

Ricardo Leão

Urologista

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POSITION TITLE

2018 - present

Urologist

Clinical Director; Hospital CUF Coimbra, Coimbra, Portugal

Urology Coordinator at CUF Coimbra Hospital, Coimbra, Portugal

Urologist Staff at Hospital CUF Coimbra, Hospital CUF Tejo, Clinical CUF Leiria

<https://www.cuf.pt/hospitais-e-clinicas/hospital-cuf-coimbra>

<https://www.cuf.pt/hospitais-e-clinicas/hospital-cuf-tejo>

<https://www.cuf.pt/hospitais-e-clinicas/clinica-cuf-leiria>

2019 – present

Assistant Professor (Full Time Invited Professor)

Faculty of Medicine, University of Coimbra, Coimbra, Portugal

<https://www.uc.pt/fmuc/>

EDUCATION

DEGREES

2014-2019	Ph.D. Degree conferred by the University of Coimbra, Portugal, January 2019 Experimental work done at the University of Toronto, Canada "The role of telomere maintenance in urological malignancies" Research done at the: Princess Margaret Cancer Centre, University of Toronto, Canada; The Hospital for Sick Children, Toronto, Canada and Faculty of Medicine, University of Coimbra, Coimbra, Portugal https://estudogeral.uc.pt/handle/10316/92899
1998-2004	Doctor of Medicine (M.D.) Faculty of Medicine, University of Coimbra, Coimbra, Portugal
1994-1998	Bachelor in Science (BSc) Field of Study: Biology Faculty of Sciences and Technology, University of Coimbra, Portugal

POSTGRADUATE, RESEARCH AND SPECIALTY TRAINING

2018	Robotic Scientific Fellowship Field of Study: Robotic Surgery Training OLV Hospital and ORSI Academy Aalst, Belgium https://www.orsi-online.com
2014 – 2017	PhD Thesis The role of telomere maintenance mechanisms in urological malignancies Princess Margaret Cancer Centre, University of Toronto, Canada The Hospital for Sick Children, Toronto, Canada Faculty of Medicine, University of Coimbra, Coimbra, Portugal

Research Fellowship

Field of Study: Epigenetics and genetics, focusing on telomere biology.
The Arthur and Sonia Labatt Brain Tumour Research Centre
Uri Tabori Laboratory
The Hospital for Sick Children, University of Toronto
Toronto, ON, Canada
<https://lab.research.sickkids.ca/tabori/>

SUO – Society Urologic Oncology Fellowship

Field of Study: Urological Oncology (research, medical/surgical training). Society of Urologic Oncology & American Association of Urology.
Department of Surgical Oncology, Division Urology, University of Toronto.
Toronto, ON, Canada
<https://suonet.org/fellowships.aspx>
<https://uofturology.ca/education/fellowships/fellowship-positions/urooncology/>

2012

Clinical Fellowship

Field of Study: Clinical Fellowship Training Program in Laparoscopic and Robotic Surgery
Supervisor: Jens Rassweiler MD
SLK Klinikum Heilbronn GmbH, Department of Urology
University of Heidelberg, Germany
<https://www.slk-kliniken.de/urologie>

2012 (1 M)

Research Training

Field of Study: Cancer stem cells culture
Supervisor: Robert Bristow MD PhD
STTARR Innovation Centre, Princess Margaret Cancer Research
Toronto, ON, Canada
Duration: 1 Month
<https://www.sttarr.com>

2007-2008

Postgraduate in Sexual Medicine

Field of Study: Sexual Medicine
Supervisor: Nuno Monteiro Pereira MD PhD
Lusophone University of Humanities and Technology of Lisbon
Lisbon, Portugal

2007-2013

Residency in Urology

Field of Study: Urology

Department of Urology, Coimbra University Hospital, Coimbra, Portugal

[https://www.chuc.min-saude.pt/servicos/u/urologia-e-transplantacao-](https://www.chuc.min-saude.pt/servicos/u/urologia-e-transplantacao-renal/)

[renal/](https://www.chuc.min-saude.pt/servicos/u/urologia-e-transplantacao-renal/)

SCHOLARSHIPS

2009

Observership in Urology

Supervisor: Arthur Burnett MD

The James Buchanan Brady Urological Institute

The Johns Hopkins Hospital

Baltimore, USA

<https://www.hopkinsmedicine.org/research/labs/n/neuro-urology-laboratory>

<https://www.hopkinsmedicine.org/brady-urology-institute/about-us/history>

2004

Observership in Plastic Surgery

Department of Plastic Surgery,

Hospital Clementino Fraga Filho

Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

Duration: 1 Month

<https://www.hucff.ufrj.br/cirurgia-plastica/>

EMPLOYMENT and PROFESSIONAL EXPERIENCE

CURRENT APPOINTMENTS

2018	Staff Urologist Urology Coordinator and Clinical Director at CUF Coimbra Hospital, Portugal CUF Tejo Hospital, Lisboa, Portugal CUF Leiria Hospital, Leiria, Portugal
2019	Assistant Professor Full Time, Invited Professor Faculty of Medicine, University of Coimbra, Coimbra, Portugal

PAST APPOINTMENTS

2014 - 2017	Urologic Oncology Fellow Society of Urologic Oncology Fellowship Program Division of Urology, Princess Margaret Cancer Centre University of Toronto, Toronto, Canada Research Fellow The Arthur and Sonia Labatt Brain Tumor Research Centre Uri Tabori Laboratory The Hospital for Sick Children, Toronto, Canada
2013 - 2014	Staff Urologist Coimbra University Hospital, Coimbra, Portugal
2012-2014	Assistant Lecturer Urology Assistant Lecturer Faculty of Medicine, University of Coimbra, Portugal
2007- 2013	Urology Resident Department of Urology and Renal Transplantation Coimbra University Hospital, Coimbra, Portugal

2006- 2007	Nuclear Medicine Resident Department of Nuclear Medicine, Coimbra University Hospital, Coimbra Portugal
2005- 2006	Internship Medical Intern Coimbra University Hospital, Coimbra, Portugal

