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Surgeon, ENT Specialist, and Audiologist

Lancisiano Academic

ENT and Audiology Department, S. Giovanni Battista Hospital – Order of Malta, Rome

Head of ENT Hospital Medical School

Associate Member of the Italian Sports Medicine Federation – FMSI

Co-founder of the Ultrastructural Biophysics Research Institute - UBRI and Healthcare Technology

President of the Integria ETS Foundation

High-tech minimally invasive endoscopic microsurgery using balloons for obstructive and inflammatory syndromes of the nose, sinuses, Eustachian tubes, and middle ear in adults and children

Regenerative ENT surgery for structural and mucosal damage to the respiratory tract caused by trauma, chronic inflammation, or the results of invasive surgery

Endoscopic reconstruction of the tympanic membrane with stem cell precursors

Minimally invasive treatment of adenoids and tonsils with organ preservation (remodeling, resurfacing, volumetric reduction, closure of tonsillar crypts) and snoring with sleep apnea

Innovative diagnosis and treatment protocols for tinnitus and hearing loss

Main topics and professional skills

A fifth-generation ENT specialist focusing on the upper airways, he has had the opportunity to learn from and train with the greatest masters in his field, connecting

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and elaborating on their insights and teachings. His areas of research and scientific output (over 150 publications and 4 books) have focused particularly on the use of the most modern technologies to arrive at a complete diagnosis and contextual resolution therapy for all obstructive and inflammatory syndromes of the airways and ear, simultaneously present in the patient (both adult and pediatric) and on regenerative therapies to repair structural damage and damage to the respiratory mucosa. With absolute respect for functionality and healthy tissues, he has developed protocols, patented instruments, and introduced new mini and micro-invasive techniques to make it possible to treat all pathologies in a single, comprehensive soft surgery session, without incisions, bleeding, or uncomfortable swabs (Thinvasive DRB System™). These methods and high-tech protocols developed over the years are the subject of an advanced training course offered worldwide by the Unitelma Sapienza University of Rome.

*As of January 2025, he has performed over **10,000 ENT surgeries** as the primary surgeon.*

Professional experience

From 2021 to present	ENT and Audiology Service – S.Giovanni Battista Hospital, Sovereign Military Order of Malta, Rome Head of ENT Diagnostic and Therapy Center
From 2019 to 2025	ENT Department, Institute of Sports Medicine – CONI, Rome Head of Respiratory Research Project
From September 2018 to 2019	Director of the Minimally Invasive Endoscopic ENT and Airway Surgery Unit San Carlo di Nancy Hospital - Rome
In 2018	ENT Manager Local Health Authority, ASL RM1 Inter-company Department Audiology and Vestibology Service Nuovo Regina Margherita Hospital, Rome
December 2015 to 2018	ENT Manager Local Health Authority, inter-company department ASL RM1 S. Spirito in Saxia Monumental Complex S. Spirito Hospital, Rome
From March 2011 to December 2015	Level I Medical Director Head of ENT Endoscopic Surgery S. Spirito Hospital, ASL RM-E Rome
From April 2009 to March 2011	Level I Medical Director Head of the Phoniatrics and Speech Therapy Service and the Developmental Age Disease Prevention Unit for childhood hearing loss and speech delay Local Health Authority District XII ASL RM-C Rome
From 06.08.2002 to April 2009	Level I Medical Director Assistant ENT Unit, S. Eugenio Hospital, Rome ASL RM-C Hospital

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From 10.07.2002 to 06.08.2002	Level I Medical Director Ward, outpatient clinic, and day hospital activities, operating room ACO San Filippo Neri Hospital in Rome
From February 16, 2002, to July 10, 2002	Medical Director ASL RM-C Hospital in Rome ENT Unit, S. Eugenio Hospital, Rome
From April 4, 2000, to February 2, 2002	Authorized volunteer Clinical and surgical activities ASL RM-C Hospital in Rome ENT Unit, San Eugenio Hospital and ACO Hospital at ENT Unit ACO San Filippo Neri Hospital in Rome

Education and Training

2016	National Qualification as **University Professor** **Second Level**, competition sector 06/F3 - otolaryngology and audiology
October 28, 2004	Specialization Diploma in **Audiology** University of L'Aquila 50/50 with honors
October 28, 1999	Specialization Diploma (specialist training pursuant to Legislative Decree No. 257 of August 8, 1991) **Otolaryngology** Catholic University of the Sacred Heart in Rome – Gemelli Polyclinic 50/50 with honors
June 10, 1996	Registration in the Register of Surgeons Rome Medical Association
May 1996	Professional qualification as Surgeon Medicine and Surgery Catholic University of the Sacred Heart in Rome – Gemelli Polyclinic 96/100
July 26, 1995	Degree in Medicine and Surgery Catholic University of the Sacred Heart in Rome – Gemelli Polyclinic 108/110
1989	Classical High School Diploma San Leone Magno Institute in Rome 60/60

Teaching and Association Activities

Over the years, he has received numerous awards and has demonstrated specific skills in teamwork, motivating colleagues and coordinating work and research groups.

