

TECHNION – RUTH & BRUCE RAPPAPORT FACULTY OF MEDICINE
Curriculum Vitae (for physicians only)

1. PERSONAL DETAILS

Full Name: **Natalia Goldberg**
Identity No: 321695645
Date of birth: 22/3/1977
Place of birth: Belarus
Marital status: married
Phone numbers: +972547833789
E-mail: NATALIA.GOLD@TECHNION.AC.IL
Orcid Account: 0000-0002-2053-0178

2. ACADEMIC DEGREES

2008 , Faculty of Medicine, Tel-Aviv University, Tel-Aviv, Israel, Post Graduate Course
2000 MD (cum laude), Vitebsk State Medical University, Belarus,

3. ACADEMIC APPOINTMENTS

4. PROFESSIONAL EXPERIENCE (OUTSIDE ACADEMIA)

2019 - Present Chief, Radiology Departemnt, Carmel Medical Center
2015 - 2019 Chief of Surgical -GI Radiology Service, Rabin Medical Center
2014 - Present The Head of Body Imaging Department Quality, Assuta Medical Center
2010 - Present GI Team Radiologist, Ramat Aviv Medical Center
2009 - 2019 Attending, Radiology Department, Rabin Medical Center
2003 - 2009 Residency, Radiology Department, Rabin Medical Center
2002 - 2003 Internship, Rabin Medical Center

5. RESEARCH INTERESTS

- Implantation and challenges of AI algorithm in radiology practice in different age groups of patients
- Assessment of response of multiple myeloma treatment by whole-body MRI

6. TEACHING EXPERIENCE

2016 - 2016	Oncological Imaging Course (Director) , post graduate , Tel-Aviv University, Tel-Aviv
2019 - Present	Radiology Clerkship (Lecturer) , Medical School Clinical , Technion-Israel Institute of Technology, Haifa
2019 - Present	Radiology Clerkship (Supervisor) , Medical School Clinical , Technion-Israel Institute of Technology, Haifa
2023 - 2023	Frontiers Oncological Imaging (Director) , post graduate , Tel-Aviv University, Tel-Aviv

7. ACTIVITIES

8. FACULTY ACTIVITIES

9. PUBLIC PROFESSIONAL ACTIVITIES

2014 - present	GI Radiology Israel Boards Committee Exam (SHLAV B) Member , Israel Medical Association
----------------	---

10. MEMBERSHIP IN PROFESSIONAL SOCIETIES

- Israel Radiological Association
- Israel Society for Diagnostic Ultrasound in Medicine
- American College of Radiology
- Radiological Society of North America

11. AWARDS AND HONORS

2009	Junior Researcher Award for Prospective Rectal Cancer Study , Medicine , Tel-Aviv University, Tel-Aviv
2012	Excellent Lecturer , Medicine , Tel-Aviv University, Tel-Aviv

12. GRADUATE STUDENTS

Completed MD Theses

Completed Basic Science Theses

Completed MSc Theses

Completed PhD Thesis

MD Theses in Progress

Basic Science Theses in Progress

MSc Theses in Progress

PhD Theses in Progress

13. FORMER TRAINEES AT KEY POSITIONS

14. RESEARCH GRANTS

Competitive

Industrial and other sources

15. PUBLICATIONS

15.1 Theses

15.2 Refereed papers in professional journals

Published papers

Accepted (or in press) papers

Submitted papers

Basic research

Clinical research

1. Bachar GN, Mor E, Bartal G, Atar E, **Goldberg N**, Belenky A. Percutaneous balloon dilatation for the treatment of early and late ureteral strictures after renal transplantation: long-term follow-up. *Cardiovasc Intervent Radiol.* Jul- 27(4):335-8. 2004. doi: 10.1007/s00270-004-0163-9. IF=2.9, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q2.
2. Groshar D, Bernstine H, **Goldberg N**, Stern D, Sosna J. Accessory spleen-like masses in oncology patients: Are they always benign? *World J Radiol.* 2(9):368-73. 2010. doi: 10.4329/wjr.v2.i9.368. IF=2.5, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q3
3. **Goldberg N**, Kundel Y, Purim O, Bernstine H, Gordon N, Morgenstern S, Idelevich E, Wasserberg N, Sulkes A, Groshar D, Brenner B. Early prediction of histopathological response of rectal tumors after one week of preoperative radiochemotherapy using ¹⁸F-FDG PET-CT imaging. A prospective clinical study. *Radiat Oncol.* 7:124: 1-9. 2012. doi: 10.1186/1748-717X-7-124. IF=3.6, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q2.
4. Benjaminov O, Bachar GN, **Goldberg N**, Benjaminov-Sclarovsky F, Tur-Kaspa R. The utility of magnetic resonance cholangiopancreatography for the assessment of patients with elevated liver enzyme levels. *Eur J Gastroenterol Hepatol.* 25(10):1190-4. 2013. doi: 10.1097/MEG.0b013e328360762e.