UROLOGY BOARD CERTIFICATIONS

2016	Fellow of the Society of Urologic Oncology Division of Urology, University of Toronto Society of Urologic Oncology – American Urological Association Urologic Oncology Fellow https://suonet.org/fellowships.aspx
2013	Fellow of the European Board of Urology (FEBU) European Association of Urology https://www.ebu.com/examination/febu/
2013	Specialist in Urology Coimbra University Hospital, Coimbra, Portugal Central Administration of Health System, Government of Portugal

COMMITTEES AND COORDINATION POSITIONS

2023	Clinical Director Hospital CUF Coimbra, Coimbra, Portugal
2021-2022	Membro da Comissão Oncológica Hospital de Braga, EPE
2019	European Association of Urology Guideline for Testicular Cancer Guidelines <u>Panel Member</u> https://uroweb.org/guidelines/testicular-cancer/panel

2019	European Association of Urology EAU Section of Oncological Urological Oncology <u>Associate Member</u> https://uroweb.org/sections/eau-section-of-oncological-urology
2019	IKCC 2019 Meeting & Kidney Cancer Experts Meeting Chairman – Scientific Committee
2019-2020	Santa Casa da Misericórdia de Lisboa Scientific Committee for Biosciences
2018	Program Committee and Faculty 1 st Portuguese Symposium on Research and Innovation in Urology Lisbon, Portugal
2014-2014	Elected member of the Faculty of Medicine Assembly Faculty of Medicine, University of Coimbra, Portugal
2012-2014	Elected member of the Faculty of Medicine Assembly Faculty of Medicine, University of Coimbra, Portugal
2011	Portuguese Association of Urology Resident's Representative College of Portuguese Urology and Portuguese Medical Association

MEMBERSHIP

Associação Portuguesa de Urologia

European Association of Urology

American Urological Association

European Association of Cancer Research

American Society of Clinical Oncology

RESEARCH & ACADEMIC

CIÊNCIA VITAE <https://www.cienciavitae.pt/A319-F2B6-ACE4>

Coimbra Institute for Clinical and Biomedical Research - <https://www.uc.pt/fmuc/icbr/research-lines/inflammation-group/>

Computational and Experimental Biology – CEDOC – Nova Medical School
<https://www.nms.unl.pt/en-us/research/research-groups/research-group/n/computational-and-experimental-biology>

CIBB, University of Coimbra, Portugal
<https://cibb.uc.pt/pt/people/r-leao>

RESEARCH PROJECTS (Concluded and on-going)

2024- Present	Deciphering Response Variability in Non-Muscle Invasive Bladder Cancer: Investigating Heterogeneity Through Cancer Stem Cells and Exosomal Dynamics
2021- Present	Otimização de métodos para deteção por espectrometria de massa de biomarcadores de resposta imunitária em cancros urológicos Role: Co-Investigator CEDOC; Nova Medical School Faculty of Medicine, University of Coimbra
2021-Present	miR-371a-3p assessment in liquid biopsies improve clinical decision for testicular lesions Role: Investigator FMUC, ICBAS
2020- Present	Unravelling the potential of extracellular vesicles as biomarkers of Intraductal and Cribriform Prostate Cancer Role: Co-Investigator FMUC, CEDOC

2019- Present	Comparação da Eficácia dos Fármacos para o Cancro da Próstata Metastizado Resistente à Castração na Vida Real com os Resultados dos Ensaios Clínicos Role: Co-Investigator FMUC, Hospital de Braga, UPorto
2018-Present	miRNAs as new markers for testicular cancer Role: Co-Investigator and Investigator University of British Columbia, Vancouver, Canada Princess Maxima Centrum, Utrecht, The Netherlands University of South California, Los Angeles, California, USA SWOG Group Chairs Office, Portland Oregon
2018- Present	Urine biomarker for NMIBC detection Role: Co-Investigator Research Team: i3S; University of Porto
2013–Present	The role of leptin in the micro-environment and oncogenesis of prostate cancer malignancies. Role: Co-Investigator Research Team: Arnaldo Figueiredo, Pedro Castelo-Branco, David Castelo
2015-Present	Molecular characterization and behaviour of tumour arising in patients taking 5-alpha reductase inhibitors Role: Co-Investigator Research Team: Robert Hamilton
2015–2018	Circulating tumour cells in advanced and metastatic bladder cancer. A prospective clinical trial at the Princess Margaret Cancer Centre. Role: Principal Investigator Research Team: Robert Hamilton, Uri Tabori, Alexandre Zlotta
2016 - 2017	miRNAs, biomarkers for active disease in advanced testicular cancer Role: Principal Investigator Research Team: Robert Hamilton, Leendert Looijenga, A.J. van Agthoven
2014 – 2017	The role of telomere maintenance mechanisms in urological malignancies (prostate, bladder and testicular cancers)

PhD Thesis.

Research Team: Uri Tabori, Arnaldo Figueiredo, Pedro Castelo-Branco and Robert Hamilton

2015-2016 **Improving the ability to predict histology for postchemotherapy retroperitoneal lesions in testicular non-seminomatous germ cell tumours**
Role: Principal Investigator
Research Team: Madhur Nayan, Robert Hamilton

GRANTS, PRIZES AND AWARDS

2024 **Bolsa de Investigação em Oncologia NRC.LPCC/CIMAGO 2024**
Deciphering Response Variability in Non-Muscle Invasive Bladder Cancer: Investigating Heterogeneity Through Cancer Stem Cells and Exosomal Dynamics

2021 **Best Video Award – APU Meeting 2021**
Laparoscopic Bilateral Retroperitoneal Lymph Node dissection

2021 **ACIMAGO Award**
Associação Apoio Centro Investigação em Meio Ambiente, Genética e Oncobiologia
miR-371a-3p assessment in liquid biopsies improve clinical decision for testicular lesions

2021 **Liga Portuguesa contra o Cancro – Terry Fox Grant**
How could we predict intraductal and cribriform prostate cancer in prostate biopsies?

