

FRANCESCA PIROLA, M.D.

Curriculum Vitae

FORMAZIONE

2018 – 2022: Specializzazione in Otorinolaringoiatria e Chirurgia Cervico-Facciale

c/o Humanitas University – IRCCS Humanitas Research Center, Rozzano (Milano),
Direttore: Prof. Giuseppe Spriano (70/70 *cum laude*)

2011 – 2017: Laurea Magistrale in Medicina e Chirurgia

c/o Università degli Studi di Milano (110/110 *cum laude*)

2006 – 2011: Diploma di Maturità

c/o Liceo Scientifico P. Frisi, Monza
(2009 – 2010: IV anno c/o Rockridge Secondary School, Vancouver, Canada)



ATTIVITÀ PROFESSIONALE

Nov. 2022 – presente: Assistente c/o U.O. di Otorinolaringoiatria e Chirurgia Cervico-Facciale

c/o IRCCS Istituto Clinico Humanitas, Rozzano (Milano), Direttore: Prof. Giuseppe Spriano

Nov. 2018 – Nov. 2022: Medico Specializzando nella U.O. di Otorinolaringoiatria e Chirurgia Cervico-Facciale

c/o IRCCS Istituto Clinico Humanitas, Rozzano (Milano), Direttore: Prof. Giuseppe Spriano. Partecipazione attiva alle attività di reparto, di sala operatoria (come primo/secondo/terzo operatore), di ambulatorio, nelle sezioni di: Rinologia, Chirurgia della Tiroide, Oncologia Testa-Collo.

Durante la Scuola di Specializzazione, ho trascorso due periodi di formazione all'estero:

- **Sett. 2022: Medico Frequentatore c/o University of Alberta Hospital, Edmonton (Canada)**
Observership all'Alberta Sinus Centre (Direttore e Supervisore: Prof. E.D. Wright)
- **Mar. – Ago. 2022: Chirurgo c/o Yonsei University – Severance Hospital, Seoul (Corea del Sud)**
Fellowship nel dipartimento di Otorinolaringoiatria e Chirurgia Cervico-Facciale, con focus principalmente sulla chirurgia robotica del distretto testa-collo (Direttore e Supervisore: Prof. S.H. Kim)

Mar. – Ott. 2018: Servizio Medico in Ambulanza c/o Mediolanum Soccorso – Milano

Sorveglianza medica ad eventi e in attività sportive amatoriali

Ott. 2017 – Gen. 2018: Abilitazione post-laurea alla professione medica

Mag. 2016 – Sett. 2017: Medico interno tesista

c/o U.O. Otorinolaringoiatria e Foniatria, Ospedale Luigi Sacco, Milano. Frequenza in reparto e sviluppo della tesi sperimentale: "Correlazione tra la performance deglutitoria, i parametri nutrizionali e le caratteristiche neurologiche nei pazienti con Malattia di Huntington"

2011 – 2016: Medico frequentatore durante il Corso di Laurea in Medicina e Chirurgia

c/o i reparti di Chirurgia Generale, Medicina Interna, Dermatologia, Neurologia, Pediatria, Ortopedia, Malattie Infettive, Medicina d'Urgenza.