IF=2.1, GASTROENTEROLOGY & HEPATOLOGY, Q4.

5. Wasserberg N, Purim O, Bard V, Kundel Y, Gordon N, Groshar D, **Goldberg N**, Kashtan H, Sulkes A, Brenner B. Early postoperative 18F-FDG PET/CT in high-risk stage III colorectal cancer. *Clin Nucl Med.* 40(4):e222-7. 2015. doi: 10.1097/RLU.0000000000000692. IF=10.6, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q1.

6. Raban O, Peled Y, Krissi H, **Goldberg N**, Aviram A, Sabah G, Levavi H, Eitan R. The significance of paracardiac lymph-node enlargement in patients with newly diagnosed stage IIIC ovarian cancer. *Gynecol Oncol.* 138(2):259-62. 2015. doi:10.1016/j.ygyno.2015.05.007. IF=4.7, OBSTETRICS & GYNECOLOGY, Q1.

7. Iordache SD, **Goldberg N**, Paz L, Peylan J, Hur RB, Steinmetz A. Radiation Exposure From Computed Tomography Of The Upper Limbs. *Acta Orthop Belg.* 83(4):581-588. 2017. IF=0.4, ORTHOPEDICS, Q4.

8. Groshar D, Bernstine H, **Goldberg N**, Nidam M, Stein D, Abadi-Korek I, Domachevsky L. Reproducibility and repeatability of same-day two sequential FDG PET/MR and PET/CT. *Cancer Imaging.* 17(11):1-9. 2017. doi:10.1186/s40644-017-0113-9. IF=4.9, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q1.

9. Domachevsky L, Leibovitzh H, Avni-Biron I, Lichtenstein L, **Goldberg N**, Nidam M, Groshar D, Bernstine H, Ben-Bassat O. Correlation of 18F-FDG PET/MRE Metrics with Inflammatory Biomarkers in Patients with Crohn's Disease: A Pilot Study. *Contrast Media Mol Imaging.* 2017:7167292.1-9.2017. doi: 10.1155/2017/7167292. IF=3.009, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q3.

10. Domachevsky L, Bernstine H, **Goldberg N**, Nidam M, Stern D, Sosna J, Groshar D. Early 68GA-PSMA PET/MRI acquisition: assessment of lesion detectability and PET metrics in patients with prostate cancer undergoing same-day late PET/CT. *Clin Radiol.* 72(11):944-950. 2017. doi:10.1016/j.crad.2017.06.116. IF=2.6, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q3.

11. Domachevsky L, Bernstine H, Nidam M, Stein D, **Goldberg N**, Stern D, Abadi-Korek I, Groshar D. Hepatic 18F-FDG Uptake Measurements on PET/MR: Impact of Volume of Interest Location on Repeatability. *Contrast Media Mol Imaging.* 2017:8639731.2017. doi: 10.1155/2017/8639731. IF=3.009, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q3

12. Aranovich D, Zilbermintz V, **Goldberg N**, Kaminsky O. Detection of Common Bile Duct Stones in Mild Acute Biliary Pancreatitis Using Magnetic Resonance Cholangiopancreatography. *Surg Res Pract.*