2021 **Investigator Initiative Project**
Unravelling the potential of extracellular vesicles as biomarkers of Intraductal and Cribriform Prostate Cancer

2021 **Prossyga Research Award**
Comparação da Eficácia dos Fármacos para o Cancro da Próstata Metastizado Resistente à Castração na Vida Real com os Resultados dos Ensaios Clínicos

2021 **FCT Research Grant PTDC/BTM-TEC/1746/2021**

Otimização de métodos para deteção por espectrometria de massa de biomarcadores de resposta imunitária em cancros urológicos

- 2019 **1st Best Research Project – Portuguese Association of Urology**
A novel urine test for non-muscle invasive bladder cancer recurrence detection – a Portuguese Multicentric Study
- 2018 **Best Poster Winner**
AUA 2018 Meeting, May 18-21, San Francisco, USA
Project: Serum miRNA to predict post-chemotherapy viable disease in testicular non-seminomatous germ cell tumor patients.
- 2016 **Canadian Association of Urology**
Canadian Urologic Oncologic Group (CUOG)
2016 CUOG Sanofi Genzyme Award
Project: miRNAs a predictive tool for residual disease in testicular cancer
- 2015 **Portuguese Association of Urology & Tecnimede**
Research Grant
Project: miRNAs biomarker for active testicular cancer disease
- 2015 **Canadian Association of Urology**
Canadian Urologic Oncologic Group (CUOG)
2015 CUOG Bayer Research Award
Project: The role of telomere maintenance in testicular cancer relapse
- 2014 **Foundation for Science and Technology, Government of Portugal**
SFRH/BD/102232/2014 Individual Doctoral Grant
Individual Doctoral Grant
Project: The role of telomere maintenance in testicular cancer relapse
Funding: Salary
- 2014 **Canadian Association of Urology**
Canadian Urologic Oncologic Group
Research Grant
Project: Molecular characterization of tumours arising in patients taking 5-alpha reductase inhibitors
Role: PI
- 2012 **Portuguese Association of Urology & Astellas Pharma**
Research Grant for Prostate Cancer Research

Project: The role of leptin in the micro-environment and oncogenesis of prostate cancer

- 2011 **Program for Research Support**
 Research grant
 Faculty of Medicine, University of Coimbra, Portugal
- 2011 **Portuguese Association of Urology & Astellas Pharma**
 Research grant
 Project: The role prostate cancer stem cells in prostate cancer resistance

PUBLICATIONS

ARTICLES (peer-reviewed)

[Indexed to PubMed](#)

<https://www.ncbi.nlm.nih.gov/myncbi/ricardo.leao.1/bibliography/public/>

Botelho F, Braga I, Leão R, Teves F, Dias J, Rodrigues F, Oliveira J, Augusto I, Portela C, Febra J, Custódio S, Liu P, Gago P, Miranda A, Silva C, Pacheco-Figueiredo L. [Real-life Data on First- and Second-Line Treatment of Metastatic Castration-Resistant Prostate Cancer With Abiraterone, Enzalutamide and Cabazitaxel - A multicentric Study From Portugal.](#) Clin Genitourin Cancer. 2024 Dec;22(6):102169. doi: 10.1016/j.clgc.2024.102169. Epub 2024 Jul 18. PubMed PMID: 39153249.

Bernardino RM, Yin LB, Lajkosz K, Cockburn JG, Wettstein MS, Woon D, Nguyen DD, Sayyid R, Leão R, van der Kwast T, Fleshner N. [Can the free/total psa ratio predict undetected intraductal carcinoma and cribriform pattern at biopsy?](#) World J Urol. 2024 Nov 28;42(1):651. doi: 10.1007/s00345-024-05369-4. PubMed PMID: 39607443.

Bernardino R, Carvalho AS, Hall MJ, Alves L, Leão R, Sayyid R, Pereira H, Beck HC, Pinheiro LC, Henrique R, Fleshner N, Matthiesen R. [Profiling of urinary extracellular vesicle protein signatures from patients with cribriform and intraductal prostate carcinoma in a cross-sectional study.](#) Sci Rep. 2024 Oct 23;14(1):25065. doi:

10.1038/s41598-024-75272-w. PubMed PMID: 39443544; PubMed Central PMCID: PMC11500006.

Bernardino R, Sayyid RK, Leão R, Zlotta AR, van der Kwast T, Klotz L, Fleshner NE. [Using active surveillance for Gleason 7 \(3+4\) prostate cancer: A narrative review](#). Can Urol Assoc J. 2024 Apr;18(4):135-144. doi: 10.5489/cuaj.8539. Review. PubMed PMID: 38381936; PubMed Central PMCID: PMC11034964.

Bernardino R, Sayyid RK, Lajkosz K, Al-Daqqaq Z, Tiwari R, Cockburn J, Leão R, Metser U, Berlin A, van der Kwast T, Fleshner NE. [Intraductal Prostate Cancer Affinity for Lymphatic-Predominant Metastases Through \(18\)F-DCFPyL-Prostate-Specific Membrane Antigen-Positron Emission Tomography/CT Scans in Pretreatment Prostate Cancer Patients](#). J Urol. 2024 Apr;211(4):586-593. doi: 10.1097/JU.0000000000003850. Epub 2024 Feb 1. PubMed PMID: 38299501.

Nunes FM, Apolónio JD, Mota-Pinto A, Leão R. [Epigenetic alterations in urothelial bladder cancer associated with disease outcomes](#). Int J Urol. 2024 Mar;31(3):220-229. doi: 10.1111/iju.15335. Epub 2023 Nov 14. PubMed PMID: 37961796.

Araújo AS, Anacleto S, Rodrigues R, Tinoco C, Cardoso A, Oliveira C, Leão R. [Testicular prostheses - impact on quality of life and sexual function](#). Asian J Androl. 2024 Mar 1;26(2):160-164. doi: 10.4103/aja202325. Epub 2023 Jul 11. PubMed PMID: 37459043; PubMed Central PMCID: PMC10919427.

Bernardino RM, Sayyid RK, Lajkosz K, Al-Daqqaq Z, Cockburn JG, Chavarriaga J, Abedi S, Leão R, Berlin A, van der Kwast T, Fleshner NE. [Limitations of Prostate Biopsy in Detection of Cribriform and Intraductal Prostate Cancer](#). Eur Urol Focus. 2024 Jan;10(1):146-153. doi: 10.1016/j.euf.2023.08.010. Epub 2023 Sep 10. PubMed PMID: 37696743.

