Madara Ratniece
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PROFILE

Dedicated and research-driven Radiology Resident with clinical experience, multiple peer-reviewed publications, and hands-on involvement in national imaging research grants with contributions to oncology research, including AI applications and diagnostic imaging protocols.

EDUCATION

Radiology Residency
Pauls Stradins Clinical University Hospital, Riga, Latvia (Oct 2023 – Present)

Medical Doctor (MD)
Riga Stradins University (RSU), Riga, Latvia (2017 – 2023)

CLINICAL & RESEARCH EXPERIENCE

Radiology Resident

- PSKUS, FuturaClinic, Ogres Hospital, and Skrides Heart Clinic (2023 – Present)

Scientific Laboratory Technician

- RSU Radiology Research Laboratory (2020 – Present)
- Involved in national and institutional research on prostate cancer, renal lesions, stroke perfusion, and AI diagnostics

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AWARDS & HONORS

- 🏅 1st Place, ISC 2021 – MRI in colorectal cancer
- 🏅 1st Place, SIMC 2021 – MRI in therapy response evaluation
- 🏅 2nd Prize, RSU Anatomy Conference – Jugular vein variability
- 🏅 2nd Place, Craiova Medical Students Conference – CD8+ in colorectal cancer

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PUBLICATIONS

- *Recurrence risk factors after surgical treatment for renal cell carcinoma*
  DOI: 10.1016/S2666-1683(23)00295-1
- *Role of contrast enhancement CT in determining Renal clear cell histological type*
  DOI: 10.1016/S2666-1683(23)00298-7

- *Recurrent Prostate Cancer Diagnostics with 18F-PSMA-1007 PET/CT: A Systematic Review*
  DOI: 10.3390/diagnostics12123176
- *Large Parathyroid Tumor 8 Years after Thyroid Surgery: A Case Report*
  DOI: 10.1159/000524070
- *Contrast-Enhanced Ultrasound Qualitative and Quantitative Characteristics of Parathyroid Gland Lesions*
  DOI: 10.3390/medicina58010002
- *Performance of Contrast-Enhanced Ultrasound in Thyroid Nodules: Review of Current State and Future Perspectives*
  DOI: 10.3390/cancers13215469

PROJECTS

- **A.I.B.M.** – Interpretable AI system for identifying bone metastases in CT and MRI (lzp-2024/1-0498)
- **CT Perfusion in Stroke Prognosis** – Predictive imaging criteria for ischemic stroke outcomes
- **Imaging Diagnostics** – Biomarker-based renal lesion diagnostics via multimodal imaging (6-ZD-22/23/2022)
- **Prostate Cancer Imaging** – PET/CT with 18F-PSMA-1007 and 68Ga-PSMA-11 (lzp-2019/1-0056)
- **Ultrasound & Histology Correlation** – For primary hyperparathyroidism (lzp-2020/2-0297)
- **SonoSchool** – RSU-led ultrasonography educational initiative
- **EUROSON2023 Congress** – Organizing Committee
- **BCR2024 Congress** – Organizing Committee