

CURRICULUM VITAE

Irit Duek MD

Specialist in Otolaryngology Head and Neck Surgery

LICENSURE

2013 License to Practice Medicine - Ministry of Health, Israel (1-121096)

2020 Specialist in Otolaryngology Head and Neck Surgery - Ministry of Health, Israel (1-40723)

ACADEMIC DEGREES

2013 Medical Doctor, *Cum Laude* - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel

2008 Bachelor of Science in Medical Sciences, *Summa Cum Laude* - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel.

MD THESIS

Stability and bioavailability of vitamin D nano-encapsulated in casein micelles.

Guidance by Prof. Ish-Shalom, M.D, the Head of the Metabolic Bone Diseases Unit at Rambam Medical Center in Haifa, Israel, Bruce Rappaport Faculty of Medicine - Technion, The Israel Institute of Technology, 2012.

HONORS AND AWARDS

2003 Israel Ministry of Education award for Excellent High-school Graduate

2005/2006 Winter semester - Dean's award for excellence - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel
2005/2006 Spring semester - Dean's award for excellence - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel
2006/2007 Winter semester - Dean's award for excellence - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel
2006/2007 Spring semester - *Technion's President award* for excellence - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel

2007/2008 Winter semester - Dean's award for excellence - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel

2007/2008 Spring semester - Dean's award for excellence - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel

2008 Bachelor of Science in Medical Sciences, *Summa Cum Laude* - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel.

2013 Medical Doctor, *Cum Laude* - Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel

2013 Excellent MD Thesis, Bruce Rappaport Faculty of Medicine, Technion, Israel Institute of Technology, Haifa, Israel

PROFESSIONAL EXPERIENCE

- Since 03.2022 Specialist in Otolaryngology Head and Neck Surgery, A.R.M Medical center.
- 05.2021-05.22 Fellowship in innovation and entrepreneurship in medicine - The Israeli Society for HealthTech
- 11.2020-05.22 Specialist, Laryngology fellow, Department of Otolaryngology Head and Neck and Maxillofacial Surgery, the Interdisciplinary Center for Head and Neck Surgical Oncology, Tel-Aviv Sourasky Medical Center, affiliated to the Sackler Faculty of Medicine, Tel-Aviv University
- Since 11.2020 Specialist in Otolaryngology Head and Neck Surgery, community clinic, Kupat-holim "Clalit".
- 06.2018-06.2020 Resident, Department of Otolaryngology Head and Neck and Maxillofacial Surgery, the Interdisciplinary Center for Head and Neck Surgical Oncology, Tel-Aviv Sourasky Medical Center, affiliated to the Sackler Faculty of Medicine, Tel-Aviv University.
- 12.2013-06.2018 Resident, Head and Neck center, Department of Otolaryngology, Head and Neck Surgery, Rambam Medical Center, affiliated to Rappaport School of Medicine, The Technion, Haifa, Israel.
- 05-12.2013 Resident, Department of Otolaryngology, Head and Neck Surgery, Carmel Medical Center, Haifa, Israel.
- 2012-2013 Internship, Western Galilee Hospital, Nahariya, Israel.
- 2010-2011 Assistant Physician, Internal Department and Emergency Room, Carmel Medical Center, Haifa, Israel.

LABORATORY EXPERIENCE

- 11.2017-05.2018 Basic science project at Prof. Ze'ev Ronai's lab at the Technion integrated cancer center, Israel institute of technology, Rappaport medical school, Haifa, Israel - The Role of Endoplasmic Reticulum Stress Signaling in Head and Neck Mucosal Melanoma.
- 12.2013-2017 Member at the Laboratory for Applied Cancer Research, the Clinical Research Institute, Rambam Health Care Campus, The Technion, Haifa, Israel.

Experience with: Immunohistochemistry staining (H&E, fluorescent), Genotyping, Animals tumor induction and operation, Digital pathology analysis, Image analysis. Cell culturing and manipulation, protein and RNA extraction, Western blotting, RT-PCR.

