatology, achieved on May, 2000. The book was entirely devoted to

the hip revision surgery. A second, updated edition of the same book is under preparation. Prof. Francesco Benazzo has organized on a regular basis surgical sessions for visiting surgeons interested in revision hip replacement. The list is enclosed.

The Department he chairs is an official SICOT visiting center for fellows, for a minimum period of 3 months, for surgeons who are interested in hip revision surgery.

The list of the fellows who have already attended the fellowship, and those upcoming, is enclosed.

PRIMA LINGUA **Italiano**

ALTRE LINGUE

	English
• Capacità di lettura	Excellent
• Capacità di scrittura	Good
• Capacità di espressione orale	Excellent

French (excellent in lecture, good in writing, good in speaking)
Spanish (excellent in lecture, average in writing and speaking)

ALTRE LINGUE

STAGES

**ATTIVITÀ DIDATTICA ED
EDITORIALE**

Responsible of the following courses:

- Orthopedics and Traumatology, Medical student Harvey course (english course, first semester)
- Orthopedics and Traumatology for residents of OT, Radiology, General Surgery, Vascular Surgery
- Orthopedics and Traumatology (Sports Traumatology), Faculty of Motor Science
- Biotechnology in Orth and Trauma
-

Author of peer reviewed articles (70) on the following topics:

- basic science (collagen fibrils and collagenic tissue morphology; stem cells and scaffolding)
- Spine surgery
- Sports Traumatology (tendon surgery, experimental and clinical evidences; stress fractures)
- TK engineering
- Joint replacement clinical results

Disclosure: see AAOS database. Scientific and project advisor for Limacorporate (Hip), consultant and developer for Zimmer, consultant for Ceramtec, and Coorstec.

Invited speaker to national and international congresses on a weekly basis

Instructor in cadaver courses for primary and revision TKA in Paris, Cape Town, Leuven, Tubingen, (Zimmer), Arezzo (independent)

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Pavia, 2016

Francesco Benazzo