

Curriculum Vitae

Name: **Ran Lador, MD**
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Home Address: 4905 Pine St. Bellaire TX, 77401
Birth date: December 20th, 1975
Marital Status: Married, two children

A. Education and Training:

- 2018-2019 Spine Neuro Oncology Fellowship – MD Anderson Cancer Center, Houston, Texas.
- 2015: Spine oncology Fellowship at the Oncologic and Degenerative Spine Surgery Department, Istituto Ortopedico Rizzoli , Bologna, Italy – Dr. Boriani
- 2010-2015 Residency in orthopedic surgery. Tel-Aviv medical center, Israel
- 2009-2010: Research fellowship at the Spine unit, Orthopedic Surgery Department, Baylor College of Medicine, Houston, Texas, USA.
- 2008-2009: Rotating Internship, Chaim Sheba Medical Center, Tel-Hashomer Hospital Israel.
- 2004-2008: MD – Doctor of medicine - Hebrew University – Hadassah School of Medicine, Jerusalem.
- 2001-2003: B.Med.Sc - Bachelor of Medical Sciences - Hebrew University – Hadassah School of Medicine, Jerusalem.

B. Academic Degree and Professional experience

- Assistant Professor – Orthopedic surgery, UTHealth Houston, McGovern school of Medicine, Houston, Texas.
Surgical director - Spine oncology program at Memorial-Hermann Hospital system
- Assistant professor - Sackler Faculty of Medicine, Tel Aviv University. Not active.
- Clinical Instructor of Orthopedic Surgery & Traumatology for Orthopedic residents, Sackler Faculty of Medicine, Tel Aviv University.
- Orthopedic Clerkship Tutor for 3rd & 5th year medical Students Israeli & American Program, Sackler Faculty of Medicine, Tel Aviv University.
- Clinical Instructor of Orthopedic Surgery & Traumatology for Operating Room nurses, The Sheinboum School for Nurses, Tel-Aviv Sourasky Medical Center.

- Lecturer at the introduction to orthopedics course for medical students - Sackler Faculty of Medicine, Tel Aviv University
- Member of the evaluation committee for medical students of the Sackler faculty of Medicine

C. Member of Editorial Board/ Reviewer (International Journals)

- Spine – Reviewer
- The Spine Journal - Reviewer
- European Journal of Surgical Oncology - Reviewer
- Scientific pages of Neuro-oncolgy – Reviewer
- World journal of Surgical Oncology - Reviewer

D. Membership and affiliation with medical societies and organizations:

NASS – North American Spine Society – member since 2010

AO Spine – member since 2011

IOA – Israel Orthopedic Association – member since 2010

ISS -Israeli Society for Spine Surgery – member since 2016

E. Postgraduate Certification & Licensure:

- 2009-2010: Spine research fellowship, Orthopedic Surgery Department, Baylor College of Medicine, Houston, Texas, USA.
- 2010: AO Trauma – principles in Operative Fracture Management
- 2010: ACLS – Advanced Cardiac Life Support
- 2010: ATLS – Advanced Trauma Life Support
- 2010: MTLS –Military Trauma Life Support
- 2010: GLP – Good clinical Practice - animal research
- 2012: AO Spine – principles course – Trauma and Degenerative Spine
- 2015: Israeli Board Certified Orthopedic Surgeon
- 2015: Fellowship at the Oncologic and Degenerative Spine Surgery Department, Istituto Ortopedico Rizzoli – Dr. Boriani
- 2017: GCP – Good clinical practice
- 2017: ECFMG certified – certification number – 0-748-471-0
- 2018-2019: Spine Neuro Oncology Fellowship – MD Anderson Cancer Center, Houston, Texas.