HealthTech EXPERIENCE

- 05.21-05.22 Fellowship in innovation and entrepreneurship in medicine - The Israeli Society for HealthTech
- 01.06.2021-31.10.2021 Internship in Pluristem Therapeutics Inc. MATAM Advanced Technology Park, Haifa, Israel
- 01.11.2021-31.03.2022 Internship in Insightec, Haifa, Israel

ADDITIONAL PROFESSIONAL ENRICHMENT

- 01.2022 Advanced Cardiac Life Support (ACLS) Provider Course
- 10.21-01.22 Continuing Education in Otolaryngology Head and Neck Surgery, The Sackler Faculty of Medicine at Tel Aviv University
- 10.20-05.21 Continuing Education in Otolaryngology Head and Neck Surgery, The Sackler Faculty of Medicine at Tel Aviv University
- 02.2020 Pediatric airway management course. Tel-Aviv Souraski Medical Center
- 12.2019 Advanced Cardiac Life Support (ACLS) Provider Course
- 10.19-05.20 Continuing Education in Otolaryngology Head and Neck Surgery, The Sackler Faculty of Medicine at Tel Aviv University
- 09.2019 The 2nd International Thyroid/Parathyroid US Course, Hillel Yaffe Medical Center, Hadera, Israel
- 09.2019 Hands-On Fresh Cadaveric Head and Neck Surgery Course, The Sackler Faculty of Medicine at Tel Aviv University, Tel Aviv, Israel - Theoretical section only
- 09.2019 The 4th Hands-On Fresh Cadaveric Endoscopic Sinus Surgery (From basic to advanced), The Sackler Faculty of Medicine at Tel Aviv University, Tel Aviv, Israel - Theoretical section only
- 08.2019 The TASMTC Transoral Thyroid and Parathyroid Live Surgery Course. Tel-Aviv Souraski Medical Center (Invited Guest: Kyung Tae MD, Professor, Department of Otolaryngology-Head and Neck Surgery, College of medicine, Hanyang University, Seoul, Korea)
- 10.2017-01.2018 Continuing Education in Otolaryngology Head and Neck Surgery, The Sackler Faculty of Medicine at Tel Aviv University

- 07.2017 Good Clinical Practice (GCP) course - Rambam medical center
- 03.2017 Advanced Cardiac Life Support (ACLS) Provider Course
- 02.2016 Da Vinci surgical system online training module consisting of basic introductory information regarding DV Si Modules for residents, fellows and first assists
- 07.2015 Advanced Trauma Life Support (ATLS) and Military Trauma Life Support (MTLS) provider course, Israel Defense Force, School of military medicine
- 01.2015 Ultrasound-guided central venous catheter insertion course, Rambam Knowledge Center
- 11.2013 Neck Dissection Instructional Course, by Prof. Jesus Medina (USA) and Prof. Khee Chee Soo (Singapore), at ISHNOS 2013 Annual meeting, Dead Sea, Israel (The Israel medical association, The Israeli society of head and neck surgery and oncology)
- 09.2013 Transoral Laser and Robotic Surgery for Head and Neck Tumors. Rambam Health Care Campus, Haifa, Israel.
- 2012 Advanced Cardiac Life Support (ACLS) Provider Course, MSR. Israel Center for Medical simulation

PUBLICATIONS

1. Haham M, Ish-Shalom S, Nodelman M, **Duek I**, Segal E, Kustanovich M, Livney YD. Stability and bioavailability of vitamin D nanoencapsulated in casein micelles. *Food Funct.* 2012;3(7):737-44.
2. **Duek I**, Billan S, Amit M, Gil Z. Transoral robotic surgery in the HPV era. *Rambam Maimonides Med J.* 2014;5(2):e0010.
3. **Duek I**, Bishara T, Gil Z, Cohen JT. Transoral robotic approach for resection of a giant hypopharyngeal fibroma. *IMAJ.* 2017;19(2):121-2.
4. **Duek I**, Amit M, Svirgi GE, Gil Z. Combined endoscopic transcervical - transoral robotic approach for resection of parapharyngeal space tumors. *Head Neck.* 2017;39(4):786-90.
5. **Duek I**, Svirgi GE, Gil Z. Endoscopic endonasal repair of internal carotid artery injury during endoscopic endonasal surgery. *J Neurol Surg Rep.* 2017;78(4):e125-8.

