CURRICULUM VITAE

Dott.ssa Carlotta Nedbal

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Informazioni personali:

Laurea in Medicina e Chirurgia: 10 Luglio 2020

Specializzazione in Urologia: 26 Gennaio 2026

Informazioni Accademiche:

Associate Member of the EAU Section of Endourology – Working Group on Technology Monitoring

Member of the Editorial Board – Journal of Clinical Urology

Iscrizione a registri professionali:

Ordine Provinciale dei Medici Chirurghi e degli Odontoiatri di Milano – OMCeOMi
Numero di registrazione: 47641

Educazione ed esperienze lavorative:

07/2025 – ad oggi	U/O Urologia IRCCS San Gerardo dei Tintori Monza, Italy
03/2024 – 06/2025	U/O Urologia ASST Sacco-Fatebenefratelli Milano, Italy
03/2023 – 02/2024	Urology Fellowship – Prof B. Somani University Hospital of Southampton, NHS Trust – UHS Southampton, UK
01/2021 – 01/2026	Scuola di Specializzazione in Urologia – Prof. AB Galosi Università Politecnica delle Marche – UNIVPM

	Ancona, Italy
30/10/2020	Iscrizione all'Ordine Ordine Provinciale dei Medici Chirurghi e degli Odontoiatri di Milano Milan, Italy Reg. num. 47641
08 – 09/2018	Frequenza medica volontaria Uganda Martyrs' Hospital Lubaga Kampala, Uganda
2014 – 2020	Laurea in Medicina e Chirurgia Università degli Studi di Milano – UNIMI Milan, Italy
2014	Diploma di Maturità Liceo Scientifico Statale Vittorio Veneto Milan, Italy

Memberships:

Associate Member of the EAU Section of Endourology – Working Group on Technology Monitoring

OMCeOMi – Ordine Provinciale dei Medici Chirurghi e degli Odontoiatri di Milano

GMC – General Medical Council

SIU – Società Italiana di Urologia

EAU – European Association of Urology

SIU – Société Internationale d'Urologie

Lingue parlate e scritte:

Italiano:	Madrelingua
Inglese:	Ottima padronanza della lingua parlata e scritta
Spagnolo:	Buona padronanza della lingua parlata e scritta

Publicazioni scientifiche:

Per un elenco dettagliato e aggiornato delle pubblicazioni, visitare il sito https://www.researchgate.net/profile/Carlotta-Nedbal/publications . Di seguito la lista delle pubblicazioni scientifiche su riviste internazionali come primo autore.

1. **Nedbal C,** Gauhar V, Gite S, et al. Efficacy and safety of ureteroscopy in children with lower pole renal stones: a machine learning predictive model from the EAU section of endourology**.** *World J Urol*. 2025. doi: 10.1007/s00345-025-06095-1

2. **Nedbal C**, Gauhar V, Adithya S, et al. Flexible ureteroscopy in renal anomalies: an explainable AI model for surgical outcome prediction from EAU endourology. *World J Urol*. 2025;43(1):530. Published 2025 Sep 2. doi:10.1007/s00345-025-05904-x.

3. **Nedbal C**, Gauhar V, Yuen SKK, et al. Quadrifecta during retrograde intrarenal surgery: suction, irrigation, intrarenal temperature and pressure: achieving best clinical outcomes - an overview from EAU Endourology. *Ther Adv Urol*. 2025;17:17562872251335268. Published 2025 Apr 29. doi:10.1177/17562872251335268

4. **Nedbal C**, Gauhar V, Adithya S, et al. Predictors and associations of complications in ureteroscopy for stone disease using AI: outcomes from the FLEXOR registry. *Urolithiasis*. 2025;53(1):89. Published 2025 May 14. doi:10.1007/s00240-025-01763-8

5. **Nedbal C**, Gauhar V, Adithya S, et al. A novel predictive method for URS and laser lithotripsy using machine learning and explainable AI: results from the FLEXOR international database. World J Urol. 2025;43(1):294. Published 2025 May 12. doi:10.1007/s00345-025-05551-2