Bernardino R, Sayyid RK, Leão R, Zlotta AR, van der Kwast T, Klotz L, Fleshner NE. [Increasing trend of utilising active surveillance for Gleason Score 7 \(3 + 4\) prostate cancer](#). BJU Int. 2023 Dec;132(6):638-640. doi: 10.1111/bju.16162. Epub 2023 Aug 31. PubMed PMID: 37606994.

Sayyid RK, Bernardino R, Al-Daqqaq Z, Tiwari R, Cockburn J, Vijayakanthan S, Leão R, Qaoud Y, Berjaoui MB, Metser U, Berlin A, Fleshner NE. [Mesorectal nodal metastasis with seminal vesicle invasion in biochemically recurrent prostate cancer](#). BJU Int. 2023

Dec;132(6):664-670. doi: 10.1111/bju.16123. Epub 2023 Jul 20. PubMed PMID: 37433574.

Patrikidou A, Cazzaniga W, Berney D, Boormans J, de Angst I, Di Nardo D, Fankhauser C, Fischer S, Gravina C, Gremmels H, Heidenreich A, Janisch F, Leão R, Nicolai N, Oing C, Oldenburg J, Shepherd R, Tandstad T, Nicol D. [European Association of Urology Guidelines on Testicular Cancer: 2023 Update](#). Eur Urol. 2023 Sep;84(3):289-301. doi: 10.1016/j.eururo.2023.04.010. Epub 2023 May 12. Review. PubMed PMID: 37183161.

Apolónio JD, Dias JS, Fernandes MT, Komosa M, Lipman T, Zhang CH, Leão R, Lee D, Nunes NM, Maia AT, Morera JL, Vicioso L, Tabori U, Castelo-Branco P. [THOR is a targetable epigenetic biomarker with clinical implications in breast cancer](#). Clin Epigenetics. 2022 Dec 18;14(1):178. doi: 10.1186/s13148-022-01396-3. PubMed PMID: 36529814; PubMed Central PMCID: PMC9759897.

Araújo AS, Anacleto S, Laranjo-Tinoco C, Cardoso A, Morais N, Torres JN, Mendes M, Leão R, Carvalho-Dias E. [Laparoscopic treatment of entero-neobladder fistula after radical cystectomy](#). J Surg Case Rep. 2022 Sep;2022(9):rjac419. doi: 10.1093/jscr/rjac419. eCollection 2022 Sep. PubMed PMID: 36196128; PubMed Central PMCID: PMC9526538.

Henriques D, Mota Pinto A, Donato H, Leão R. [Prevalence and Management of Incidental Testicular Masses-A Systematic Review](#). J Clin Med. 2022 Sep 29;11(19). doi: 10.3390/jcm11195770. Review. PubMed PMID: 36233639; PubMed Central PMCID: PMC9573452.

Lobo J, Leão R. [Editorial: Diagnostic and predictive biomarkers in testicular germ cell tumors](#). Front Oncol. 2022;12:1027363. doi: 10.3389/fonc.2022.1027363. eCollection 2022. PubMed PMID: 36176416; PubMed Central PMCID: PMC9513745.

Oldenburg J, Berney DM, Bokemeyer C, Climent MA, Daugaard G, Gietema JA, De Giorgi U, Haugnes HS, Huddart RA, Leão R, Sohaib A, Gillessen S, Powles T. [Testicular seminoma and non-seminoma: ESMO-EURACAN Clinical Practice Guideline for diagnosis, treatment and follow-up](#). Ann Oncol. 2022 Apr;33(4):362-375. doi: 10.1016/j.annonc.2022.01.002. Epub 2022 Jan 19. PubMed PMID: 35065204.

Herrera-Caceres JO, Ajaj R, Leão R, Barello S, Rodriguez-Covarrubias F, Zequi SC, Maskens D, Giles RH, Lavallée LT, Jewett MAS. [Patient-centered care can be improved by joint meetings between cancer patient group leaders and health care](#)

providers. Patient Educ Couns. 2022 Mar;105(3):786-787. doi: 10.1016/j.pec.2021.07.023. Epub 2021 Jul 16. PubMed PMID: 34344571.

Bernardino RMM, Leão R, Henrique R, Pinheiro LC, Kumar P, Suravajhala P, Beck HC, Carvalho AS, Matthiesen R. [Extracellular Vesicle Proteome in Prostate Cancer: A Comparative Analysis of Mass Spectrometry Studies](#). Int J Mol Sci. 2021 Dec 19;22(24). doi: 10.3390/ijms222413605. Review. PubMed PMID: 34948404; PubMed Central PMCID: PMC8707426.

Lee DD, Komosa M, Sudhaman S, Leão R, Zhang CH, Apolonio JD, Hermanns T, Wild PJ, Klocker H, Nassiri F, Zadeh G, Diplas BH, Yan H, Gallinger S, Pugh TJ, Ramaswamy V, Taylor MD, Castelo-Branco P, Nunes NM, Tabori U. [Dual role of allele-specific DNA hypermethylation within the TERT promoter in cancer](#). J Clin Invest. 2021 Nov 1;131(21). doi: 10.1172/JCI146915. PubMed PMID: 34720085; PubMed Central PMCID: PMC8553568.

Leão R, Albersen M, Looijenga LHJ, Tandstad T, Kollmannsberger C, Murray MJ, Culine S, Coleman N, Belge G, Hamilton RJ, Dieckmann KP. [Circulating MicroRNAs, the Next-Generation Serum Biomarkers in Testicular Germ Cell Tumours: A Systematic Review](#). Eur Urol. 2021 Oct;80(4):456-466. doi: 10.1016/j.eururo.2021.06.006. Epub 2021 Jun 24. PubMed PMID: 34175151.