F. Publications:

1. Lador R, Ben-Galim P, Hipp JA. Motion Within the Unstable Cervical Spine During Patient Maneuvering: The Neck Pivot-Shift Phenomenon. *Journal of Trauma-Injury Infection & Critical Care*: January 2011 - Volume 70 - Issue 1 - pp 247-251
2. Lador R. Ben-Galim P, Weiner BK, Hipp JA. The association of occipitocervical dissociation and death as a result of blunt trauma. *the Spine Journal* 2010;10(12):1128-32.
3. Lador R, Dreiangel N, Ben-Galim P, Hipp JA. A pictorial classification Atlas of cement extravasation with vertebral augmentation. *the Spine Journal* 2010;10(12):1128-32.
4. Lador R, leiberman S, Reitman CA, Ben-Galim P, Hipp JA. A cadaver study to compare vertebral augmentation with a high-viscosity cement to augmentation with conventional lower-viscosity cement. *Clinical Spine Surgery* 26.2 (2013): 68-73.
5. Lador R, Ben-Galim P, Deiangel N, Hipp JA. Cement infiltration and extravasation – What is it? A Cadaver study. *The spine Journal* 2010;10(9)supp;30
6. Eubanks A, Hipp JA, Lador R et al. Reference data for assessing widening between spinous processes in the cervical spine and the responsiveness of these measures to detecting abnormalities. *The Spine Journal* 2010;10(3):230-237.
7. Dreiangel N, Ben-Galim P, Lador R et al. Occipito-Cervical dissociative injuries: Common in blunt trauma fatalities and better detected with objective CT-based measurements. *The Spine Journal* 2010;10(8):704-7.
8. Jackson E, Lador R, Ben-Galim P et al. Reference Data for Interpreting Widening between Spinous Processes in the Lumbar Spine. *the Spine Journal* 11(4); Apr 2011: 336-9.
9. Chechik O, Inbar R, Danino B, Lador R, Greenberg R, Avital S. Anti platelet therapy is not associated with increased blood loss in patients undergoing open or laparoscopic appendectomy. *IMAJ* 13;Jun 2011:342-4 .
10. Drexler M, Elbaz A, Mor A, Debi R, Debbi EM, Haim A, Lador R, Salai M, Segal G. Effects of a customized biomechanical therapy on patients with medial compartment knee osteoarthritis. *Annals Physical & Rehabilitation Medicine* 2012 55(4): 213-28.
11. Chechik O, Amar E, Khashan M, Lador R, Eyal G, Gold A. An international survey on anterior cruciate ligament reconstruction practice. *International orthopedics*. 2012 Jul 11.
12. Lador R, Meir G, Chechik O, Drexler M, et al. A non-invasive biomechanical therapy improves objective and subjective measurements of pain and function in patients with knee osteoarthritis: A retrospective analysis Accepted for publication. *Current Orthopaedic Practice* 24.6 (2013): 674-680.
13. Chechic O, Khashan M, Lador R et al. Surgical approach and prosthesis fixation in hip arthroplasty world wide. *Archives of orthopedic and trauma surgery* 2013 133(11):1595-1600.
14. Gil E, Khashan M, Lador R et al. Do orthopaedic surgeons resurface the patella? *Current orthopedic practice* 2014 (25): 61-3.
15. Amar E, Khashan M, Lador R et al. Lateral epicondylitis treatment: International survey of Surgeons' preferences and literature review". *International journal of clinical practice* 68.11 (2014): 1383-1387.

16. Khashan, M, Amar E, Lador R et al. "Orthopaedic surgeons prefer new expensive technology for treatment of hip fractures: an international survey on the surgical practices." *Current Orthopaedic Practice* 25.4 (2014): 342-346.
17. Abu-Ghanem Y, Khashan, M, Abu-Ghanem S, Lador R et al. Perceptions of orthopaedic surgeons regarding arthroscopic surgery for osteoarthritis of the knee - an international survey. *Current Orthopaedic Practice* 26.1 (2015): 32-35
18. Herman, Amir, Chechik, O., Segal, G., Kosashvili, Y., Lador, R., et al. "The correlation between radiographic knee OA and clinical symptoms—do we know everything?." *Clinical rheumatology* (2015): 1-6.
19. Herman, A., Chechik, O., Segal, G., Kosashvili, Y., Lador, R., et al. "Gender differences in the relations between clinical questionnaires and radiographic grades in knee osteoarthritis. A cross-sectional evaluation of 518 patients." *Osteoarthritis and Cartilage* 23 (2015): A336.
20. Boriani S, Gasbarrini A, Bandier S, Ghermandi R, and Lador R. Predictors for Surgical Complications of en bloc resections in the spine – review of 220 cases treated by the same team. *ESJ* Mar 2016 (14)1-10.
21. Lador, Ran, Stefano Bandiera, Alessandro Gasbarrini, Riccardo Ghermandi, and Stefano Boriani. "Treatment of spinal tumors in a high volume center has direct impact on local recurrence, morbidity, and mortality." *Clinical spine surgery* 30, no. 8 (2017): E1074-E1081.
22. Lador, Ran, Alessandro Gasbarrini, Marco Gambarotti, Stefano Bandiera, Riccardo Ghermandi, and Stefano Boriani. "Surgeon's perception of margins in spinal en bloc resection surgeries: how reliable is it?." *European Spine Journal* 27, no. 4 (2018): 868-873.
23. Boriani, Stefano, Alessandro Gasbarrini, Stefano Bandiera, Riccardo Ghermandi, and Ran Lador. "En bloc resections in the spine: the experience of 220 patients during 25 years." *World Neurosurgery* 98 (2017): 217-229.
24. Khashan, M., Lidar, Z., Salame, K., Mangel, L., Lador, R., Drexler, M., ... & Regev, G. J. (2016). Minimally invasive spinal decompression in patients older than 75 years of age: Perioperative risks, complications and clinical outcomes compared with patients younger than 45 years of age. *World Neurosurgery*. 89 (2016): 337-342
25. Regev G, Kim CW, Salame K, Behrbalk E, Keynan O, Lador R, et al. A Comparison of Different Minimally Invasive and Open Posterior Spinal Procedures Using Volumetric Measurements of the Surgical Exposures. *Clinical spine surgery*, 2016.
26. Regev, G. J., Kim, C. W., Salame, K., Behrbalk, E., Keynan, O., Lador, R., ... & Lidar, Z. (2017). A Comparison of Different Minimally Invasive and Open Posterior Spinal Procedures Using Volumetric Measurements of the Surgical Exposures. *Clinical spine surgery*, 30(9), 425-428.
27. Regev G, Lador R, Saleme K, et al. Minimally invasive spinal decompression surgery in diabetic patients: perioperative risks, complications and clinical outcomes compared with non-diabetic patients' cohort *European spine Journal*, (2018) 1-6.
28. Lador, Ran, Gilad Regev, Khalil Salame, Morsi Khashan, and Zvi Lidar. "Use of 3-dimensional printing technology in complex spine surgeries." *World neurosurgery* 133 (2020): e327-e341.
29. K Salame, A Grundshtein, G Regev, M Khashan, R Lador, Z Lidar. Acute Presentation of Cervical Myelopathy following Manipulation Therapy. *IMAJ* (2019) 21;542-5.
30. K Chan, N Li, R Lador et al. Belzutifan, HIF-2 α inhibitor and Clear Cell Renal Cell Carcinoma with Somatic Von-Hippel-Lindau Loss-of-function

