



Curriculum vitae
MATTEO MANFREDI

Personal details

Born in Torino, June 30th 1985

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Educations

HIGH SCHOOL

- 1999 - 2004 Liceo Scientifico “Copernico” – Torino, Italy

UNIVERSITY

- 2004 - 2010 Degree in Medicine and Surgery – Medical School of Torino, Italy. Medical degree with maximum marks (110/110 cum laude), October 19, 2010. Thesis: “Carcinoma prostatico: ruolo dei margini chirurgici positivi sulla ripresa biochimica di malattia in pazienti sottoposti a prostatectomia radicale laparoscopica” (Prostate carcinoma: impact of surgical margin status on biochemical relapse in patients underwent laparoscopic radical prostatectomy), made in collaboration with the Division of Urology (Prof. F. Porpiglia), San Luigi Hospital –University of Turin. The thesis was considered worthy of publication
- Residency in Urology at the Medical School of Turin with maximum marks (70/70 cum laude), July 4, 2016. Thesis: “Confronto tra percorso diagnostico con risonanza magnetica prostatica multiparametrica e percorso standard: risultati di uno studio prospettico randomizzato in pazienti in attesa di prima biopsia per sospetto di carcinoma prostatico” (Multiparametric magnetic resonance imaging for prostate cancer diagnosis), made in collaboration with the Division of Urology (Prof. F. Porpiglia), San Luigi Hospital – University of Turin

Professional experiences and current position

September 2008 – March 2009

- Winner of an “Erasmus Programme” Scholarship at Universidad de Salamanca (Spain)

June 2010 – September 2010



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- Winner of an “Erasmus Placement Training Programme” Scholarship at Division of Urology, University Hospital Gasthuisberg of the Katholieke Universiteit Leuven (Belgium), Chief: Prof. H. Van Poppel

March 2011 – June 2011

- Internee at the Division of Urology, San Luigi Hospital – Orbassano (Turin) - University of Turin. Chief: Prof. R. M. Scarpa

June 2011 – June 2016

- Resident in Urology at the Medical School of Turin. Division of Urology, San Luigi Hospital – Orbassano (Turin) - University of Turin. Chief: Prof. F. Porpiglia

November 2015 – December 2015

- Full time observer at the Division of Urology, Centre Hospitalier Régional Universitaire di Lille (France), Chief: Prof. A. Villers

From June 2012 to September 2016

- Medical doctor at emergency medical care – ASL TO3, Torino (Italy)

From September 2016 to January, 02nd 2018

- Urologist at the Division of Urology, San Luigi Hospital – Orbassano (Turin) - University of Turin. Chief: Prof. F. Porpiglia

From January, 02nd 2018, to December, 28th 2021

- Full time MD at the Division of Urology, San Luigi Hospital – Orbassano (Turin) - University of Turin. Chief: Prof. F. Porpiglia

From December, 28th 2018, to December, 28th 2021

- Ricercatore universitario a tempo determinato di tipo B (art. 24 c.3-b L. 240/10), at the Oncology Department - University of Turin

From December, 28th 2021

- Associate Professor (Professore di II fascia – ex Associato), at the Oncology Department - University of Turin

Participation to Directive Boards of Scientific Societies and/or Institutions

Member of the:

- “Società Italiana di Urologia (Italian Society of Urology) (SIU)
- European Association of Urology (EAU)

Journals

- Member of the Editorial Committee of Minerva Urology and Nephrology - Minerva Urologica e Nefrologia (MUN) - ed. Minerva, from July 1st 2016
- Peer-reviewer of more than 15 international journals



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Honors

- He won, within a collaboration group between Division of Urology - San Luigi Gonzaga Hospital – Orbassano, Torino and Department of Molecular Biotechnology - Torino (University of Turin), the Investigator Grant 2013 of the AIRC (Italian Cancer Research Association) with the project entitled "Dual MRI-Optical imaging agents in prostatectomy"
- He is co-author of more than 8 articles, posters or videos that have received awards at national and international conferences

Teaching activity

Co-lecturer in I and II level school courses at University of Turin:

- “Urology” course (SCB0214), Medicine and Surgery Degree Programme, 1.6 CFU (11 hours), from 2019 to present. Student evaluation on teaching > 95.92%
- “Urologia femminile” (Female urology) course (SCH0771), Residency in Urology programme, 1 CFU (7 hours), from 2020 to present

Co-lecturer in III level school course at University of Turin:

- “Chirurgia robotica e laparoscopica avanzata in urologia” Master (M21078), Oncology Department