13. Domachevsky L, **Goldberg N**, Bernstine H, Nidam M, Groshar D. Quantitative characterization of clinically significant intra-prostatic cancer by prostate-specific membrane antigen (PSMA) expression and cell density on PSMA-11. *Eur Radiol.* 28(12):5275-5283.2018. doi: 10.1007/s00330-018-5484-1. IF=5.9, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q1.
14. Bernstine H, Domachevsky L, Nidam M, **Goldberg N**, Abadi-Korek I, Shpilberg O, Groshar D. 18F-FDG PET/MR imaging of lymphoma nodal target lesions: Comparison of PET standardized uptake value (SUV) with MR apparent diffusion coefficient (ADC). *Medicine (Baltimore).* 97(16):e0490. 1-8.2018. doi:10.1097/MD.0000000000010490. IF=1.6, MEDICINE, GENERAL & INTERNAL, Q3.
15. Stein D, **Goldberg N**, Domachevsky L, Bernstine H, Nidam M, Abadi-Korek I, Guindy M, Sosna J, Groshar D. Quantitative biomarkers for liver metastases: comparison of MRI diffusion-weighted imaging heterogeneity index and fluorine-18-fluoro-deoxyglucose standardised uptake value in hybrid PET/MR. *Clin Radiol.* 73(9):832.e17-22. 2018. doi: 10.1016/j.crad.2018.04.012. IF=2.6, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q3.
16. Sadot E, **Goldberg N**, Damoni E, Aranovich D, Kashtan H, Bitterman A, Haddad R. Laparoscopic hand-assisted liver resection for tumours in the left lateral section. *J Minim Access Surg.* 16(1):35-40. 2020. doi: 10.4103/jmas.JMAS14818. IF=0.41, SURGERY, Q4.
17. Mahamid A, Berger Y, Halim NA, **Goldberg N**, Sawaied M, Bitterman A, Sadot E, Haddad R. Hand-assisted Laparoscopic Repeat Hepatectomy for Secondary Liver Neoplasm. *Surg Laparosc Endosc Percutan Tech.* 30(3):233-237. 2020 doi:10.1097/SLE.0000000000000760. IF=1.0, SURGERY, Q4.
18. Domachevsky L, **Goldberg N**, Gorenberg M, Bernstine H, Groshar D, Catalano OA. Prostate cancer evaluation using PET quantification in ⁶⁸Ga-PSMA-11 PET/MR with attenuation correction of bones as a fifth compartment. *Quant Imaging Med Surg.*10(1):40-47. 2020. doi: 10.21037/qims.2019.11.19. IF=2.9, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q2.
19. Domachevsky L, Bernstine H, **Goldberg N**, Nidam M, Catalano OA, Groshar D. Comparison between pelvic PSMA-PET/MR and whole-body PSMA-PET/CT for the initial evaluation of prostate cancer: a proof of concept study. *Eur Radiol.* 30(1):328-336. 2020. doi: 10.1007/s00330-019-06353-y. IF=5.9, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q1.
20. Mahamid A, Sawaied M, Berger Y, Halim NA, **Goldberg N**, Abu-Zaydeh O, BittermanA, Sadot E, Haddad R. Hand-assisted Laparoscopic Surgery for Colorectal Liver Metastasis: Analysis of Short-term and Long-term Results. *Surg Laparosc Endosc Percutan Tech.* 31;31(5):543-549.2021. doi:

10.1097/SLE.0000000000000931. IF=1.1, SURGERY, Q3.

21. Sawaied M, Berger Y, Mahamid A, Abu-Zaydeh O, Verter E, Khoury W, **Goldberg N**, Sadot E, Haddad R. Laparoscopic Versus Open Simultaneous Resection of Primary Colorectal Cancer and Associated Liver Metastases: A Comparative Retrospective Study. *Surg Laparosc Endosc Percutan Tech.* 17;32(1):73-78. 2021. doi: 10.1097/SLE.0000000000001005. IF=1.1, SURGERY, Q3.

22. Abu-Zaydeh O, Sawaied M, Berger Y, Mahamid A, **Goldberg N**, Sadot E, Haddad R. Hand-Assisted Laparoscopic Surgery Is Superior to Open Liver Resection for Colorectal Liver Metastases in the Posterosuperior Segments. *Front Surg.* 25;8:746427.2021. doi: 10.3389/fsurg.2021.746427. IF=1.6, SURGERY, Q2.

23. Mahamid A, Abu-Zaydeh O, Sawaied M, **Goldberg N**, Haddad R. The Role of Preoperative Platelet-to-Lymphocyte Ratio as a Predictor for Incisional Hernias after Hand-Assisted Laparoscopic Liver Surgery for Metastatic Colorectal Cancer. *J Pers Med.* 18;12(3):492. 2022. doi: 10.3390/jpm12030492. IF=3.0, MEDICINE, GENERAL & INTERNAL, Q1.

24. Mahamid A, Abu-Zaydeh O, Mattar S, Kazlow E, Froylich D, Sawaied M, **Goldberg N**, Berger Y, Sadot E, Haddad R. Short- and Long-Term Outcomes in Elderly Patients Following Hand-Assisted Laparoscopic Surgery for Colorectal Liver Metastasis. *J Clin Med.* 20;12(14):4785. 2023. doi: 10.3390/jcm12144785. IF=3.0, MEDICINE, GENERAL & INTERNAL, Q1.