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He has taught courses in the academic years:

2002-2003	ENT occupational diseases (at San Filippo Neri RM) and the course on ENT allergies (at S. Eugenio RM). SMO (Hospital Medical School of the Lazio Region)
2003-2004	"Pediatric Otolaryngology" (at S. Eugenio RM). at the SMO
2004-2005	"New technologies in the diagnosis and treatment of ENT diseases" (at S. Eugenio RM). of the SMO
2005-2006	"Course on Rhinology and Endoscopic Nasal Sinus Surgery" (at S. Eugenio RM). by the SMO
2007-2008	Organized and chaired under the auspices of the Hospital Medical School (at S. Eugenio RM). 1st-2nd-3rd theoretical and practical course on allergic rhinitis and associated diseases, 2nd theoretical-practical course on coblator otolaryngology surgery,).
From 2008 to present	**Lecturer** for theoretical-practical courses on allergology and airway diseases - Lofarma
From 2000 to present	**Speaker** at the national congress of the Italian Society of Otolaryngology (SIO) and lecturer on single-topic congress courses
From 2020 to present	**Director and lecturer on ENT topics for university master's degrees and advanced training courses for Unitelma Sapienza, Unicusano, Upainuc, and UniMarconi**
From 2009/2019	Every year, he has organized and chaired the theoretical-practical course on allergic rhinitis and associated diseases, under the auspices of SIDERO Onlus and the Hospital Medical School (c/o S.Spirito in Saxia RM), now in its 14th edition (c/o S.Spirito in Saxia RM).
2013/14- 2014/15	Lecturer at the School of Specialization in Physical Medicine and Rehabilitation at La Sapienza University of Rome
2014-2015	Lecturer in the Sports Medicine course at the University of Rome "Foro Italico"
February 2005	Winner of the "2005 ENT Academy Award" for the scientific paper "Tonsillectomy with Coblator and dissection: a comparison of techniques and description of our experience" presented at the 2005 ENT Academy Congress, an official event of the A.U.O.R.L. (University Association of Otolaryngologists).
June 2005	Third place in the "Lofarma Awards 2005" with the scientific paper "Immunotherapy with sublingual allergoid in the treatment of children's allergic rhinitis: clinical effectiveness and action on allergic rhinosinusitis" presented at the IFOS 2005 World Congress (International Federation of Otorhinolary

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2006	Adjunct professor at the University of Tor Vergata in Rome, teaching Pediatric Otolaryngology.
Since 2007	Head of the Otolaryngology department at the Hospital Medical School
2008	Representative for Italy for Coblator Instructional Training Courses, with theoretical and live surgery sessions.
Since 2008	President of the Italian Society of Otorhinolaryngological Endoscopy and Radiofrequency (SIDERO).
Since 2010	Member of the Italian Society of Rhinology
Since 2011	Member of the Italian Society of Cleft Lip and Palate
2011	Member of the Lancisiana Academy of Rome
Since 2012	Professor of Otolaryngology and Audiology at the University of Rome "Giovanni Paolo I"
2012	Co-founder of the Italian Academy of Rhinology
2012	Head ENT Specialist at the Operation Smile Italy Foundation, Sorrisi project
Since 2012	President of SIDERO Onlus Italian Society for the Dissemination of Endoscopy and Minimally Invasive Surgery (Onlus)
Since 2015	Member of the Italian Academy of Nasal Cytology (AICNA)
2016	Nationally qualified as Associate University Professor
Since 2017	Lancisiano academic by decree of the Ministry of Cultural Heritage
Since 2017	Lecturer at LUISS University in Rome for the interfaculty course in Law, Economics, Political Science, Well-being, and Sustainability
Since 2018	Member of the Board of Directors of the Italian Academy of Nasal Cytology (AICNA)
From 2018	Member of the Scientific Committee of the Italian Association of Freelance Otolaryngologists (AIOLP)
From 2021	Scientific Director of Artemisia Academy, for medical-scientific academic training
2023-2025	Member of the Scientific Committee of CONI
2024	Co-Founder UBRI Institute – Ultrastructural Biophysics Research Institute and Healthcare Technologies
2025	Establishment of a new Centro Businco clinic at Mandaya, replicating his protocols. The centre serves as a hub for physician training, medical education, and patient treatment, continuing the mission of excellence in oncological care and clinical innovation.