Mutation – submitted to the Journal of Oncology Pharmacy Practice – 2023.

G. **Books and Book Chapters**

1. Ran Lador MD, Stefano Bandiera MD, Alessandro Gasbarrini MD, Riccardo Ghermandi MD, and Stefano Boriani MD. Primary Tumors of the Spine. Chapman's comprehensive orthopaedic surgery, fourth edition. In print

H. **Lectures and active academic participations:**

1. 2009 – What you should know about occipitocervical injuries: Can you see an OC? – Grand Round, Orthopedic Surgery Department, Baylor College of Medicine, Houston, Texas, USA.
2. 2010 - Cement extravasation – what is it? A cadaver study. Focused Paper Presentation presented at the 25th Annual NASS meeting, Oct. 2010 Orlando, Florida USA.
3. 2011 - Cervical Dissociative Injuries: Common in blunt trauma fatalities. Oral presentation at the AAOS meeting, Feb. 2011, San-Diego, California, USA.
4. 2011 - Distraction in the Occipito-cervical spine in patients with dissociative injuries. Oral presentation at the AAOS meeting, Feb. 2011, San-Diego, California, USA.
5. 2011 – CT assessment of lumbar fusion – oral presentation at the AAOS meeting, Feb. 2011, San-Diego, California, USA.
6. 2010 - : The Neck Pivot-Shift Phenomenon -New Mechanism for Secondary Damage in an Unstable Cervical Spine. Oral presentation at the Israeli Orthopedic Association meeting Dec. 2010.
7. 2010 - What is really vertebroplasty Cement Extravasation? - New classification and novel pictorial atlas. Oral presentation at the Israeli Orthopedic Association meeting Dec. 2010.
8. 2011 – The neck pivot shift phenomenon –e-poster presentation at the EFFORT meeting Jun, 2011. Copenhagen Denmark.
9. 2011 – A non-invasive biomechanical therapy improves objective and subjective measurements of pain and function in patients with knee osteoarthritis. Poster presentation at the 2011 OARSI conference, San-Diego CA USA.
10. 2011 - A non-invasive biomechanical therapy improves objective and subjective measurements of pain and function in patients with knee osteoarthritis. Paper presentation at the 2011 Israel society of SPORTS medicine, Tel-Aviv, Israel
11. 2011 - A non-invasive biomechanical therapy improves objective and subjective measurements of pain and function in patients with knee osteoarthritis. Paper presentation at the 2011 Israel Orthopedic Association, Tel-Aviv, Israel.
12. 2012 - The Neck Pivot-Shift Phenomenon -New Mechanism for Secondary Damage in an Unstable Cervical Spine. Scientific exhibit presentation at the AAOS meeting, Feb. 2012, San-Francisco, California, USA.