6. **Nedbal C**, Gauhar V, Herrmann T, et al. Simulation-based training in minimally invasive surgical therapies (MIST): current evidence and future directions for artificial intelligence integration-a systematic review by EAU endourology. World J Urol. 2025;43(1):448. Published 2025 Jul 18. doi:10.1007/s00345-025-05834-8

7. **Nedbal C**, Geraghty R, Tramanzoli P, et al. Cost and Effectiveness of Flexible Ureteroscopy Versus Shockwave Lithotripsy for Urolithiasis: A Systematic Review and Meta-analysis by the European Association of Urology Endourology Section. Eur Urol *Focus*. Published online July 8, 2025. doi:10.1016/j.euf.2025.06.004

8. **Nedbal C**, Cacciamani G, De Backer P, et al. Artificial Intelligence for Endoscopic Stone Surgery: What's Next? An Overview from the European Association of Urology Section of Endourology. Eur Urol Focus. 2025 Mar 3:S2405-4569(25)00053-7. doi: 10.1016/j.euf.2025.02.013. Epub ahead of print. PMID: 40037971.

9. **Nedbal C**, Naik N, Davis N, et al. Comprehensive consent in urology using decision aids, leaflets, videos and newer technologies: empowering patient choice and shared decision-making. Therapeutic Advances in Urology. 2024;16. doi:10.1177/17562872241301729

10. **Nedbal C**, and Somani BK. (2024), Lower pole stones 1–2 cm: navigating treatment choices. BJU Int. https://doi.org/10.1111/bju.16589

11. **Nedbal C,** Yuen SKK, Akram M et al. First clinical evaluation of a flexible digital ureteroscope with direct in scope suctioning system (Pusen DISS 7.5Ch): prospective multicentric feasibility study. World J Urol 42, 560 (2024). https://doi.org/10.1007/s00345-024-05275-9

12. **Nedbal C**, Yuen KKS, Tramanzoli P, et al. Understanding the role of surveys in modern urology: an insight into survey trends over the decades. CentEuropean J Urol. 2024; 77. doi:10.5173/ceju.2024.89 [Epub ahead of print]

13. **Nedbal C**, Mahobia N, Browning D, Somani BK. Variability in Profiles and Prevalences of Gram-Negative Bacteria in Urinary Tract Infections: A Population-Based Analysis. J. Clin. Med. 2024, 13, 5311. https://doi.org/10.3390/jcm13175311

14. **Nedbal C,** Tramanzoli P, Castellani D, Gauhar V, Gregori A, Somani B. Cost-effectiveness and health economics for ureteral and kidney stone disease: a systematic review of literature. Curr Opin Urol. Published online August 20, 2024. doi:10.1097/MOU.0000000000001216

15. **Nedbal C,** Adithya S, Gite S, Naik N, Griffin S, Somani BK. A Machine Learning Predictive Model for Ureteroscopy Lasertripsy Outcomes in a Pediatric Population-Results from a Large Endourology Tertiary Center. J Endourol. Published online August 12, 2024. doi:10.1089/end.2024.0120

16. **Nedbal C,** Somani BK. Reply to Sandra P. García Nader, Cesar A. Díaz Ritter, and Valentina Garcia Perez's Letter to the Editor re: Carlotta Nedbal, Patrick Juliebø-Jones, Eamonn Rogers, et al. Improving Patient Information and Enhanced Consent in Urology: The Impact of Simulation and Multimedia Tools. A Systematic Literature Review from the European Association of Urology Patient Office. Eur Urol. In press. https://doi.org/10.1016/j.eururo.2024.04.009. Eur Urol. Published online August 17, 2024. doi:10.1016/j.eururo.2024.08.019

17. **Nedbal C.** Minimally invasive surgical therapies (MISTs) for benign prostatic hyperplasia: current insights and future directions – Interview with Prof. Francesco Greco. Uro-Technology Journal, 2024, 8(3): XX-XX. doi: 10.31491/UTJ.2024.09.XXX

18. **Nedbal C,** Adithya S, Naik N, Gite S, Juliebø-Jones P, Somani BK. Can Machine Learning Correctly Predict Outcomes of Flexible Ureteroscopy with Laser Lithotripsy for Kidney Stone Disease? Results from a Large Endourology University Centre. European Urology Open Science (2024), 64, 30-37. https://doi.org/10.1016/j.euros.2024.05.004