1. Mozzanica F, Robotti C, Lechien JR, Pizzorni N, **Pirola F**, Mengucci A, Dell'Era A, Ottaviani F, Schindler A. "Vocal Tract Discomfort and Dysphonia in Patients Undergoing Empiric Therapeutic Trial with Proton Pump Inhibitor for Suspected Laryngopharyngeal Reflux." *J Voice*. 2018 Dec 15. doi:10.1016/j.jvoice.2018.11.002
2. Heffler E, Malvezzi L, **Pirola F**, Zięba N, Paoletti G, Mercante G, Spriano G, Canonica GW. "Treatable traits in chronic rhinosinusitis with nasal polyps." *Curr Opin Allergy Clin Immunol*. 2019 Aug;19(4):373-378. doi: 10.1097/ACI.0000000000000544
3. Pizzorni N, **Pirola F**, Ciammola A, Schindler A. Management of dysphagia in Huntington's disease: a descriptive review. *Neurol Sci*. 2020 Jun;41(6):1405-1417. doi: 10.1007/s10072-020-04265-0. Epub 2020 Jan 27. PMID: 31989345
4. Malvezzi L, **Pirola F**, De Virgilio A, Heffler E. Long-lasting clinical, radiological and immunological remission of severe nasal polyposis by means of 'reboot' surgery. *BMJ Case Rep*. 2020 Apr 2;13(4):e233726. doi: 10.1136/bcr-2019-233726. PMID: 32245837; PMCID: PMC7244279
5. Ferrel F, Mercante G, De Virgilio A, Cugini G, **Pirola F**, Gaino F, Malvezzi L, Spriano G, Colombo G. "L" shape technique for endoscopic sinus surgery: An alternative method. *Am J Otolaryngol*. 2020 Sep-Oct;41(5):102471. doi: 10.1016/j.amjoto.2020.102471. Epub 2020 Apr 1. PMID: 32273128.
6. De Virgilio A, Costantino A, Mondello T, Conti V, **Pirola F**, Russo E, Mercante G, Spriano G. Pre-Clinical Experience With the VITOM 3D and the ARTip Cruise System for Micro-Laryngeal Surgery. *Laryngoscope*. 2021 Jan;131(1):136-138. doi: 10.1002/lary.28675. Epub 2020 Apr 16. PMID: 32297976
7. Iocca O, Di Maio P, De Virgilio A, Pellini R, Golusiński P, Petrucci G, Zocchi J, **Pirola F**, Janczak R, Golusiński W, Spriano G, Weinstein GS, Rassekh CH. Lymph node yield and lymph node ratio in oral cavity and oropharyngeal carcinoma: Preliminary results from a prospective, multicenter, international cohort. *Oral Oncol*. 2020 Aug;107:104740. doi: 10.1016/j.oraloncology.2020.104740. Epub 2020 May 4. PMID: 32380357
8. Mercante G, Ferrel F, De Virgilio A, Gaino F, Di Bari M, Colombo G, Russo E, Costantino A, **Pirola F**, Cugini G, Malvezzi L, Morengi E, Azzolini E, Lagioia M, Spriano G. Prevalence of Taste and Smell Dysfunction in Coronavirus Disease 2019. *JAMA Otolaryngol Head Neck Surg*. 2020 Jun 18;146(8):1–6. doi: 10.1001/jamaoto.2020.1155. Epub ahead of print. PMID: 32556070
9. Ferrel F, Gaino F, Russo E, Di Bari M, **Pirola F**, Costantino A, Malvezzi L, De Virgilio A, Colombo G, Paoletti G, Morengi E, Canonica GW, Spriano G, Heffler E, Mercante G. Clinical presentation at the onset of COVID-19 and allergic rhinoconjunctivitis. *J Allergy Clin Immunol Pract*. 2020 Nov-Dec;8(10):3587-3589. doi: 10.1016/j.jaip.2020.08.009. Epub 2020 Aug 18. PMID: 32818700; PMCID: PMC7431330
10. Schindler A, Pizzorni N, Sassone J, Nanetti L, Castaldo A, Poletti B, Solca F, **Pirola F**, Lazzari L, Stramba-Badiale M, Rossi A, Silani V, Mariotti C, Ciammola A. Fiberoptic endoscopic evaluation of swallowing in early-to-advanced stage Huntington's disease. *Sci Rep*. 2020 Sep 17;10(1):15242. doi: 10.1038/s41598-020-72250-w. PMID: 32943712; PMCID: PMC7499207
11. **Pirola F**, Spriano G, Malvezzi L. Preliminary experience with exoscope in lacrimal surgery. *Eur Arch Otorhinolaryngol*. 2021 Jan;278(1):285-288. doi: 10.1007/s00405-020-06379-9. Epub 2020 Sep 28. PMID: 32989494.
12. Paoletti G, Melone G, Guida G, **Pirola F**, Malvezzi L, Pelaia C, Mariani A, Racca F, Malipiero G, Ferri S, Puggioni F, Spriano G, Canonica GW, Heffler E. Extended nitric oxide analysis in patients with chronic rhinosinusitis with nasal polyps, with or without associated asthma. *J Breath Res*. 2020 Nov 5;15(1):016007. doi: 10.1088/1752-7163/abc234. PMID: 33065563
13. COVIDSurg Collaborative; GlobalSurg Collaborative. Timing of surgery following SARS-CoV-2 infection: an international prospective cohort study. *Anaesthesia*. 2021 Jun;76(6):748-758. doi: 10.1111/anae.15458. Epub 2021 Mar 9. PMID: 33690889; PMCID: PMC8206995.