Fankhauser CD, Oldenburg J, Albers P, Algaba F, Bokemeyer C, Boormans JL, Fischer S, Fizazi K, Gremmels H, Mayor de Castro J, Janisch F, Muilwijk T, Leão R, Nicol D, Nicolai N, Tandstad T, Pilar Laguna M. [Recommendations to Balance Benefits and Risks Of Thromboprophylaxis and to Avoid Central Venous-access Devices During First-line Chemotherapy in Men with Metastatic Germ Cell Tumors: The European Association Of Urology Testicular Cancer Panel Position in 2021](#). Eur Urol. 2021 Jul;80(1):4-6. doi: 10.1016/j.eururo.2021.02.032. Epub 2021 Mar 12. PubMed PMID: 33722419.

Garisto J, Nayan M, Fadaak K, Li K, Pandya A, Leao R, Chung P, Shridar SS, Helou J, Kulkarni GS. [Oncological outcomes in the management of cT1-T2 cN0 penile squamous cell carcinoma](#). Can Urol Assoc J. 2021 Jun;15(6):187-191. doi: 10.5489/cuaj.6762. PubMed PMID: 33212003; PubMed Central PMCID: PMC8195575.

Lobo J, Leão R, Gillis AJM, van den Berg A, Anson-Cartwright L, Atenafu EG, Kuhathaas K, Chung P, Hansen A, Bedard PL, Jewett MAS, Warde P, O'Malley M, Sweet J, Looijenga LHJ, Hamilton RJ. [Utility of Serum miR-371a-3p in Predicting Relapse on](#)

[Surveillance in Patients with Clinical Stage I Testicular Germ Cell Cancer](#). Eur Urol Oncol. 2021 Jun;4(3):483-491. doi: 10.1016/j.euo.2020.11.004. Epub 2020 Dec 4. PubMed PMID: 33288479.

Lobo J, Leão R, Jerónimo C, Henrique R. [Liquid Biopsies in the Clinical Management of Germ Cell Tumor Patients: State-of-the-Art and Future Directions](#). Int J Mol Sci. 2021 Mar 6;22(5). doi: 10.3390/ijms22052654. Review. PubMed PMID: 33800799; PubMed Central PMCID: PMC7961393.

Nappi L, Thi M, Adra N, Hamilton RJ, Leao R, Lavoie JM, Soleimani M, Eigl BJ, Chi K, Gleave M, So A, Black PC, Bell R, Daneshmand S, Cary C, Masterson T, Einhorn L, Nichols C, Kollmannsberger C. [Integrated Expression of Circulating miR375 and miR371 to Identify Teratoma and Active Germ Cell Malignancy Components in Malignant Germ Cell Tumors](#). Eur Urol. 2021 Jan;79(1):16-19. doi: 10.1016/j.eururo.2020.10.024. Epub 2020 Nov 4. PubMed PMID: 33158661.

Nason GJ, Sweet J, Landoni L, Leao R, Anson-Cartwright L, Mok S, Guzylak V, D'Angelo A, Fang ZY, Geist I, Warde P, Jewett MAS, Hamilton RJ. [Discrepancy in pathology reports upon second review of radical orchiectomy specimens for testicular germ cell tumors](#). Can Urol Assoc J. 2020 Dec;14(12):411-415. doi: 10.5489/cuaj.6481. PubMed PMID: 32574142; PubMed Central PMCID: PMC7704081.

Ajaj R, Cáceres JOH, Berlin A, Wallis CJD, Chandrasekar T, Klaassen Z, Ahmad AE, Leao R, Finelli A, Fleshner N, Goldberg H. [Gender-based psychological and physical distress differences in patients diagnosed with non-metastatic renal cell carcinoma](#). World J Urol. 2020 Oct;38(10):2547-2554. doi: 10.1007/s00345-019-03057-2. Epub 2020 Jan 1. PubMed PMID: 31893313.

Pimentel Torres J, Oliveira JN, Morais N, Anacleto S, Rodrigues RM, Mota P, Leão R, Lima E. [Efficacy and safety of renal drainage options for percutaneous nephrolithotomy](#). Minerva Urol Nefrol. 2020 Oct;72(5):629-636. doi: 10.23736/S0393-2249.19.03643-9. Epub 2020 Jan 7. PubMed PMID: 31920064.

Sieverink CA, Batista RPM, Prazeres HJM, Vinagre J, Sampaio C, Leão RR, Máximo V, Witjes JA, Soares P. [Clinical Validation of a Urine Test \(Uromonitor-V2®\) for the Surveillance of Non-Muscle-Invasive Bladder Cancer Patients](#). Diagnostics (Basel). 2020 Sep 24;10(10). doi: 10.3390/diagnostics10100745. PubMed PMID: 32987933; PubMed Central PMCID: PMC7599569.

Ahmad AE, Richard PO, Leão R, Hajiha M, Martin LJ, Komisarenko M, Grewal R, Goldberg H, Salem S, Jain K, Oliaei A, Horyn I, Timilshina N, Zlotta A, Hamilton R, Kulkarni G, Fleshner N, Alibhaic SMH, Finelli A. [Does Time Spent on Active Surveillance Adversely Affect the Pathological and Oncologic Outcomes in Patients Undergoing Delayed Radical Prostatectomy?](#). J Urol. 2020 Sep;204(3):476-482. doi: 10.1097/JU.0000000000001070. Epub 2020 Apr 7. PubMed PMID: 32259466.

Goldberg H, Ajaj R, Cáceres JOH, Berlin A, Chandrasekar T, Klaassen Z, Wallis CJD, Ahmad AE, Leao R, Petrella AR, Kachura JR, Fleshner N, Matthew A, Finelli A, Jewett MAS, Hamilton RJ. [Psychological distress associated with active surveillance in patients younger than 70 with a small renal mass.](#) Urol Oncol. 2020 Jun;38(6):603.e17-603.e25. doi: 10.1016/j.urolonc.2020.02.015. Epub 2020 Apr 3. PubMed PMID: 32253117.

Nason GJ, Aditya I, Leao R, Anson-Cartwright L, Jewett MAS, O'Malley M, Sweet J, Hamilton RJ. [Partial orchiectomy: The Princess Margaret cancer centre experience.](#) Urol Oncol. 2020 Jun;38(6):605.e19-605.e24. doi: 10.1016/j.urolonc.2020.03.012. Epub 2020 Apr 10. PubMed PMID: 32284257.

