RAWAN DEMACHKIE, MD

Pediatrician | Pediatrics Lecturer, Beirut Arab University
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PROFESSIONAL PROFILE

Pediatrician with over nine years of experience providing comprehensive care for infants, children and adolescents, combined with experience in medical education, clinical research and health leadership. Pediatrics Lecturer and Pediatrics Rotation Coordinator at Beirut Arab University. Founder and Medical Director of Al Salama Al Ahli Primary Health Care Center and President of SAMS Lebanon. Research experience in sickle cell disease clinical trials, patient safety and medical education. Committed to preventive, family-centered care, strong relationships with patients and families, and continuous professional development.

EDUCATION

Pediatrics Specialty Training (Residency) July 2014 – June 2017
Lebanese American University – Beirut, Lebanon

Doctor of Medicine (MD) July 2010 – June 2014
Lebanese American University – Beirut, Lebanon

Bachelor of Science (BS) in Biology September 2007 – July 2010
American University of Beirut – Beirut, Lebanon

ACADEMIC & TEACHING EXPERIENCE

Beirut Arab University (BAU), Faculty of Medicine – Beirut, Lebanon August 2019 – Present

- **Pediatrics Lecturer (MED 1 & MED 2):** Provide comprehensive instruction on core pediatric concepts for medical students.
- **Pediatrics Rotation Coordinator (MED 6):** Oversee the pediatrics clinical rotation for medical students, ensuring a well-rounded learning experience across inpatient, outpatient and academic settings.

Lebanese International University (LIU) – Beirut, Lebanon January 2019 – 2021

- **Assistant Professor:** Taught clinical hematology and clinical chemistry.

Lebanese American University (LAU) – Beirut, Lebanon January 2018 – 2020

- **Pediatrics Lecturer:** Taught pediatric topics to MED 1–MED 4 medical students and residents; designed engaging presentations aligned with the curriculum, integrating visual aids, interactive elements and opportunities for student questions.
- **OSCE Station Development:** Designed realistic pediatric clinical scenarios aligned with the curriculum and learning objectives; role-played patients or healthcare professionals; observed students' communication, clinical skills and management strategies; and provided constructive feedback based on the scoring rubric.
- **Problem-Based Learning (PBL) Facilitator:** Created challenging yet achievable pediatric case studies; guided students to analyze cases, identify knowledge gaps, research, synthesize information and explore management approaches; fostered collaboration, communication and critical thinking.

CLINICAL EXPERIENCE

Pediatrician – Lebanese American University Medical Center (LAUMC)
Saint John's Hospital (2021 – Present) • Rizk Hospital (2025 – Present)

- Provide comprehensive inpatient and outpatient pediatric care, collaborating with a team of specialists to ensure optimal patient outcomes.

Pediatrician – Private Practice, Beirut and Jbeil (Byblos) July 2017 – Present

- Established and manage a private pediatric practice in Beirut and Byblos serving the diverse needs of children in the community.
- Build strong patient rapport by offering personalized care in a welcoming and comfortable environment.

Medical Coordinator – Al Salama Al Ahli Primary Health Care Center, Byblos October 2017 – Present

- Oversee staff and ensure efficient delivery of primary care services to children and families, serving more than 2,000 patients per month.
- Oversee and maintain medical records, ensuring accuracy, confidentiality and regulatory compliance.
- Coordinate health screenings, immunization programs and other community outreach initiatives.

Admitting Pediatrician – Maritime Hospital 2017 – Present

- Serve as admitting physician, performing initial assessments and coordinating care for pediatric patients.

Part-time Pediatrician – Lebanese Army Outpatient Clinics, Sarba & Amchit May 2019 – 2020

- Provided essential medical care to children of military personnel and their dependents.

School Physician

Byblos National High School (2018 – Present) • *Monsif National School, Jbeil (2018 – 2021)*

- Provide comprehensive on-site medical care to students, addressing acute illnesses, injuries and chronic health conditions.
- Conduct routine health screenings and immunizations, promoting preventive healthcare within the school community.
- Collaborate with school administration and families to ensure student well-being and adherence to individualized healthcare plans.
- Work alongside the school nurse and social worker to provide support services and educational resources to students and their families.

RESEARCH EXPERIENCE

Sub-Investigator – Sickle Cell Disease (SCD) Clinical Trials, Nini Hospital, Tripoli 2021 – 2023

- Collaborated with the principal investigator and research team to design, implement and monitor clinical trials of SCD treatments.
- Worked directly with SCD patients: informed consent procedures, clinical data collection, patient safety and adherence to study protocols.
- Analyzed and interpreted clinical trial data and presented research findings at conferences.