14. **Pirola F**, De Virgilio A, Di Maria A, Russo E, Di Bari M, Costantino A, Ferreli F, Mercante G, Colombo G, Spriano G, Malvezzi L. Applying the Exoscope to Lacrimal Surgery: Preliminary Experience. *ORL J Otorhinolaryngol Relat Spec*. 2021 Mar 18;1-6. doi: 10.1159/000513529. Epub ahead of print. PMID: 33735886
15. COVIDSurg Collaborative, GlobalSurg Collaborative. SARS-CoV-2 vaccination modelling for safe surgery to save lives: data from an international prospective cohort study. *Br J Surg*. 2021 Mar 24;znab101. doi: 10.1093/bjs/znab101. Epub ahead of print. PMID: 33761533; PMCID: PMC7995808
16. COVIDSurg Collaborative; GlobalSurg Collaborative. Effects of pre-operative isolation on postoperative pulmonary complications after elective surgery: an international prospective cohort study. *Anaesthesia*. 2021 Nov;76(11):1454-1464. doi: 10.1111/anae.15560. Epub 2021 Aug 9. PMID: 34371522.
17. COVIDSurg Collaborative; GlobalSurg Collaborative. SARS-CoV-2 infection and venous thromboembolism after surgery: an international prospective cohort study. *Anaesthesia*. 2022 Jan;77(1):28-39. doi: 10.1111/anae.15563. Epub 2021 Aug 24. PMID: 34428858; PMCID: PMC8652887.
18. **Pirola F**, Spriano G, Ferreli F, Russo E, Di Bari M, Giannitto C, De Virgilio A, Mercante G, Vinciguerra P, Di Maria A, Malvezzi L. Clinical outcome and quality of life of lacrimal sac mucocele treated via endoscopic posterior approach. *Am J Otolaryngol*. 2022 Jan-Feb;43(1):103244. doi: 10.1016/j.amjoto.2021.103244. Epub 2021 Sep 17. PMID: 34563801.
19. Baiardini I, Paoletti G, Mariani A, Malvezzi L, **Pirola F**, Spriano G, Mercante G, Puggioni F, Racca F, Melone G, Malipiero G, Ferri S, Canonica GW, Heffler E. Nasal Polyposis Quality of Life (NPQ): Development and Validation of the First Specific Quality of Life Questionnaire for Chronic Rhinosinusitis with Nasal Polyps. *Healthcare (Basel)*. 2022 Jan 28;10(2):253. doi: 10.3390/healthcare10020253. PMID: 35206869; PMCID: PMC8871881.
20. Ferreli F, **Pirola F**, Di Santo D, De Virgilio A, Spriano G, Mercante G. A critical analysis of the classifications of squamous cell carcinoma of the nasal vestibule. *Oral Oncol*. 2022 Apr 28;129:105880. doi: 10.1016/j.oraloncology.2022.105880. Epub ahead of print. PMID: 35490569.