Nason GJ, Leao R, Hamilton RJ. [Active surveillance in stage 1 disease: standard of care independent of risk factors?](#). Curr Opin Urol. 2020 Mar;30(2):245-250. doi: 10.1097/MOU.0000000000000708. Review. PubMed PMID: 31834082.

Batista R, Vinagre N, Meireles S, Vinagre J, Prazeres H, Leão R, Máximo V, Soares P. [Biomarkers for Bladder Cancer Diagnosis and Surveillance: A Comprehensive Review.](#) Diagnostics (Basel). 2020 Jan 13;10(1). doi: 10.3390/diagnostics10010039. Review. PubMed PMID: 31941070; PubMed Central PMCID: PMC7169395.

Batista R, Vinagre J, Prazeres H, Sampaio C, Peralta P, Conceição P, Sismeiro A, Leão R, Gomes A, Furriel F, Oliveira C, Torres JN, Eufrásio P, Azinhais P, Almeida F, Gonzalez ER, Bidovanets B, Ecke T, Stinjs P, Pascual AS, Abdelmalek R, Villafruela A, Beardo-Villar P, Fidalgo N, Öztürk H, Gonzalez-Enguita C, Monzo J, Lopes T, Álvarez-Maestro M, Servan PP, De La Cruz SMP, Perez MPS, Máximo V, Soares P. [Validation of a Novel, Sensitive, and Specific Urine-Based Test for Recurrence Surveillance of Patients With Non-Muscle-Invasive Bladder Cancer in a Comprehensive Multicenter Study.](#) Front Genet. 2019;10:1237. doi: 10.3389/fgene.2019.01237. eCollection 2019. PubMed PMID: 31921291; PubMed Central PMCID: PMC6930177.

Ajaj R, Berlin A, Klaassen Z, Chandrasekar T, Wallis CJD, Ahmad AE, Herrera Cáceres JO, Leao R, Petrella AR, Fleshner N, Matthew A, Kulkarni GS, Goldberg H. [Age Differences in Patient-reported Psychological and Physical Distress Symptoms in Bladder Cancer Patients - A Cross Sectional Study](#). *Urology*. 2019 Dec;134:154-162. doi: 10.1016/j.urology.2019.08.032. Epub 2019 Sep 2. PubMed PMID: 31487512.

Ahmad AE, Mohammed A, Bhindi B, Richard PO, Fadaak K, Leão R, Finelli A, Fleshner NE, Kulkarni GS. [Serum Adipokines as Predictors for the Outcome of Prostate Biopsies at Early Stage Prostate Cancer Diagnosis](#). *Cancer Manag Res*. 2019;11:10043-10050. doi: 10.2147/CMAR.S226174. eCollection 2019. PubMed PMID: 31819637; PubMed Central PMCID: PMC6890197.

Nappi L, Thi M, Lum A, Huntsman D, Eigl BJ, Martin C, O'Neil B, Maughan BL, Chi K, So A, Black PC, Gleave M, Wyatt AW, Lavoie JM, Khalaf D, Bell R, Daneshmand S, Hamilton RJ, Leao RRN, Nichols C, Kollmannsberger C. [Developing a Highly Specific Biomarker for Germ Cell Malignancies: Plasma miR371 Expression Across the Germ Cell Malignancy Spectrum](#). *J Clin Oncol*. 2019 Nov 20;37(33):3090-3098. doi: 10.1200/JCO.18.02057. Epub 2019 Sep 25. PubMed PMID: 31553692; PubMed Central PMCID: PMC7351323.

Torres JP, Rodrigues A, Morais N, Anacleto S, Rodrigues RM, Mota P, Leão R, Lima E. [Efficacy and safety of a combined anesthetic technique for transrectal prostate biopsy: a single center, prospective, randomized study](#). *Cent European J Urol*. 2019;72(3):258-262. doi: 10.5173/ceju.2019.1936. Epub 2019 Sep 16. PubMed PMID: 31720027; PubMed Central PMCID: PMC6830480.

Leão R, Lee D, Figueiredo A, Hermanns T, Wild P, Komosa M, Lau I, Mistry M, Nunes NM, Price AJ, Zhang C, Lipman T, Poyet C, Valtcheva N, Oehl K, Coelho H, Sayyid R, Gomes AM, Prado E Castro L, Sweet J, Vinagre J, Apolónio J, Stephens D, Faleiro I, Fadaak K, Richard PO, Kulkarni G, Zlotta AR, Hamilton RJ, Castelo-Branco P, Tabori U. [Combined genetic and epigenetic alterations of the TERT promoter affect clinical and biological behavior of bladder cancer](#). *Int J Cancer*. 2019 Apr 1;144(7):1676-1684. doi: 10.1002/ijc.31935. Epub 2018 Dec 30. PubMed PMID: 30350309; PubMed Central PMCID: PMC6519346.

Lee DD, Leão R, Komosa M, Gallo M, Zhang CH, Lipman T, Remke M, Heidari A, Nunes NM, Apolónio JD, Price AJ, De Mello RA, Dias JS, Huntsman D, Hermanns T, Wild PJ, Vanner R, Zadeh G, Karamchandani J, Das S, Taylor MD, Hawkins CE, Wasserman JD, Figueiredo A, Hamilton RJ, Minden MD, Wani K, Diplas B, Yan H, Aldape K, Akbari MR,

Danesh A, Pugh TJ, Dirks PB, Castelo-Branco P, Tabori U. [DNA hypermethylation within TERT promoter upregulates TERT expression in cancer](#). J Clin Invest. 2019 Apr 1;129(4):1801. doi: 10.1172/JCI128527. Epub 2019 Apr 1. PubMed PMID: 30932912; PubMed Central PMCID: PMC6436876.

Leão R, Ahmad AE, Hamilton RJ. [Testicular Cancer Biomarkers: A Role for Precision Medicine in Testicular Cancer](#). Clin Genitourin Cancer. 2019 Feb;17(1):e176-e183. doi: 10.1016/j.clgc.2018.10.007. Epub 2018 Oct 23. Review. PubMed PMID: 30497810.