6. **Duek I**, Cohen JT, Gil Z. Unilateral vocal cord paralysis of a great Jewish opera singer. *Rambam Maimonides Med J*. 2018;9(1).
7. **Duek I**, Svirgi GE, Billan S, Gil Z. Minimally invasive surgery for resection of parapharyngeal space tumors. *J Neurol Surg B Skull Base*. 2018;79(3):250-6.
8. **Duek I**, Paker M, Gil Z, Cohen JT. Warthin tumor of the larynx - a case report and review of the literature. *ENTJ*. 2018; 97(7):E8-11.
9. **Duek I**, Pener-Tessler A, Yanko-Arzi R, Zaretski A, Abergel A, Safadi A, Fliss DM. Skull base reconstruction in the pediatric patient. *J Neurol Surg B Skull Base*. 2018;79(1):81-90.
10. **Duek I**, Lopchinsky R, Akrish S, Gil Z. Iatrogenic seeding of osteosarcoma in a tracheotomy tract - a case report. *Clinical Case Reports*. 2018;6(3):494-8.
11. Paker M, **Duek I**, Benyamini L, Gil Z, Cohen JT. Long term swallowing performance following transoral robotic surgery for obstructive sleep apnea. *Laryngoscope*. 2019;129(2):422-8.
12. **Duek I**, Gil Z, Solt I. Modified ex-utero intra-partum treatment (EXIT) procedure in a Pierre Robin fetus with severe micrognathia and cleft palate. *Clinical Case Reports*. 2018;6(11):2040-4.
13. **Duek I**, Fliss DM. Unique considerations in pediatric skull base surgery. *Operative Techniques in Otolaryngology - Head and Neck Surgery*. 2019;30:2-8.
14. Shamai G, Binenbaum Y, Slossberg R, **Duek I**, Gil Z, Kimmel R. Artificial Intelligence Algorithms to Assess Hormonal Status from Tissue Microarrays in Patients with Breast Cancer. *JAMA Network Open*. 2019;2(7):e197700.
15. Yafit D, **Duek I**, Abu-Ghanem S, Ungar OJ, Wengier A, Moshe-Levyn H, Yanko-Arzi R, Zaretski A, Margalit N, Abergel A, Muhanna N, Fliss DM. Surgical approaches for infratemporal fossa tumor resection: Fifteen years' experience of a single center. *Head and Neck*. 2019;41(11):3755-63.
16. **Duek I**, Duek OS, Fliss DM. Minimally invasive approaches for thyroid surgery - Pitfalls and promises. *Current Oncology Reports*. 2020;22(8):77.
17. Carmel-Neiderman NN*, **Duek I***, Amsterdam D, Wengier A, Kuzmenko B, Ringel B, Warshavsky A, Shapira U, Horowitz G, Izhakov E, Fliss DM. Total thyroidectomy with therapeutic level II-IV neck dissection for papillary thyroid carcinoma: level VI recurrence patterns. *European Archives of Oto-Rhino-Laryngology*. 2020;277(12):3449-55.