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2026	Partnership and professorship with NUS (National University of Singapore) for education, training and dissemination of Businco protocols

Training Experience

until 2023	- He has participated in over 1000 symposia, national and international conferences, and clinical and surgical refresher courses in Italy and abroad, also as a speaker and lecturer, obtaining numerous certificates and diplomas.
February 1996	- Special course in nasal and sinus surgical anatomy on cadavers at the University of Utrecht, Netherlands (Department of Functional Anatomy and Department of Otolaryngology)
June 1998	- Special course in surgical anatomy of the neck on cadavers at the University of Utrecht, Netherlands (Department of Functional Anatomy and Department of Otolaryngology)
June 15 to August 18, 1999	- International Course in Functional Aesthetic Nasal Surgery, directed by Prof. AF. Van Olphen and J. De Groot, in Utrecht, Netherlands
June - July 1999	- Resident-fellow at the Department of Otolaryngology (Dir. Prof. GJ. Hordijk) and Phoniatrics (Dir. Prof. PH.Dejonckere) in Utrecht, Netherlands. During this period, he carried out a research project on the compartments of the larynx (in collaboration with the Department of Anatomy, Prof. B. Hillen and R. Bleys), attended the operating room participating in surgical procedures on the middle ear, cochlear implants, nasal surgery, and neck surgery, and participated in clinical phoniatric and training activities with particular regard to electromyography of the larynx.
April 2000	- 35th Ear Surgery Course held in Nijmegen, Netherlands, with theoretical and practical exercises on the temporal bone (Faculty of Medical Sciences of the University of Nijmegen).
October 2000	- Resident-fellow at Dr. JB Causse's ear surgery center, participating in theoretical and surgical activities on otosclerosis, congenital ear malformations, and middle ear surgery.
Academic year 2000/01	- Course at the Lazio Region Hospital Medical School on occupational dysphonia.
Academic year 2001/02	- Course on occupational diseases in ENT.
May 2010	- Limited-enrollment theoretical-practical course in phonosurgery and speech therapy at the University of Modena.
Author:	- He has authored over 140 scientific publications on otolaryngology

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From 1996 to present	in both national and international scientific journals. - He has written the ENT diseases column for the monthly magazines "Blow In" and "Casting News."
1996 and 1997	- He has written the column on otolaryngological diseases for the monthly magazine "Sport e Salute."
From 2005 to present	- He has published four texts on otolaryngology: ● Allergic rhinitis -eds. Mediserve, ● Rhinopharyngeal Structures -eds. Gnocchi, ● ENT in images -eds. Lozzi, widely distributed within the specialty ● Complete diagnosis and contextual therapy of respiratory syndromes – EAI (see publication) - Chapter on Pediatric Otolaryngology in the volume Family Pediatrics Treatise - Editeam. - He is an ENT scientific reviewer for international journals including: Eur Ann Allergy Clin Immunol, Laryngoscope, Acta Otorhinolaryngologica Pediatric Allergy and Immunology, Psychology Health & Medicine, Jacobs Journal of Bone Marrow and Stem Cells, Journal of Immunoassay and Immunochemistry, and other journals. - He is a member of the Editorial Board of the Journal of Otolaryngology Forecast and Argomenti ORL Moderna. - He designed, published, and ratified the SIDERO Businco-90 Questionnaire for the assessment of respiratory well-being and ENT symptoms based on 90 self-administered screening questions in 2015. - He designed, published, and ratified the SIDERO Longo-Businco-50 Questionnaire for the assessment of Audio-vestibular Disorders based on 50 self-administered screening questions in 2018. - He chaired and organized FAD ECM courses in person and online in 2021-22 for Artemisia Academy, reporting on the most modern topics in the ENT specialty according to a translational approach with other disciplines. - He is a contract professor for Unitelma Sapienza in the Risk Management, Artificial Intelligence, and Telemedicine course in 2022. - He is an adjunct professor for Unicusano in the Master's degree in Speech Therapy in 2022. - He is an adjunct professor at UniMarconi in the Master's degree in integrated medicine in 2023. - He is Director of the Master's degree in child and Developmental Audiology at Unicusano in 2022-23. - He is Director of the UniMarconi Course on The Words of Sport in 2023-24 - He is Director of the Metabolic Fitness in Water Course for Upainuc in 2025 - **He is Director of the Advanced Training Course on Innovative Protocols in Medicine for Unitelma Sapienza in 2025**