Advanced teaching

- Use of Moodle, a learning management system (LMS) for the management of study courses
- Use of Wooclap, an interactive electronic platform used to create surveys and questionnaires and to build interactive clinical cases for students

Simulation teaching

- Since January 2020 he has been involved in simulation teaching at the Advanced Medical Simulation Center of the University of Turin - San Luigi Gonzaga Hospital in Orbassano (TO). He attended two training courses held by Accurate: basic start-up course, to learn the use of advanced simulators and skill trainers; intensive theoretical-practical training course for simulation instructors
- Since April 2021 he is a member of the Scientific Committee of the Center for Advanced Medical Simulation of the University of Turin - San Luigi Gonzaga Hospital in Orbassano (TO)

Research main topics



His scientific activity is documented by more than 87 scientific publications (full papers) and more than 8 book chapters. The main fields of interest are: uro-oncology, laparoscopy and robot-assisted surgery, magnetic resonance imaging of prostate, prostate biopsy, urolithiasis

Main projects as PI

He participated as a co-experimenter to more than 24 clinical studies approved by the Ethic Committee of San Luigi Gonzaga Hospital – Orbassano, Torino; and IRCCS Candiolo, Torino

Bibliometry (2012-present) (www.scopus.com)

- Number of documents: 87
- Number of citations: 1604
- H index: 20

10 best publications

- 1) Robot-assisted-radical-cystectomy with total intracorporeal Y neobladder: Analysis of postoperative complications and functional outcomes with urodynamics findings. Checcucci E, **Manfredi M**, Sica M, Amparore D, De Cillis S, Volpi G, Granato S, Carbonaro B, Piramide F, Meziere J, Verri P, Piana A, Poggio M, Cossu M, Fiori C, Porpiglia F. Eur J Surg Oncol. 2022 Mar;48(3):694-702. doi:10.1016/j.ejso.2021.12.014.
- 2) Laparoscopic simple prostatectomy: complications and functional results after 5 years of follow-up. **Manfredi M**, Fiori C, Peretti D, Piramide F, Checcucci E, Garrou D, Amparore D, De Luca S, Di Dio M, Scarpa RM, Porpiglia F. Minerva Urol Nefrol. 2019 Oct 10. doi: 10.23736/S0393-2249.19.03526-4. [Epub ahead of print] PubMed PMID: 31619032.
- 3) Total anatomical reconstruction during robot-assisted radical prostatectomy: focus on urinary continence recovery and related complications after 1000 procedures. **Manfredi M**, Checcucci E, Fiori C, Garrou D, Aimar R, Amparore D, De Luca S, Bombaci S, Stura I, Migliaretti G, Porpiglia F. BJU Int. 2019 Sep;124(3):477-486. doi: 10.1111/bju.14716. Epub 2019 Mar 15. PubMed PMID: 30801887.
- 4) Radiological Wheeler staging system: a retrospective cohort analysis to improve the local staging of prostate cancer with multiparametric MRI. Russo F, **Manfredi M**, Panebianco V, Armando E, De Luca S, Mazzetti S, Giannini V, Mele F, Bollito E, Appendino E, Regge D, Porpiglia F. Minerva Urol Nefrol. 2019 Jun;71(3):264-272. doi: 10.23736/S0393-2249.19.03248-X. Epub 2019 Jan 17. PMID: 30654601.



- 5) Use of chitosan membranes after nerve-sparing radical prostatectomy improves early recovery of sexual potency: results of a comparative study. Porpiglia F, **Manfredi M**, Checcucci E, Garrou D, De Cillis S, Amparore D, De Luca S, Fregnan F, Stura I, Migliaretti G, Fiori C. BJU Int. 2019 Mar;123(3):465-473. doi: 10.1111/bju.14583. Epub 2018 Nov 1. PubMed PMID: 30303604.
- 6) Technical details to achieve perfect early continence after radical prostatectomy. **Manfredi M**, Fiori C, Amparore D, Checcucci E, Porpiglia F. Minerva Chir. 2018 Jul 23. doi: 10.23736/S0026-4733.18.07761-1. [Epub ahead of print] PMID: 30037176
- 7) Multiparametric prostate MRI: technical conduct, standardized report and clinical use. A narrative review. **Manfredi M**, Mele F, Garrou D, Walz J, Fütterer JJ, Russo F, Vassallo L, Villers A, Emberton M, Valerio M. Minerva Urol Nefrol. 2018 Feb;70(1):9-21. doi: 10.23736/S0393-2249.17.02846-6. Epub 2017 May 11. PMID: 28494579
- 8) Diagnostic Pathway with Multiparametric Magnetic Resonance Imaging Versus Standard Pathway: Results from a Randomized Prospective Study in Biopsy-naïve Patients with Suspected Prostate Cancer. Porpiglia F, **Manfredi M**, Mele F, Cossu M, Bollito E, Veltri A, Cirillo S, Regge D, Faletti R, Passera R, Fiori C, De Luca S. Eur Urol. 2017 Aug;72(2):282-288. doi: 10.1016/j.eururo.2016.08.041. Epub 2016 Aug 27. PMID: 27574821.
- 9) MRI/TRUS fusion software-based targeted biopsy: the new standard of care? **Manfredi M**, Costa Moretti TB, Emberton M, Villers A, Valerio M. Minerva Urol Nefrol. 2015 Sep;67(3):233-46. Epub 2015 May 27. PMID: 26013952.
- 10) Randomised controlled trial comparing laparoscopic and robot-assisted radical prostatectomy. Porpiglia F, Morra I, Lucci Chiarissi M, **Manfredi M**, Mele F, Grande S, Ragni F, Poggio M, Fiori C. Eur Urol. 2013 Apr;63(4):606-14. doi: 10.1016/j.eururo.2012.07.007. Epub 2012 Jul 20. PMID: 22840353.