***Equal contribution**

18. Wolf R*, Ringel B*, Zissman S, Shapira U, **Duek I**, Muhanna N, Horowitz G, Zaretski A, Yanko R, Derowe A, Abergel A, Gur E, Fliss DM. Free flap transfers for head and neck and skull base reconstruction in children - Long term outcomes. *International Journal of Pediatric Otorhinolaryngology*. 2020;138:110299.
*Equal contribution
19. **Duek I**, Fliss DM. The COVID-19 pandemic - from great challenge to unique opportunity: Perspective. *Ann Med Surg (Lond)*. 2020;59:68-71.
20. Carmel-Neiderman NN*, Baris H*, **Duek I**, Warshavsky A, Ringel B, Izhakov E, Horowitz G, Fliss DM. Lateral neck dissection for well-differentiated thyroid carcinoma - is prophylactic level V neck dissection necessary? A retrospective cohort study. *Ear Nose Throat J*. 2021. doi:10.1177/01455613211003805.
Online ahead of print.
*Equal contribution
21. Carmel-Neiderman NN*, **Duek I***, Ravia A, Ringel B, Warshavsky A, Horowitz G, Fliss DM. The incidence of postoperative Re-stratification for recurrence in Well-differentiated thyroid cancer. *Gland Surgery*. 2021;10(8):2354-67.
***Equal contribution**
22. **Duek I**, Oron Y, Handzel O, Abu Eta R, Muhanna N, Warshavsky A, Horowitz G, Ungar OJ. To Patch or not to Patch Acute Isolated Traumatic Tympanic Membrane Perforations: A Case Series and Systematic Literature Review. *Eur Arch Otorhinolaryngol*. 2022;279(9):4313-23.
23. Cohen JT, Fridman E, Trushin V, Benyamini L, **Duek I**, Shinnawi S, Keshet Y, Cohen A, Paker M. The role of voice rest after micro-laryngeal surgery for benign vocal fold lesions. *Eur Arch Otorhinolaryngol*. 2022;279(2):835-42.
24. Carmel-Neiderman NN*, **Duek I***, Kuzmenko B, Ringel B, Warshavsky A, Muhanna N, Horowitz G, Fliss DM. Histopathological Characteristics of N1b Papillary Thyroid Carcinoma are Associated with Risk of Recurrence. *World Journal of Surgery*. 2022;46(8):1917-25.
***Equal contribution**
25. **Duek I***, Matot S*, Baniel A, Carmel-Neiderman NN, Wasserzug O, Oestreicher-Kedem Y. Ear-looped face masks associated retro-auricular abscesses during the COVID-19 pandemic. *JEADV Clin Pract*. 2023. doi: 10.1002/jvc2.114. *Online ahead of print*.
***Equal contribution**

26. **Duek I**, Muhanna N, Horowitz G, Warshavsky A, Oron Y, Shraga Y, Ungar OJ. Fast-tracking of publication times of otolaryngology papers during the COVID-19 pandemic. *Indian J Otolaryngol Head Neck Surg.* 2022;8:1-7. doi: 10.1007/s12070-022-03300-0. *Online ahead of print.*

BOOK CHAPTERS

Litvin M, Eran A, **Duek I**, Lopez R, Gutierrez A, Gaitini D. Imaging of the Airway. Web Course: Master in Airway Control, University of Valencia, Spain. 2016. www.masterviaaerea.com

Amit M, **Duek I**, Gil Z. Transoral robotic resection of parapharyngeal space tumors. In: Atlas of Head and Neck Robotic Surgery. Editors: Gil Z, Amit M, Kupferman EM. Springer 2017. Chapter 13; p 123-132.

First Author of **Cases 14-21** (8 Chapters) In: Puzzling Cases in Otolaryngology, Publisher: Tree Life Media (a division of Kothari Medical), Mumbai, India. Editor: Chris de Souza. 2019. p 101-152.

Cavel O, Fliss DM, **Duek I**. The Distinctive Anatomical Features of the Pediatric Skull Base. In: Atlas of Pediatric Head and Neck and skull base surgery. 1st Edition. Editors: Fliss DM and Derowe A. Stuttgart: Thieme Publishers. 2020. Chapter 2. p 28-33.