21. Giombi F, Carrón-Herrero A, **Pirola F**, Paoletti G, Nappi E, Russo E, De Virgilio A, Mercante G, Canonica GW, Spriano G, Heffler E, Malvezzi L. Prevalence of familial link in patients affected by chronic rhinosinusitis with nasal polyposis. *Int Forum Allergy Rhinol*. 2022 Jun 20. doi: 10.1002/alr.23049. Epub ahead of print. PMID: 35722664.
22. **Pirola F**, Leone F, Di Bari M, Salamanca F, Bianchi A, Catalani M, Colombo G. 3D 4K exoscope in snore surgery simulation: pre-clinical experience. *Sleep Breath*. 2022 Jul 28. doi: 10.1007/s11325-022-02684-1. PMID: 35900616.
23. Paoletti G, Casini M, Malvezzi L, **Pirola F**, Russo E, Nappi E, Quintina Muci G, Montagna C, Messina MR, Ferri S, Racca F, Lamacchia D, Cataldo G, Puggioni F, De Virgilio A, Ferreli F, Mercante G, Spriano G, Canonica GW, Heffler E. Very rapid improvement of extended nitric oxide parameters, associated with clinical and functional betterment, in patients with chronic rhinosinusitis with nasal polyps (CRSwNP) treated with Dupilumab. *J Investig Allergol Clin Immunol*. 2022 Sept 1:0. doi: 10.18176/jiaci.0851. PMID: 36059226.
24. **Pirola F**, Giuseppe Mercante, Elena Russo, Caterina Giannitto, Luca Malvezzi, Fabio Ferreli, Giuseppe Spriano, Umberto Cariboni, Armando De Virgilio. Three-dimensional exoscope-assisted single-stage tracheal resection. *Head & Neck*. 2022 Aug; 1- 5. doi:10.1002/hed.27188
25. **Pirola F**, Pace, G.M., Giombi, F., Heffler, E., Paoletti, G., Nappi, E., Sanità, W., Giulietti, G., Giunta, G., Ferreli, F., Mercante, G., Spriano, G., Canonica, G.W. and Malvezzi, L. (2022 Sept), Outcomes of Non-Mucosa Sparing Endoscopic Sinus Surgery (Partial Reboot) in Refractory Chronic Rhinosinusitis with Nasal Polyposis: An Academic Hospital Experience. *The Laryngoscope*. <https://doi.org/10.1002/lary.30422>
26. Costantino, A., Festa, B. M., Kim, S.-H., Baik, F. M., Wang, C.-C., **Pirola F**, Malvezzi, L., Spriano, G., Mercante, G., & De Virgilio, A. (2022). Complications of pectoralis major myo-cutaneous flap, anterolateral thigh flap and radial forearm free flap after total laryngectomy with partial pharyngectomy: A systematic review and network meta-analysis. *Microsurgery*, 1– 11. <https://doi.org/10.1002/micr.30977>