Lee DD, Leão R, Komosa M, Gallo M, Zhang CH, Lipman T, Remke M, Heidari A, Nunes NM, Apolónio JD, Price AJ, De Mello RA, Dias JS, Huntsman D, Hermanns T, Wild PJ, Vanner R, Zadeh G, Karamchandani J, Das S, Taylor MD, Hawkins CE, Wasserman JD, Figueiredo A, Hamilton RJ, Minden MD, Wani K, Diplas B, Yan H, Aldape K, Akbari MR, Danesh A, Pugh TJ, Dirks PB, Castelo-Branco P, Tabori U. [DNA hypermethylation within TERT promoter upregulates TERT expression in cancer](#). J Clin Invest. 2019 Jan 2;129(1):223-229. doi: 10.1172/JCI121303. Epub 2018 Dec 3. PubMed PMID: 30358567; PubMed Central PMCID: PMC6307937.

Leão R, Nayan M, Punjani N, Jewett MAS, Fadaak K, Garisto J, Lewin J, Atenafu EG, Sweet J, Anson-Cartwright L, Boström P, Chung P, Warde P, Bedard PL, Bagrodia A, Freifeld Y, Power N, Winkquist E, Hamilton RJ. [A New Model to Predict Benign Histology in Residual Retroperitoneal Masses After Chemotherapy in Nonseminoma](#). Eur Urol Focus. 2018 Dec;4(6):995-1001. doi: 10.1016/j.euf.2018.01.015. Epub 2018 Feb 7. PubMed PMID: 29428550.

Lewin J, Dufort P, Halankar J, O'Malley M, Jewett MAS, Hamilton RJ, Gupta A, Lorenzo A, Traubici J, Nayan M, Leão R, Warde P, Chung P, Anson Cartwright L, Sweet J, Hansen AR, Metser U, Bedard PL. [Applying Radiomics to Predict Pathology of Postchemotherapy Retroperitoneal Nodal Masses in Germ Cell Tumors](#). JCO Clin Cancer Inform. 2018 Dec;2:1-12. doi: 10.1200/CCI.18.00004. PubMed PMID: 30652572; PubMed Central PMCID: PMC6874033.

Leão R, van Agthoven T, Figueiredo A, Jewett MAS, Fadaak K, Sweet J, Ahmad AE, Anson-Cartwright L, Chung P, Hansen A, Warde P, Castelo-Branco P, O'Malley M, Bedard PL, Looijenga LHJ, Hamilton RJ. [Serum miRNA Predicts Viable Disease after Chemotherapy in Patients with Testicular Nonseminoma Germ Cell Tumor](#). J Urol. 2018 Jul;200(1):126-135. doi: 10.1016/j.juro.2018.02.068. Epub 2018 Feb 21. PubMed PMID: 29474847.

Richard PO, Ahmad AE, Bashir S, Zlotta A, Bhindi B, Leao R, Nayan M, Mohammed A, Fleshner NE, Kulkarni GS. [Impact of oral hypoglycemic agents on mortality among diabetic patients with non-muscle-invasive bladder cancer: A populationbased analysis](#). Can Urol Assoc J. 2018 Jun;12(6):203-210. doi: 10.5489/cuaj.4870. Epub 2018 Feb 23. PubMed PMID: 29485035; PubMed Central PMCID: PMC5994977.

Sayyid RK, Sayyid AK, Klaassen Z, Hersey K, Goldberg H, Perlis N, Ahmad A, Leao R, Chandrasekar T, Fadaak K, Madi R, Terris MK, Finelli A, Hamilton RJ, Kulkarni GS, Zlotta AR, Fleshner NE. [Replacing surveillance cystoscopy with urinary biomarkers in followup of patients with non-muscle-invasive bladder cancer: Patients' and urologic oncologists' perspectives](#). Can Urol Assoc J. 2018 May;12(5):E210-E218. doi: 10.5489/cuaj.4922. Epub 2018 Feb 6. PubMed PMID: 29405907; PubMed Central PMCID: PMC5966932.

Leão RRN, Price AJ, James Hamilton R. [Germline BRCA mutation in male carriers-ripe for precision oncology?](#). Prostate Cancer Prostatic Dis. 2018 Apr;21(1):48-56. doi: 10.1038/s41391-017-0018-5. Epub 2017 Dec 14. Review. PubMed PMID: 29242595.

Leão R, Apolónio JD, Lee D, Figueiredo A, Tabori U, Castelo-Branco P. [Mechanisms of human telomerase reverse transcriptase \(hTERT\) regulation: clinical impacts in cancer](#). J Biomed Sci. 2018 Mar 12;25(1):22. doi: 10.1186/s12929-018-0422-8. Review. PubMed PMID: 29526163; PubMed Central PMCID: PMC5846307.

Wallis C, Cheung D, Klotz L, Chalasani V, Leao R, Garisto J, Morton G, Nam R, Tannock I, Satkunasingam R. [Personal prostate-specific antigen screening and treatment choices for localized prostate cancer among expert physicians](#). Can Urol Assoc J. 2018 Feb;12(2):E59-E63. doi: 10.5489/cuaj.4736. Epub 2017 Dec 1. PubMed PMID: 29381460; PubMed Central PMCID: PMC5937408.

Sayyid RK, Sayyid AK, Klaassen Z, Fadaak K, Goldberg H, Chandrasekar T, Ahmad A, Leao R, Perlis N, Chadwick K, Hamilton RJ, Kulkarni GS, Finelli A, Zlotta AR, Fleshner NE. [Testosterone Responders to Continuous Androgen Deprivation Therapy Show Considerable Variations in Testosterone Levels on Followup: Implications for Clinical Practice](#). J Urol. 2018 Jan;199(1):251-256. doi: 10.1016/j.juro.2017.07.078. Epub 2017 Jul 25. PubMed PMID: 28751266.

Ahmad AE, Leão R, Hamilton RJ. [Radical Prostatectomy for Patients With Oligometastatic Prostate Cancer](#). Oncology (Williston Park). 2017 Nov 15;31(11):794-802. Review. PubMed PMID: 29179248.