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Surgery: protocols, procedures, and patents

- He personally developed and codified the minimally invasive surgical technique for endoscopic pediatric adenoidectomy (coblator-assisted, Sunnyvale, California), designing the shaping instrument for this surgery in 2009
- He designed and patented the instrument for minimally invasive turbinate surgery, which is manufactured and distributed worldwide (Quantum/Vesalius molecular quantum resonance, Telea, Vicenza), and personally codified the SIS turbinate compartmental surgical technique for the treatment of nasal respiratory obstructions in 2010
- He designed and patented the instrument for minimally invasive surgery of the middle turbinates and torus tubarius, produced and distributed worldwide (Quantum/Vesalius molecular quantum resonance, Telea, Vicenza), and personally codified the surgical technique for remodeling the turbinates and middle meatus, and the torus tubarius for tubal stenosis in 2015.
- In 2011, he completed a Level II Master's degree in implantable hearing aid surgery (Prof. Barbara) at the S. Andrea University Hospital in Rome.
- In 2012, he was responsible for training at Johnson & Johnson in international courses on balloon dilation surgery for the minimally invasive treatment of sinusitis.
- In 2014, he completed a theoretical and practical course in endoscopic middle ear surgery (Prof. Presutti) at the ICLO Teaching and Research Center in Arezzo
- He designed and patented the instrument for minimally invasive selective adenoid surgery, which is manufactured and distributed worldwide (Quantum/Vesalius molecular quantum resonance, Telea, Vicenza), and personally codified the surgical technique in 2013.
- He personally developed and codified the minimally invasive surgical technique for endoscopic balloon dilation of the Eustachian tube using a contralateral angled endoscope (two hands-two nostrils), completing it with the Tubal Ostium Shrinkage (TOS) technique using a dedicated molecular quantum resonance handpiece in 2012
- He designed and patented the instrument for selective minimally invasive surgery of the tubal ostium in Eustachian tube dysfunction - MiTTO (Middle Turbinate and Tubal Ostium), produced and distributed worldwide (Quantum/Vesalius molecular quantum resonance, Telea, Vicenza) and personally codified the surgical technique in 2015.
- He personally developed and codified the minimally invasive surgical technique for tubal and paranasal sinus dilation using high-tech Low Profile and Shockwave balloons in 2021
- He designed and patented the steerable balloon minimally invasive dilation surgical instrument for the treatment of sinusitis and tubal dysfunction (ITC, Como) and personally codified the surgical

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technique in 2023.
- He designed and patented the blu LASER instrument for selective minimally invasive surgery of the nasal mucosa and oropharynx/larynx (RexpiroLaser), and personally codified the surgical technique in 2026.
- He designed and patented the dilation instrument for selective minimally invasive surgery of the paranasal sinuses (Thivasive DRB System), and personally codified the surgical technique in 2026.

- For student internships, he has agreements with the University of Sassari, Catania and UniCamillus

I declare that the information contained in this Curriculum Vitae is accurate and truthful.

Prof. Lino Di Rienzo Businco

List of Publications

1. Bellioni P, Artuso A, Di Rienzo L. The role of hyperreactivity in pharyngeal and laryngeal disorders. Consensus on Respiratory Diseases 1996, vol. 3, 2: 84-88
2. Maurizi M, Bellioni P, Di Rienzo L. Allergic and vasomotor rhinitis. Ed. Mediserve, Naples, 1996
3. Simonetti G, Maurizi M, Floris R, Salvatore C, Di Rienzo L, Bellioni Businco M. Normal macroscopic and radiological anatomy of the rhinosinusial structures and their variants. In "La Poliposi Nasale" Maurizi M, Pacini Editore, 1997
4. Maurizi M, Simonetti G, Bellioni Businco M, Di Girolamo S, Di Rienzo L, Floris R, Salvatore C. Rhinosinus structures: normal macroscopic and radiological anatomy. Text Atlas. Guido Gnocchi Ed., Naples, 1997
5. Di Girolamo S, Di Nardo W, Trivelli M, Di Rienzo L, Fenici R, Ruggieri MP. Preliminary study of cardiovascular autonomic function with non-allergic vasomotor rhinitis. In "Abstract book ERS & ISIAN meeting '98" Vienna, 1998
6. Artuso A, Di Rienzo L. Considerations on the influence of allergy in the maintenance of endotympanic catarrhal effusion in children. Consensus on Respiratory Diseases 1998, vol. 5, 2: 222-226
7. Addolorato G, Ancona C, Di Rienzo L, Graziosetto R, Capristo E, Gentiloni N, Maurizi M, Gasbarrini G. Assessment of levels of "state" and "trait" anxiety and depression in patients with allergic and vasomotor rhinitis. In "Proceedings of the XCIX National Congress of the Society of Internal Medicine," Bari, 1998