Studi prospettici sono attualmente in corso.

CAPITOLI DI LIBRI

1. “Exoscope Assisted Dacryocystorhinostomy”, Chapter 9 – Malvezzi L and **Pirola F**, in *HT-Exoscope Assisted Surgery in Otorhinolaryngology*. De Virgilio A et al (Elsevier) 2021.
2. “Endoscopy of the upper aerodigestive tract and imaging. Classification of severity and prognostic index”, Chapter 4 – in “*La rinosinusite con poliposi nasale. Modello d’infiammazione cronica delle vie respiratorie. Approccio terapeutico al paziente*” (*Rhinosinusitis with nasal polyps. Model of chronic inflammation of the respiratory tract. Therapeutic approach to the patient*). Malvezzi L et al (Red Edizioni) 2020.

PRESENTAZIONI / POSTER a congressi nazionali e internazionali

- May 22-24, 2019, *Rimini, Italy. 106th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “CRSwNP. Our preliminary experience in two patients treated with monoclonal antibodies.”
- September 9-10, 2019, *IRCCS Humanitas Research Center (Milan), Italy. First STAGR meeting for Family Medicine Practitioners*. “The current scenario of chronic rhinosinusitis”. Pirola F
- September 23, 2019, *IRCCS Humanitas Research Center (Milan), Italy. Allergy and Asthma School*. “Step by step endoscopic evaluation of the nasal cavities. Topographic diagnosis of rhinosinusitis and nasal polyposis”. Pirola F
- November 27-28, 2020, *Academy AUORL – Meeting with the Italian Residents*. “Reboot Surgery: an extensive approach for recalcitrant chronic rhinosinusitis with nasal polyps”
- September 2020, *SLAIC Channel*. “Long-lasting clinical, radiological and immunological remission of severe nasal polyposis by means of reboot surgery”. Presentation of an emblematic case report.
- May 26-29, 2021, *Milan, Italy. 107th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Reboot surgery: an extensive approach for recalcitrant chronic rhinosinusitis with nasal polyps”. Pirola F et al.
- May 26-29, 2021, *Milan, Italy. 107th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Clinical Experience with the VITOM 3D and the ARTip Cruise System for Micro-Laryngeal Surgery.” Russo E et al.
- May 26-29, 2021, *Milan, Italy. 107th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Prevalence of Taste and Smell Dysfunction in Coronavirus Disease 2019”. Mercante G et al.
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Personalized Dacryocystorhinostomy on the Uncinate Process: A Retrospective Study and a Classification Proposal”. Russo E, Pirola F et al.
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “ENT-Odontologist Interdisciplinary management of patients with odontogenic sinusitis”. Catalani M et al.
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Our experience in applying VITOM 3D to lacrimal surgery”. Pace GM, Russo E, Pirola F et al.
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Retrospective analysis of familiar penetrance in CRSwNP in the Italian population”. Giombi F, Pirola F et al.
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “The treatment of “T” and “N” in major salivary gland tumors”. Mercante G et al
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “The “adjuvant” role of sinus surgery in EGPA patients treated with Mepolizumab”. Giombi F, Pirola F et al.

- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “The rapid improvement of Quality of Sleep, Insomnia and Sleepiness in CRSwNP patients treated with Dupilumab”. Giombi F, Pirola F et al.
- May 25-28, 2022, *Rome, Italy. 108th SIO Congress (Italian Society of Otolaryngology, National Congress)*. “Can nasal cytology be considered a non-invasive and cost-effective method for the phenotypization of Type-2 related CRSwNP patients?”. Giombi F, Pirola F et al.
- October 29-2, 2022, *Milan, Italy. Congress of European Otorhinolaryngology - Head and Neck Surgery*. “Survival and prognostic factors of squamous cell carcinoma of the nasal vestibule: retrospective analysis of a multicentric cohort”. F. Pirola et al.
- October 29-2, 2022, *Milan, Italy. Congress of European Otorhinolaryngology - Head and Neck Surgery*. “The role of clinical and biochemical biomarkers for the indication of and response to biologicals”. F. Pirola

SOCIETÀ SCIENTIFICHE, CERTIFICAZIONI

2022 – presente: membro della Accademia Italiana di Rinologia (IAR)

2019 – presente: membro della Società Italiana di Otorinolaringoiatria e Chirurgia Cervico-Facciale (SIOeCHCF)

Ottobre 2016: IELTS Certificate in English, CEFR Level C1 (punteggio 8.0/9.0)

Febbraio 2018: Certificato Nazionale di Abilitazione alla Professione Medica e Chirurgica

Marzo 2018: *DAN Europe, Milan*, Licenza Istruttore BLS-D (Basic Life Support and Defibrillation)

Data ultimo aggiornamento: 22 novembre 2022

Firma: 

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 e del GDPR (Reg. UE 2016/679)