Richard PO, Ahmad AE, Bashir S, Hamilton RJ, Nam RK, Leao R, Jeldres C, Kulkarni GS. [Effect of statins as a secondary chemopreventive agent among individuals with non-muscle-invasive bladder cancer: A population-based analysis](#). Urol Oncol. 2017 Jun;35(6):342-348. doi: 10.1016/j.urolonc.2016.12.009. Epub 2017 Feb 9. PubMed PMID: 28190747.

Faleiro I, Leão R, Binnie A, de Mello RA, Maia AT, Castelo-Branco P. [Epigenetic therapy in urologic cancers: an update on clinical trials](#). Oncotarget. 2017 Feb 14;8(7):12484-12500. doi: 10.18632/oncotarget.14226. Review. PubMed PMID: 28036257; PubMed Central PMCID: PMC5355359.

Leão R, Domingos C, Figueiredo A, Hamilton R, Tabori U, Castelo-Branco P. [Cancer Stem Cells in Prostate Cancer: Implications for Targeted Therapy](#). Urol Int. 2017;99(2):125-136. doi: 10.1159/000455160. Epub 2017 Feb 1. Review. PubMed PMID: 28142149.

Leão RR, Ahmad AE, Richard PO. [Should Small Renal Masses Be Biopsied?](#). Curr Urol Rep. 2017 Jan;18(1):7. doi: 10.1007/s11934-017-0653-3. Review. PubMed PMID: 28188595.

Leão RR, Richard PO, Jewett MA. [The role of biopsy for small renal masses](#). Int J Surg. 2016 Dec;36(Pt C):513-517. doi: 10.1016/j.ijssu.2016.02.097. Epub 2016 Mar 5. Review. PubMed PMID: 26957016.

Castelo-Branco P, Leão R, Lipman T, Campbell B, Lee D, Price A, Zhang C, Heidari A, Stephens D, Boerno S, Coelho H, Gomes A, Domingos C, Apolonio JD, Schäfer G, Bristow RG, Schweiger MR, Hamilton R, Zlotta A, Figueiredo A, Klocker H, Sultmann H, Tabori U. [A cancer specific hypermethylation signature of the TERT promoter predicts biochemical relapse in prostate cancer: a retrospective cohort study](#). Oncotarget. 2016 Sep 6;7(36):57726-57736. doi: 10.18632/oncotarget.10639. PubMed PMID: 27437772; PubMed Central PMCID: PMC5295385.

Leão RR, Richard PO, Jewett MA. [Indications for biopsy and the current status of focal therapy for renal tumours](#). Transl Androl Urol. 2015 Jun;4(3):283-93. doi: 10.3978/j.issn.2223-4683.2015.06.01. Review. PubMed PMID: 26816831; PubMed Central PMCID: PMC4708239.

Leão RN, Barreto P, Leão RR, Ribeiro JV. [Nitrofurantoin: cause of DRESS syndrome](#). BMJ Case Rep. 2013 May 8;2013. doi: 10.1136/bcr-2013-008991. PubMed PMID: 23661654; PubMed Central PMCID: PMC3669827.

Leão RR, Pereira BJ, Grenha V, Coelho H. [Pararenal sclerosing PEComa](#). BMJ Case Rep. 2013 Apr 17;2013. doi: 10.1136/bcr-2013-009097. PubMed PMID: 23598939; PubMed Central PMCID: PMC3645790.

Leão RR, Pereira BJ, Borges R, Grenha V. [Adrenal ganglioneuroma: a rare incidental finding](#). BMJ Case Rep. 2013 Jan 30;2013. doi: 10.1136/bcr-2012-008067. PubMed PMID: 23370951; PubMed Central PMCID: PMC3604538.

Borges R, Azinhais P, Retroz E, Temido P, Pereira B, Leão R, Grenha V, Coelho H, Sousa L, Brandão A, Cristo L, Sobral F. [Coagulum pyelolithotomy "revisited" by laparoscopy: technique modification](#). Urology. 2012 Jun;79(6):1412.e5-8. doi: 10.1016/j.urology.2012.02.051. Epub 2012 May 2. PubMed PMID: 22560433.

Facio F, Kashiwabuschi R, Nishi Y, Leao R, McDonnell P, Burnett A. [Benign prostatic hyperplasia. Clinical treatment can complicate cataract surgery](#). Int Braz J Urol. 2010 Sep-Oct;36(5):563-70. doi: 10.1590/s1677-55382010000500006. Review. PubMed PMID: 21044373.

Leão R, Sousa L, Azinhais P, Conceição P, Jorge Pereira B, Borges R, Grenha V, Retroz E, Temido P, Cristo L, Sobral F. [Sexual dysfunction in uraemic patients undergoing haemodialysis: predisposing and related conditions](#). Andrologia. 2010 Jun;42(3):166-75. doi: 10.1111/j.1439-0272.2009.00974.x. Review. PubMed PMID: 20500745.

Borges R, Temido P, Sousa L, Azinhais P, Conceição P, Pereira B, Leão R, Retroz E, Brandão A, Cristo L, Sobral F. [Metabolic syndrome and sexual \(dys\)function](#). J Sex Med. 2009 Nov;6(11):2958-75. doi: 10.1111/j.1743-6109.2009.01412.x. Epub 2009 Aug 12. Review. PubMed PMID: 19678882.

Pereira BJ, Sousa L, Azinhais P, Conceição P, Borges R, Leão R, Brandão A, Temido P, Retroz E, Sobral F. [Zinner's syndrome: an up-to-date review of the literature based on a clinical case](#). Andrologia. 2009 Oct;41(5):322-30. doi: 10.1111/j.1439-0272.2009.00939.x. Review. PubMed PMID: 19737281.

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Journal of Clinical Medicine IF:4.24

Research Topic: Clinical Advances on the Evaluation and Management of Testicular Germ Cell Tumours

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Life IF:3.817

Research Topic: Tumor microenvironment of urogenital cancers: looking for novel biomarkers and treatments

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4. Research and Reports in Urology.
5. BJU International.
6. Prostate Cancer and Prostatic Diseases.
7. Société Internationale d'Urologie Journal.
8. World Journal of Surgical Oncology
9. Journal of Cancer Research and Clinical Oncology
10. Journal of Clinical Medicine
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