15 more relevant publication in the last 5 yrs (2018-2022)

1. A prospective randomized controlled trial comparing target prostate biopsy alone approach vs. target plus standard in naïve patients with positive mpMRI. Porpiglia F, Checcucci E, De Cillis S, Piramide F, Amparore D, Piana A, Volpi G, Granato S, Zamengo D, Stura I, Alladio E, Migliaretti G, DE Luca S, Bollito E, Gned D, DI Dio M, Autorino R, **Manfredi M**, Fiori C. Minerva Urol Nephrol. 2023 Feb;75(1):31-41. doi: 10.23736/S2724-6051.22.05189-8. Epub 2023 Jan 10. PMID: 36626117.
2. The impact of 3D models on positive surgical margins after robot-assisted radical prostatectomy. Checcucci E, Pecoraro A, Amparore D, De Cillis S, Granato S, Volpi G, Sica M, Verri P, Piana A, Piazzolla P, **Manfredi M**, Vezzetti E, Di Dio M, Fiori C, Porpiglia F; Uro-technology and SoMe Working Group of the Young Academic



- Urologists Working Party of the European Association of Urology. *World J Urol.* 2022 Sep;40(9):2221-2229. doi: 10.1007/s00345-022-04038-8. Epub 2022 Jul 5. PMID: 35790535.
3. Development of a novel nomogram to identify the candidate to extended pelvic lymph node dissection in patients who underwent mpMRI and target biopsy only. Fiori C, Checcucci E, Stura I, Amparore D, De Cillis S, Piana A, Granato S, Volpi G, Sica M, Piramide F, Verri P, **Manfredi M**, De Luca S, Autorino R, Migliaretti G, Porpiglia F. *Prostate Cancer Prostatic Dis.* 2022 Jun 24. doi: 10.1038/s41391-022-00565-y. Online ahead of print. PMID: 35750851.
 4. Indocyanine Green Drives Computer Vision Based 3D Augmented Reality Robot Assisted Partial Nephrectomy: The Beginning of "Automatic" Overlapping Era. Amparore D, Checcucci E, Piazzolla P, Piramide F, De Cillis S, Piana A, Verri P, **Manfredi M**, Fiori C, Vezzetti E, Porpiglia F. *Urology.* 2022 Jan 19:S0090-4295(22)00029-2. doi: 10.1016/j.urology.2021.10.053.
 5. Diagnostic Accuracy of Single-plane Biparametric and Multiparametric Magnetic Resonance Imaging in Prostate Cancer: A Randomized Noninferiority Trial in Biopsy-naïve Men. Russo F, Mazzetti S, Regge D, Ambrosini I, Giannini V, **Manfredi M**, De Luca S, Bollito E, Porpiglia F. *Eur Urol Oncol.* 2021 Dec;4(6):855-862. doi: 10.1016/j.euo.2021.03.007.
 6. Percutaneous Kidney Puncture with Three-dimensional Mixed-reality Hologram Guidance: From Preoperative Planning to Intraoperative Navigation. Porpiglia F, Checcucci E, Amparore D, Peretti D, Piramide F, De Cillis S, Piana A, Niculescu G, Verri P, **Manfredi M**, Poggio M, Stura I, Migliaretti G, Cossu M, Fiori C. *Eur Urol.* 2021 Nov 16:S0302-2838(21)02124-2. doi:10.1016/j.eururo.2021.10.023.
 7. Anastomosis quality score during robot-assisted radical prostatectomy: a new simple tool to maximize postoperative management. Porpiglia F, Checcucci E, De Cillis S, Amparore D, Pecoraro A, Piana A, Granato S, Verri P, Sica M, Piramide F, **Manfredi M**, Fiori C. *World J Urol.* 2021 Jan 3. doi: 10.1007/s00345-020-03549-6. Online ahead of print. PMID: 33388913.
 8. Implementing telemedicine for the management of benign urologic conditions: a single centre experience in Italy. Checcucci E, De Luca S, Alessio P, Verri P, Granato S, De Cillis S, Amparore D, Sica M, Piramide F, Piana A, Volpi G, **Manfredi M**, Balestra G, Autorino R, Fiori C, Porpiglia F; Uro-technology and SoMe Working Group of the Young Academic Urologists Working Party of the European Association of Urology. *World J Urol.* 2021 Jan 1:1-7. doi: 10.1007/s00345-020-03536-x. Online ahead of print. PMID: 33385246.