19. **Nedbal C**, Juliebø-Jones P, Rogers E, N'Dow J, Ribal M, Rassweiler J, Liatsikos E, Van Poppel H, Somani BK. Improving Patient Information and Enhanced Consent in Urology: The Impact of Simulation and Multimedia Tools. A Systematic Literature Review from the European Association of Urology Patient Office, Eur Urol (2024), https://doi.org/10.1016/j.eururo.2024.04.009

20. **Nedbal C**, Bres-Niewada E, Dybowski B, Somani BK. The impact of artificial intelligence (AI) in revolutionizing all aspects of urological care: a glimpse in the future. Cent European J Urol. 2023; doi: 10.5173/ceju.2023.255 [Epub ahead of print]

21. **Nedbal C,** Mahobia N, Browning D, Somani BK. Gram negative bacteria related urinary tract infections: spectrum of antimicrobial resistance over 9 years in a University tertiary referral Hospital. Therapeutic Advances in Infectious Disease. 2024;11. doi:10.1177/20499361241228342

22. **Nedbal C**, Castellani D, De Stefano V, Giulioni C, Nicoletti R, Pirola G, Teoh JY, Elterman D, Somani BK, Gauhar V. Will Aquablation Be the New Benchmark for Robotic Minimally Invasive Surgical Treatment for Benign Prostatic Hyperplasia? Eur Urol Focus. 2023 Dec 29:S2405-4569(23)00293-6. doi: 10.1016/j.euf.2023.12.001. Epub ahead of print. PMID: 38160171.

23. **Nedbal C**, Naik N, Castellani D, Gauhar V, Geraghty R, Somani BK. ChatGPT in urology practice: revolutionizing efficiency and patient care with generative artificial intelligence. Current Opinion in Urology ():10.1097/MOU.0000000000001151, November 14, 2023. | DOI: 10.1097/MOU.0000000000001151

24. **Nedbal C**, Cerrato C, Jahrreiss V, Pietropaolo A, Galosi AB, Castellani D, Somani BK. Trends of 'Artificial Intelligence, Machine Learning, Virtual Reality and Radiomics in Urolithiasis' over the last 30 years (1994-2023) as published in the literature (PubMed): a Comprehensive review. J Endourol. 2023 Oct 26. doi: 10.1089/end.2023.0263. Epub ahead of print. PMID: 37885228.

25. **Nedbal C**, Jahrreiss V, Cerrato C, Castellani D, Kamal WK, Hameed Z, et al. Current role of endoscopic combined intrarenal surgery in the management of renal stones: A scoping review. Indian J Urol 2023;39:274-84.

26. **Nedbal C**, Cerrato C, Jahrreiss V, et al. The role of ‘artificial intelligence, machine learning, virtual reality, and radiomics’ in PCNL: a review of publication trends over the last 30 years. Therapeutic Advances in Urology. 2023;15. doi:10.1177/17562872231196676

27. **Nedbal C**, Jahrreiss V, Cerrato C, Pietropaolo A, Galosi A, Veneziano D, Kallidonis P, Somani BK. Role of simulation in kidney stone disease: A systematic review of literature trends in the 26 years. World J Nephrol 2023; 12(4): 104-111. doi: 10.5527/wjn.v12.i4.104

Poster e video presentati in congressi internazionali e nazionali (come primo autore):

1. SIU 2025, Sorrento – Predicting outcomes of ureteroscopy in anomalous kidneys. Is machine learning based analysis able to foresee efficacy and safety?

2. EAU25 40th Annual Congress, Madrid – Can multimedia tools improve patients' understanding and satisfaction? A preliminary prospective study on video enhanced consent effects in patients undergoing ureteroscopy for urolithiasis

3. EAU25 40th Annual Congress, Madrid – Machine Learning Models for Predicting Outcomes in Flexible Ureteroscopy: Insights from the FLEXOR International Registry – A study from the section of EAU Endourology

4. EAU25 40th Annual Congress, Madrid – AI-Driven Analysis of Predictors and Infectious Complications in Ureteroscopy for Stone Disease: Insights AI-Driven Analysis of Predictors and Infectious Complications in Ureteroscopy for Stone Disease: Insights from the FLEXOR Registry – A study by the section of EAU Endourology

5. CLU 2025, Milan – A novel predictive method for URS and laser lithotripsy using Machine Learning and Explainable AI: results from the FLEXOR international database

6. SIU 2024 Bari, – Is Machine Learning (ML) reliable to correctly predict outcomes of flexible ureteroscopy laser lithotripsy (fURSL) for kidney stone disease?

