

DANIELLA LEVY EREZ, MD, MTR

Pediatric Nephrologist | Physician-Scientist
Schneider Children's Medical Center, Israel | Gray Faculty of Health Sciences, Tel Aviv University
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EDUCATION

2001–2008	MD- Ben Gurion University, Faculty of Health Sciences, Beer-Sheva, Israel
2016–2018	Masters of Translational Research (MTR) -University of Pennsylvania, Philadelphia, USA Thesis: Identifying immune biomarkers of acute kidney injury among pediatric stem cell transplant recipients

LICENSES & CERTIFICATIONS

Israel	License to Practice Medicine Pediatric Board Certification Israeli Board of Pediatric Nephrology
USA	Physician and Surgeon License — Pennsylvania & New York

ACADEMIC & PROFESSIONAL POSITIONS

Period	Institution	Department	Role
2020–present	University of Pennsylvania / CHOP	Pediatric Nephrology	Adjunct Assistant Professor
2022–present	Tel Aviv University	Gray Faculty of Health Sciences	Lecturer
2023–present	Israel Pediatric Nephrology Association		Co-Director, National Pediatric Nephrology Fellows Curriculum
2020–present	Schneider Children's Medical Center	Institute of Pediatric Nephrology	Attending Physician
2018–2020	Children's Hospital of Philadelphia	Division of Pediatric Nephrology	Attending Physician
2015–2018	Children's Hospital of Philadelphia	Division of Pediatric Nephrology	Fellow in Pediatric Nephrology
2014–2015	Schneider Children's Medical Center	Pediatrics	Attending Physician
2009–2014	Schneider Children's Medical Center	Pediatrics	Resident; Chief Resident (2012–2013)

LEADERSHIP & COMMITTEE ROLES

2024–present	Vice Chair, Education Committee — International Pediatric Transplant Association (IPTA)
2026	Chair of Scientific transplantation subcommittee for ESPN 2027 Florence
2024–present	Member, Education Committee — European Society of Pediatric Nephrology (ESPN)
2024	Chair of the Scientific Committee for the 2024 Israeli Pediatric Nephrology Society Meeting
2024–present	Member, ESPN
2023–present	Co-Director, National Israeli Pediatric Nephrology Fellowship Curriculum
2022–present	CERTAIN Registry , Principal Investigator for Schneider Children's Medical Center
2020–present	Lead Investigator, NAPRTCS — Children's Hospital of Philadelphia
2020	Co-Chair, ASPN & American Transplant Congress sessions
2018–2021	Member, ASPN Education Committee & Transplant Interest Group

RESEARCH INTERESTS

As a physician–scientist, my research focuses on the discovery and functional characterization of molecular biomarkers in kidney injury and transplant biology, with a particular emphasis on extracellular vesicle (EV) biology. My translational work investigates how EVs mediate intercellular signaling in kidney transplant rejection, supported by the ISF Physician–Scientist Award. I also study urinary biomarkers of kidney injury following hematopoietic cell transplantation (HCT) and lead large registry-based investigations through NAPRTCS and CERTAIN.

SELECTED GRANTS

2024–2027	EVs as mediators of kidney injury in transplantation — ISF Physician-Scientist Award (PI)
2024–2025	Improving Medical Care for Teenagers — Shofar-Keren Bria (PI, with Saar S, Ziv N)
2023–2024	Pathway analysis of urinary EV proteome for kidney allograft rejection biomarker discovery — Edmond J. Safra Center / Rabin Medical Center Bioinformatics Grant (Co-PI)
2023–2024	Use of urinary biomarkers to predict post-HCT complications — Dotan Research Grant, Tel Aviv University (PI)
2023–2024	Urinary exosome extraction and analysis for early allograft rejection — Tel Aviv University Research Grant (Co-PI)
2022–2023	Urinary exosomal proteome profiling for early detection of kidney rejection- Schneider Young Investigator Grant (PI)

2021–2022	Urinary exosomal proteome profiling for kidney rejection biomarkers — Israeli Nephrology Foundation (PI)
2020–2022	Induction therapy regimens for pediatric kidney transplantation: A NAPRTCS/PHIS Study — NAPRTCS Special Study Award (PI, with Pizzo H, Rodig N)
2020–2021	T-cell profile in nephrotic syndrome: predicting rituximab response — NephCure/NEPTUNE Ancillary Grant (PI)
2020–2023	Returning Scientist Grant — Israeli Absorption Office (PI)
2019–2020	Urinary proteomics in infants developing AKI after cardiac bypass — CHOP Cardiac Center (PI, with Blinder J)
2017–2019	Immune biomarkers in AKI after cardiac bypass and stem cell transplantation — Gerber Foundation (PI)
2016–2018	Immune biomarkers after AKI — NIH T32 (Grantee; PI: Holtzman L)

HONORS & AWARDS

2017	Young Investigator Award- Pediatric American Societies Conference
2017	Best Case Presentation Award — Annual Dialysis Conference
2017	Travel Award- American Society of Nephrology Kidney Week
2017	Scholarship- FOCIS Immunology Course for Clinicians
2014	Israeli Pediatric Boards Honors
2013	Lydia Eviatar Award for Research -Schneider Children's Medical Center
2008	Faculty Award for Excellence in Medical Studies — Ben Gurion University
2005	Dean's Honors for Voluntary Work — Ben Gurion University
1999	Israel Presidential Award/Commendation for Voluntary Work

SELECTED PUBLICATIONS

Original Articles (peer-reviewed)

Levy-Erez D, Issa E, Sabah I, Levin L, Chalifa-Caspi V, Nesher E, Eisner S, Zemel R. *Detecting hidden threats: proteomics changes in urinary extracellular vesicles precede pediatric kidney allograft rejection.* *Pediatric Research.* 2026.