9. Urethral-sparing Robot-assisted Simple Prostatectomy: An Innovative Technique to Preserve Ejaculatory Function Overcoming the Limitation of the Standard Millin Approach. Porpiglia F, Checcucci E, Amparore D, Niculescu G, Volpi G, Piramide F, De Cillis S, **Manfredi M**, Autorino R, Fiori C. *Eur Urol*. 2020 Oct 5:S0302-2838(20)30720-X. doi: 10.1016/j.eururo.2020.09.028. Online ahead of print.
10. Three-dimensional Augmented Reality Robot-assisted Partial Nephrectomy in Case of Complex Tumours (PADUA ≥ 10): A New Intraoperative Tool Overcoming the Ultrasound Guidance. Porpiglia F, Checcucci E, Amparore D, Piramide F, Volpi G, Granato S, Verri P, **Manfredi M**, Bellin A, Piazzolla P, Autorino R, Morra I, Fiori C, Mottrie A. *Eur Urol*. 2019 Dec 30. pii: S0302-2838(19)30897-8.
11. Three-dimensional virtual imaging of renal tumours: a new tool to improve the accuracy of nephrometry scores. Porpiglia F, Amparore D, Checcucci E, **Manfredi M**, Stura I, Migliaretti G, Autorino R, Ficarra V, Fiori C. *BJU Int*. 2019 Dec;124(6):945-954. doi: 10.1111/bju.14894. Epub 2019 Sep 27. PubMed PMID: 31390140.
12. Three-dimensional Elastic Augmented-reality Robot-assisted Radical Prostatectomy Using Hyperaccuracy Three-dimensional Reconstruction Technology: A Step Further in the Identification of Capsular Involvement. Porpiglia F, Checcucci E, Amparore D, **Manfredi M**, Massa F, Piazzolla P, Manfrin D, Piana A, Tota D, Bollito E, Fiori C. *Eur Urol*. 2019 Oct;76(4):505-514. doi: 10.1016/j.eururo.2019.03.037. Epub 2019 Apr 9. PubMed PMID: 30979636.
13. Indication to pelvic lymph nodes dissection for prostate cancer: the role of multiparametric magnetic resonance imaging when the risk of lymph nodes invasion according to Briganti updated nomogram is ≤ 5 . Porpiglia F, **Manfredi M**, Mele F, Bertolo R, Bollito E, Gned D, De Pascale A, Russo F, Passera R, Fiori C, De Luca S. *Prostate Cancer Prostatic Dis*. 2018 Apr;21(1):85-91. doi: 10.1038/s41391-017-0026-5. Epub 2018 Feb 22. PMID: 29472629.
14. Chitosan membranes applied on the prostatic neurovascular bundles after nerve-sparing robot-assisted radical prostatectomy: a phase II study. Porpiglia F, Bertolo R, Fiori C, **Manfredi M**, De Cillis S, Geuna S. *BJU Int*. 2018 Mar;121(3):472-478. doi: 10.1111/bju.13959. Epub 2017 Aug 9. PMID: 28710845.
15. Five-year Outcomes for a Prospective Randomised Controlled Trial Comparing Laparoscopic and Robot-assisted Radical Prostatectomy. Porpiglia F, Fiori C, Bertolo R, **Manfredi M**, Mele F, Checcucci E, De Luca S, Passera R, Scarpa RM. *Eur Urol Focus*. 2018 Jan;4(1):80-86. doi: 10.1016/j.euf.2016.11.007. Epub 2016 Nov 23. PMID: 28753822.