25. Rosen S, Singer C, Vaknin S, Kaim A, Luxenburg O, Makori A, **Goldberg N**, Rad M, Gitman S, Saban M. Inappropriate CT examinations: how much, who and where? Insights from a clinical decision support system (CDSS) analysis. *Eur Radiol.* 33(11):7796-7804. 2023. doi: 10.1007/s00330-023-10136-x. IF=4.7, RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING, Q1.

26. Mahamid A, Abu-Zaydeh O, Kazlow E, Froylich D, Sawaied M, **Goldberg N**, Berger Y, Khoury W, Sadot E, Haddad R. The Effects of Primary Tumor Location on Survival after Liver Resection for Colorectal Liver Metastasis in the Mediterranean Population. *J Clin Med.* 11;12(16):5242.2023. doi:10.3390/jcm12165242. IF=3.0, MEDICINE, GENERAL & INTERNAL, Q1.

Case reports

1. Wattad M, Bishara J, Goldberg N, Samra Z, Pitlik S. Thick fits Fitz. *Lancet Infect Dis.* 5(10):664. 2005. IF=5.6, INFECTIOUS DISEASES, Q1.

2. Bard V, Goldberg N, Kashtan H. Torsion of a huge accessory spleen in a 20-year-old patient. *Int J Surg Case Rep.* 5(2):67-9. 2014. IF=0.6, SURGERY, Q4.

3. Shteinberg M, Kassem S, Adir Y, Livnat G, Goldberg N. An imaging pitfall: misdiagnosis of pulmonary embolism in a patient with advanced cystic fibrosis and bronchiectasis. Lancet. 401(10373):303. 2023. IF=98.4, MEDICINE, GENERAL & INTERNAL, Q1

Review papers

15.3 Books

Monographs and textbooks

Edited Books

15.4 Book chapters

15.5 Letters to the Editor

15.6 Refereed papers in conference proceedings

15.7 Patents (granted)

15.8 Other publications

16. CONFERENCES

16.1 Plenary, keynote or invited talks

International

National

1. **Natalia Goldberg**, PET-MRI Hybrid and Personalized imaging , ISSO bi annual meeting, Israel, 2016. (Invited Talk)
2. **Natalia Goldberg**, CT and MRI imaging for IPMN, ISSO bi annual meeting, Israel, 2018. (Invited Talk)
3. **Natalia Goldberg**, Radiological assessment of pancreatic carcinoma before neoadjuvant treatment. , Joint meeting- the ISSO and IHPBA, Israel, 2018. (Invited Talk)
4. **Natalia Goldberg**, Implementation of AI in Radiology, facing the challenges in Israel, ISRA, Israel, 2023. (Invited Talk)
5. **Natalia Goldberg**, Navigation System for Percutaneous Tumor Treatment , Biannual conference of the Israeli surgical association, Israel, 2023. (Invited Talk)
6. **Natalia Goldberg**, Ablative Treatment for Renal Cancer using Robotic Guidance , The 3rd Israeli Conference on Interventional Oncology; Updates and Future Trends, Israel, 2024. (Invited Talk)

16.2 Contributed Talks and Posters

International Oral

International Poster

1. Berger Y, Neshet E, Haddad R, Tamir S, **Goldberg N**, Aranovich D, Benchimol D, Kashtan H, Sadot E., Hypophosphatemia as an early postoperative indicator of decreased major complications rate after liver resection for colorectal liver metastases., IHPBA-13th World Congress, Swaziland. 09-2018 .
2. Berger Y, Monier S , Ahmad M , Eviatar N , Shlomit T , **Goldberg N**, Benchimol D, Kashtan H, Haddad R, Sadot E, Preoperative Neutrophil to Lymphocyte Ratio as a Predictor of Outcome in Patients Undergoing resection of Colorectal Liver Metastases– A Multi-Center Study., Asian-Pacific Hepato-Pancreato-Biliary Association conference., South Korea. 09-2019 .

National Oral

1. Berger Y, Neshet E, Haddad R, Tamir S, **Goldberg N**, Aranovich D, Benchimol D, Kashtan H., Hypophosphatemia as an early postoperative indicator of decreased major complications rate after liver resection for colorectal liver metastases., ISAL, Israel. 05-2018 .

National Poster

1. Mahamid A, Berger Y, Abdul-Halim N, **Goldberg N**, Sawaied M, Bitterman A, Sadot E and Haddad R., Hand-assisted laparoscopic repeat hepatectomy for secondary liver neoplasm, Israel Surgical Society - Annual Meeting., Israel. 05-2019 .

16.3 Participation in organizing conferences

17. SIGNIFICANT PROJECTS

18. NOTES