Lazar AA, Zion E, Gurevich E, Borovitz Y, Keidar M, Cleper R, Haskin O, Alfandary H, **Levy-Erez D** et al. Single relapse at ≥ 0.5 mg/kg alternate-day prednisone predicts course of childhood nephrotic syndrome. *Pediatr Nephrol.* 2026.

Prytuła A, Pape L, ... **Levy Erez D** et al. Diagnosis and management of mineral and bone disorders in paediatric kidney transplant recipients: a position statement from ESPN. *Pediatr Nephrol.* 2026.

Strong AE, Zee J, Laskin BL, Howarth K, Blinder J, Chrischilles EA, **Levy-Erez D**, Denburg MR. Urine dipstick blood and acute kidney injury in infants undergoing cardiopulmonary bypass. *Pediatr Nephrol*. 2024;39(12):3591-3596.

Twichell S, Ashoor I, ... **Levy-Erez D** et al. COVID-19 disease among children and young adults enrolled in the NAPRTCS registry. *Pediatr Nephrol*. 2024;39(5):1459-1468.

Levy Erez D, Laskin B, Sullivan KE, Blinder J. Immune urinary biomarkers predict infant cardiac surgery-associated acute kidney injury. *Pediatr Nephrol*. 2024;39(2):589-595.

Levy Erez D, Pizzo H, Rodig N, Richardson T, Somers M. Outcomes based on induction regimens in pediatric kidney transplantation: a NAPRTCS and PHIS study. *Pediatr Nephrol*. 2023;38(10):3455-3464.

Levy Erez D, Derwick H, Furth S, et al. Dipping at home: a feasibility and acceptability study of a novel home urinalysis using a smartphone application. *Pediatr Nephrol*. 2023;38(1):139-143.

Levy Erez D, Meyers MR, Raman S, et al. When dialysis "becomes life": pediatric caregivers' lived experiences. *Front Pediatr*. 2022;10:864134.

Levy-Erez D, Denburg MR, Afolayan S, et al. Acute kidney injury in children after HCT is associated with elevated urine CXCL10 and CXCL9. *Biol Blood Marrow Transplant*. 2020;26(7):1266-1272.

Reviews & Book Chapters

Seeman T, Myette RL, ... **Levy Erez D** et al. Proteinuria after kidney transplantation. *Pediatr Transplant*. 2025;29(8):e70233.

Atlas-Lazar A, **Levy-Erez D**. Approach to acute kidney injury following paediatric kidney transplant. *Curr Opin Pediatr*. 2023;35(2):268-274.

Charnaya O, **Levy-Erez D**, Amaral S, Monos DS. Pediatric kidney transplantation — the promise and limitations of epitope/epitope matching. *Front Pediatr*. 2022;10:893002.

Levy-Erez D, Rheault MN. An update on women and girls with Alport syndrome. *Curr Pediatr Rep*. 2022;10:195-201.

Levy-Erez D, Laskin B, Hingorani S. Acute kidney injury in stem cell transplant recipients. In: *Critical Care Nephrology and Renal Replacement Therapy in Children*. Springer, 2018.

SELECTED INVITED PRESENTATIONS

2025	Chronic hemodialysis prescription, adequacy and complications — 3rd IPNA-ESPN Junior Master Class, Athens (Invited Speaker)
2025	Management of de novo DSA outcome in CERTAIN — 54th CERTAIN Workshop, Heidelberg (Invited Speaker)
2025	Beyond the needle: urinary EVs as liquid biopsies in kidney transplantation — Israeli Society of Extracellular Vesicles Annual Meeting (Invited Speaker)
2024	Hypertension following pediatric kidney transplantation — Israel Society of Hypertension (Invited Speaker)

2024	Renal pathology in kidney disease — 1st Israeli Pediatric Nephrology Meeting, Ein Gedi (Invited Speaker)
2023	Urinary exosome proteome for early detection of kidney rejection — CHOP Pediatric Nephrology Grand Rounds (Invited Speaker)
2023	Urinary EVs proteome for early detection of kidney rejection — SickKids Hospital Grand Rounds, Toronto (Invited Speaker)
2022	Clinical outcomes of induction therapy for pediatric kidney transplantation — IPTA Conference, Prague (Speaker)
2020	Predictors of response to rituximab in nephrotic syndrome — NEPTUNE Investigator Meeting (Invited Speaker)

PROFESSIONAL MEMBERSHIPS

2022–present	European Society of Pediatric Nephrology (ESPN)
2021–present	International Society of Pediatric Transplantation (IPTA)
2021–present	Israeli Transplant Society
2021–present	Israeli Pediatric Nephrology Society
2020–present	Israeli Nephrology and Hypertension Society
2023–present	International Society for Extracellular Vesicles
2009–present	Israeli Clinical Pediatric Association

MENTORSHIP & SUPERVISION

Active supervisor of MD and MSc students at Tel Aviv University, Ariel University, Reichman University, and Schneider Children's Medical Center. Current and past projects span urinary EV biomarkers in allograft rejection, CKD following ECMO and HCT, gastrointestinal complications post-transplant, DSA formation and outcomes in the CERTAIN registry, and TTV viremia as an immunosuppression marker. Students' names withheld for privacy.

EDITORIAL & PEER REVIEW ACTIVITY

Peer reviewer for: Pediatric Nephrology, Pediatric Transplantation, Pediatrics in Review, Frontiers in Pediatrics, Haematologica, Klinische Pädiatrie.