13. 2013 - A new abnormal gait pattern in lumbar spinal stenosis patients. Presented as an E-poster in the Global Spine conference – 2013 - Hong Kong
14. 2015 – morbidity in en-bloc resection of spine tumors. Oral presentation 2015 Bologna-Budapest spine meeting, Bologna, Italy.
15. 2016 – Low back pain in the community. Oral presentation - Cardiac rehabilitation meeting. Tel-Aviv 2016.
16. 2016 – lecture on the management of low back pain for medical students – introduction to orthopedics course – Tel-Aviv Sacklar medical school, Tel-Aviv.
17. 206 – Lecture on low back pain to the Neurology and Neurosurgery course for postdoc training – Tel-Aviv medical school
18. 2016 – Physical examination of the cervical spine. Oral presentation and hands on teaching – physical examination Course for Rheumatologists. Tel-Aviv 2016.
19. Use of 3D printing Technology in Complex spine surgery – Israeli spine society meeting, Eilat – 2017.
20. Outcomes and complications of percutaneous and open lumbopelvic fixation for traumatic lumbopelvic dissociation. Oral presentation, Western Orthopedic Association meeting Hawaii 2022.
21. Is Routine Use of External Spinal Orthoses Necessary After Operative Stabilization of Cervical Spine Injuries? Oral presentation, Western Orthopedic Association meeting Hawaii 2022.
22. Use of Radio-Lucent Carbon Fiber Instrumentation for Spine Tumors – Oral presentation, Western Orthopedic Association meeting Hawaii 2022.
23. Advanced techniques in spine tumor surgery course – faculty – Houston 2022
24. Surgical Techniques in spine tumors – clinical and surgical skills lab, Spine Tumor Course, Houston, 2022.
25. Biomechanics in spine oncology - Case discussion – Spine Therapy Society annual meeting, Dallas 2023.
26. Is Routine Use of External Spinal Orthosis Necessary After Operative Stabilization of Cervical Spine Injuries – Cervical Spine Research society annual meeting, Las Vegas 2023.
27. Motion preserving spine surgeries – grand round at Memorial Hermann Rockets Hospital. Houston, Jan 2024.

I. Grants and awards:

- American Healthcare Professionals \$ Friends for Medicine in Israel – 2500\$ for promoting spine oncology - 2018.
- Israel Cancer Association – 7000\$ for promoting spine oncology in Israel - 2018.
- Tel-Aviv Medical Center – OFEK prize for outstanding physicians and medical leaders – 10000\$ - 2018.
- Herzelia Medical Center – Grant for excellence in spine surgery – 7000\$ - 2018.

J. Ongoing Research:

- Effect of osteo-integration on the biomechanics of the pelvis and lumbar spine – a Department of Defense funded research – submitted for DOJ funding.
- New multi-modal ultrasound imaging methods for long bone regeneration longitudinal analysis and early prognosis – submitted for an NIH funding.

K. Occupational experience and clinical appointments:

2021-present: Surgical director, Spine oncology program at Memorial-Hermann Hospital system.

2020–present: Attending spine surgeon- Assistant professor, Orthopedic surgery department, UTHealth Houston, McGovern School of Medicine, Houston, Texas.

2018-2019: Spine Neuroncology fellowship – MD Anderson Cancer center, Houston Texas.

2015-2018: Attending spine surgeon – Assistant professor. Spine unit, Tel-Aviv medical center, Israel

2010-2015: Orthopedic surgery – resident, Tel-Aviv medical center, Israel

2003-2008: MER (medical emergency responder), "Nofey Yerushalaim" Home for the Aged.

2001-2003: Instructor - psychometric test preparation course, "Kidum Ltd".

2000-2001: Lifeguard, "Four Points Hotel", Jerusalem.

L. Military service:

2012-2017: Reserve duty as a military surgeon (Lt. Commander).

2000-2012: Reserve duty as a naval officer, Israeli Navy.

2000: Retired from the Israeli Navy at the rank of Lt. Commander.

1998-2000: Executive Officer (XO), Naval Special Forces Unit, Israeli Navy.

1996-1998: Patrol Ship Commander (CO) and squadron leader, Israeli Navy.

1994-1996: Naval Officer's Course - IDF Naval Academy

M. Hobbies & interests:

Swimming.

Running.

Flying – PPL (private pilot licensed)

Scuba Diving – PADI Instructor – not active.

Ran Lador, MD March 11, 2024

Sailing – international Yacht Skipper license.