Duek I, Fliss DM. Ethmoid and Anterior Skull Base Neoplasms. In: Head and Neck Surgery. Vol I & Vol II, second edition. Editors: Pankaj Chaturvedi, Richard Wong, Rahul Modi, Chris de Souza. Thieme Publishers. 2021. *In print.*

Brook I, **Duek I**. Hebrew translation to “The laryngectomy guide”. eBook (FREE): <http://bit.ly/3ZICX4J>

POSTER PRESENTATION AT SCIENTIFIC MEETINGS

The Combined Endoscopic Transcervical - Transoral Robotic Approach for Resection of Parapharyngeal Space Tumors. Duek I, Amit M, Sviri GE, Gil Z. *ISHNOS 2014 Annual Conference*. The Israeli society of head and neck oncology and surgery, The Israel medical association. Ramot, Israel.

Endoscopic Repair of Carotid Artery Injury. Duek I, Sviri GE, Amit M, Gil Z. *The Annual Meeting of the Israeli Society of Otolaryngology, Head and Neck Surgery*. March 2016. Eilat, Israel.

Transoral Robotic Approach for Resection of a Giant Hypopharyngeal Fibroma - a case report. Duek I, Bishara T, Gil Z, Cohen JT. *The Annual Meeting of the Israeli Society of Otolaryngology, Head and Neck Surgery*. March 2016, Eilat, Israel.

The Combined Endoscopic Transcervical - Transoral Robotic Approach for Resection of Parapharyngeal Space Tumors - case series. Duek I, Amit M, Svir GE, Gil Z. *ISHNOS 2016 Annual Conference*. The Israeli society of head and neck oncology and surgery, The Israel medical association. Hagoshrim, Israel.

Iatrogenic Seeding of Osteosarcoma in a Tracheotomy Tract - a case report. Duek I, Lopchinsky R, Gil Z. *ISHNOS 2017 Annual Conference*. The Israeli society of head and neck oncology and surgery, The Israel medical association. Galilion, Israel.

ORAL PRESENTATION AT SCIENTIFIC MEETINGS

Sinonasal Rhabdomyosarcoma - case presentation. Duek I. *8th Annual Meeting, Northern Head and Neck Forum*. "Radiation Therapy in Head and Neck Sarcomas". Guest lecturer Prof. Brian O'Sullivan, MD, Chair, Department of Radiation Oncology, and Multidisciplinary Head and Neck Oncology Site Team. Princess Margaret Hospital, University of Toronto, Canada. September 2016. Dan Carmel, Haifa, Israel.

Orbital Ewing's Sarcoma - case presentation. Duek I. *9th Annual Meeting, The Northern Head and Neck Forum*. "Maxillofacial and Skull Base Tumors Treatments". Guest lecturer Prof. Carl Snyderman, MD, Professor of Otolaryngology and neurological surgery, University of Pittsburgh School of Medicine, Co-director of the Center for Cranial Base Surgery at the University of Pittsburgh Medical Center (UPMC). November 2016. Crown Plaza, Haifa, Israel.

Warthin Tumor of the Larynx - a Case Report and Review of the Literature. Duek I, Paker M, Gil Z, Cohen JT. *ISHNOS 2016 Annual Conference*. The Israeli society of head and neck oncology and surgery, The Israel medical association. November 2016. Hagoshrim, Israel.

The Combined Endoscopic Transcervical - Transoral Robotic Approach for Resection of Parapharyngeal Space Tumors - case series. Duek I, Amit M, Svir GE, Gil Z. *The Annual Meeting of the Israeli Society of Otolaryngology, Head and Neck Surgery*. March 2017. Eilat, Israel.

Transoral Robotic Surgery for Obstructive Sleep Apnea: Our experience and long-term outcomes in 39 procedures. Duek I, Gil Z. *The Annual Meeting of the Israeli Society of Otolaryngology, Head and Neck Surgery*. March 2017. Eilat, Israel.

LANGUAGES

Hebrew - First language

English - Speaking and writing at a good level

Spanish - Speaking at a good level