7. SIU 2024, Bari – Improving patient information and enhanced consent in Urology: The impact of simulation and multimedia tools

8. BAUS National Congress 2024 – Multi-centre study comparing outcomes of retrograde intrarenal surgery (RIRS) using traditional suction ureteral access sheath (SUAS) and flexiblenavigable suction UAS (FANS).

9. BAUS National Congress 2024 – 24 hours after Retrograde intrarenal surgery for solitary renal calculi using a Flexible And Navigable Suction access sheath (FANS): Results from a prospective global multicentre study by the EAU section on urolithiasis (EULIS).

10. BAUS National Congress 2024 – Revolutionizing patient information and enhanced consent in Urology - The impact of simulation and multimedia tools.

11. BAUS National Congress 2024 – A Machine Learning (ML) Predictive Model for Ureteroscopy lasertripsy (URSL) Outcomes in a Paediatric Population – Results from a large Endourology Tertiary Centre.

12. BAUS National Congress 2024 – Gram Negative Bacteria related Urinary Tract Infections: spectrum of antimicrobial resistance over 9 years in a University tertiary referral Hospital.

13. BAUS Southcentral Meeting 2024, Southampton – Trends of 'Artificial Intelligence, Machine Learning, Virtual Reality and Radiomics in Urolithiasis' over the last 30 years (1994–2023).

14. Urotech 2024, Wien – Is the application of simulation in urolithiasis increasing? A review of literature trends in the 26 years.

15. Urotech 2024, Wien – Endoscopic Combined Intrarenal Surgery (ECIRS) in the management of complex renal stones.

16. Urotech 2024, Wien – Analysis of 4216 patients of the Refinement in Endoscopic Anatomical enucleation of Prostate (REAP) registry on outcomes of the Thulium Fiber Laser vis a vis High Power Holmium for Anatomical Endoscopic Enucleation of Prostate (AEEP) in a real world multicenter practice.

17. Urotech 2024, Wien – Aquablation: A new benchmark for BPH management?

18. SIU 2021, Riccione – Three-dimensional versus two-dimensional laparoscopic pyeloplasty in adults: a two-center comparative study.

Premi:

- ESUT Best Abstract award 2024 (first prize) – Urotech 2024

- Certificate for Academic Excellence – ESU/Weill Cornell Masterclass in Urology 2024

Revisore per le seguenti riviste scientifiche:

- EUROS – European Urology Open Science

- WJU – World Journal of Urology

- TAIU – Therapeutic Advances in Urology

- BCM Urology
- Urology Journal
- Scientific Reports
- TAID – Therapeutic Advances in Infectious Diseases

Docente nei seguenti corsi/congressi:

- ESU Course Modern Treatment modalities of Urolithiasis (Virtual ESU course during the Scientific Society of Urologists of Tajikistan – 31 October, Dushanbe, Tajikistan) – "Ureteroscopy set-up and the role of suction technology in treatment of stones"
- La Patologia Prostatica: IPB e Ca Prostatico (18 October 2025, Monza, Italy) – "Innovations in surgical treatment"
- Endourology Academy Webinar: Artificial Intelligence in Endourology (5th April 2025) – Presenter of: "Diagnosis and treatment planning"
- 40th Annual EAU Congress (EAU25, 21-24 March 2025, Madrid, Spain) – Live surgery moderator
- Fight School Urology (SUN 2024, 8-9 March 2024, Genova, Italy) – Young Discussant of: "Ureteric lesion during URS (iatrogenic stenosis)"
- Incontri Monotematici Urologici (IMU – Leonardo Medica, 5th October 2024, Milan, Italy) - Presenter of: "La Sindrome Post-Disostruttiva nell'IPB"