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8. Bellioni P, Di Rienzo L. Medical treatment of acute and chronic rhinopathies. In "Non-surgical treatments in professional otolaryngology practice," Ghirlanda M, Montecatini Terme, 1998
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11. Di Rienzo L, Di Rienzo A, Businco L. Nasal obstruction in children. Edit-Symposia Pediatrics and Neonatology 1999, 2, vol.VII: 229-250
12. Corradini C, d'Ecclesia A, Di Rienzo L. Transnasal endoscopic surgical approach in unilateral congenital choanal atresia. In "Abstracts" of the 86th National ENT-SIO Congress, p.246, May 1999
13. Paludetti G, Di Rienzo L, Guazzaroni M, Simonetti G, Maurizi M. Virtual CT laryngoscopy in neoplasms of the pharynx and larynx. Abstractband 83rd Annual Meeting of the Association of Southwest German Ear, Nose, and Throat Doctors. 10th Franco-German ENT Meeting in Heidelberg, September 23-25, 1999
14. Galli J, Di Rienzo L, D'Ecclesia A, Motta S, Di Girolamo S. Difficulties in the clinical, radiological, and therapeutic evaluation of early-stage rhino-orbital mucormycosis. Acta Otorinolaringologica Italica 2000,20(1):47-53
15. Di Rienzo L. Non-allergic non-infectious perennial rhinitis. Consensus on Resp Diseases 2000, vol.7, 1
16. Di Rienzo L, Bellioni P. Antileukotrienes in the prevention of post-surgical recurrence of nasal polyposis. In: Abstracts of the 87th SIO and Ch.CF Congress, Cagliari, May 24-27, 2000, 220
17. Di Rienzo L, Di Rienzo A. Current developments in the diagnosis and treatment of allergic ENT diseases in children. Journal of Pediatric Immunology and Allergology 2000, no. 1, 2-14
18. Bellioni P, Di Rienzo L, Artuso A. New frontiers in the diagnosis and treatment of ENT allergies. In "New frontiers in medicine and surgery in otolaryngology," Ghirlanda M, Salsomaggiore Terme, 2000
19. Ottaviani F, Di Rienzo L, Giordano M, Almadori G. Anatomic features of the glottic region. Eur Arch Oto-Rhino-Laryngol 2000, 257 (S1): 4
20. Ottaviani F, Picciotti P, Di Rienzo L, Exarchakos G, Di Girolamo S. On the treatment of chronic idiopathic subjective tinnitus. Acta Otorhinolaringol Ital 2000, 20, no. 2, Suppl 62
21. Di Rienzo L, Coen Tirelli G, D'Ottavi L, Artuso A, Di Rienzo A. New and simplified immunotherapy methods for rhino-sinus allergies. In: Abstract of Consensus Conference on nasal polyposis-IFOS, Siena October 5-7 2000, 65-66
22. Marsico C, Di Rienzo L, Coen Tirelli G. Nasal disorders and professional activities. Consensus on Respiratory Diseases 2000, vol. 7 no. 4: 386-88

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23. Di Rienzo L, Coen Tirelli G, Marsico C, Di Rienzo A, Cerqua N. New rhinostick method for the diagnosis of allergic rhinopathy in children: our experience. In: Abstract XVI National Congress of the Italian Society of Pediatric Otolaryngology, Saint Vincent, November 24-25, 2000
24. Di Rienzo L, Artuso A, Cerqua N. Antileukotrienes in the prevention of post-surgical recurrence of nasal polyposis in ASA syndrome. Acta Otorhinolaringol Ital. 2000; 20: 336-342
25. Di Rienzo L, Coen Tirelli G, Marsico C, Artuso A, Di Rienzo A. Efficacy of enzyme potentiated desensitization in the treatment of perennial rhinoconjunctivitis. In: Abstract book of 4th International Symposium on experimental rhinology & Immunology of the nose, London, February 14-16, 2001
26. Di Rienzo L. New therapeutic approaches to antileukotrienes. Consensus on Respiratory Diseases 2001, vol. 8, no. 1: 391-400
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33. D'Ottavi LR, Di Rienzo L, Cerqua N. Tracheotomy: surgical techniques and care for tracheotomized patients. Il Valsalva, 2001; 77,3:101-136
34. Motta S, Galli J, Di Rienzo L. Aerodynamic findings in esophageal voice. Arch Otolaryngol Head Neck Surg 2001; 127: 700-704
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