Trials

- **Phase 2, double-blind, randomized, placebo-controlled, ascending dose and maintenance dose efficacy and safety study of multiple doses in adult subjects with SCD.** Investigated the efficacy and safety of a new therapeutic approach for managing SCD in adults.
- **Phase 2a, open-label, single and multiple dose study to evaluate pharmacokinetics, safety, tolerability and treatment effect of the study molecule in pediatrics.** Assessed the pharmacokinetic profile and potential benefits of a novel SCD therapy in pediatric patients.

Research in Progress

- Atypical Manifestations of Pediatric Cutaneous Lupus Erythematosus (2024)
- Depression, Anxiety and Stress Levels in Students Transitioning from High School to University (2024)
- Medical Students' Awareness Towards Medical Errors and Patient Safety (2024)

PUBLICATIONS

1. Koleilat N, Saadieh T, El Arwadi T, Abbas A, **Demachkie R**, El Masri N, Al Jishi A, Mawlawi R, El Masri R, Moety W, Choukeir H, Chamsedine A. Lebanese medical students' attitudes towards patient safety and medical error disclosure: a cross-sectional study. *Journal of International Medical Research*. 2024;52.
2. Inati A, Sabbagh M, Al Alam C, Al Kheir A, Massouh Z, **Demachkie R**, Ojaimy C, Dani N, Siddiqui A, Adhikary R, Lynch B, Srivastava A. A real-world experience with healthcare resource utilization patterns and related costs in patients with sickle cell disease in North Lebanon. 2022.
3. Hamdar H, Abou Khater D, **Demachkie R**. Pneumoscrotal emphysema: a case report. *Electronic Journal of Medical and Dental Studies*. 2022.

Earlier Research Projects (Mentored)

- **Cervical Abscess Caused by an Unusual Foreign Body (2017) –** Mentors: Dr. Alain Sayyad and Dr. Ramy Saade.
- **Obesity and Its Correlates among School-Aged Children (2012) –** Mentor: Dr. Mona Haidar, Lebanese American University. Studied the rise in childhood obesity and its effects on children, including bullying and school performance.
- **G6PD Deficiency and Hemoglobinopathies (2011) –** Mentor: Dr. Adlette Inati, Lebanese American University.
- **Whey Recycling (2009) –** Mentor: Dr. Najat Saliba, American University of Beirut. Recycled whey, a pollutant, into a neutral, low-lactose, vitamin-rich product usable as a fertilizer.

SELECTED ORAL PRESENTATIONS

- Hypocalcemia and Vitamin D Deficiency – LAU Medical Center–Rizk Hospital (2015)
- Pediatric Emergencies in Anesthesia – Lebanese American University, School of Medicine (2013)
- Rare Endocrine Disorders and Ophthalmology – Lebanese American University, School of Medicine (2013)
- Breast Malignancies – Lebanese American University, School of Medicine (2013)
- Aortic Stenosis and TAVI – Lebanese American University, School of Medicine (2013)
- Prostate Cancer – Lebanese American University, School of Medicine (2012)

LEADERSHIP, HUMANITARIAN & GLOBAL HEALTH

President – SAMS Lebanon (Syrian American Medical Society) June 2025 – Present

Board Member – SAMS (Syrian American Medical Society) June 2023 – May 2025

- Provided medical expertise and strategic direction in board discussions on the organization's work in promoting access to healthcare.
- Advocated for policy changes and resource allocation to improve healthcare outcomes in underserved communities.
- Contributed to fundraising initiatives and donor engagement strategies.

Founder & Medical Director – Al Salama Al Ahli Primary Health Care Center, Byblos 2020 – Present

- Established and lead a comprehensive primary healthcare center serving over 28,000 patients annually.
- Oversee the development and implementation of medical and educational services, including primary care consultations, preventive health screenings and chronic disease management.
- Built collaborations with key stakeholders:
  - **Ministry of Public Health (MOPH):** aligned services with national healthcare initiatives.
  - **International Organization for Migration (IOM):** provided healthcare services to migrant populations.
  - **Lebanese American University (LAU):** institutional partnership for educational programs and capacity building for healthcare professionals.
  - **Local and international NGOs and institutions:** addressed community health needs comprehensively.

Consultant Advisor – Médecins du Monde 2020 – 2023

- Offered strategic medical advice and technical expertise to support the organization's global health initiatives.
- Conducted field assessments, evaluated program effectiveness and identified areas for improvement.
- Developed training materials and workshops to build the capacity of healthcare workers in resource-limited settings.

Medical Advisor – International Medical Corps 2018 – 2019

- Provided medical guidance and support to international healthcare programs, ensuring high-quality care for underserved populations.
- Assessed community health needs, conducted medical evaluations and developed evidence-based recommendations for program improvement.
- Collaborated with local healthcare professionals and community leaders to strengthen healthcare systems and build capacity.

Board Member – Al Nahda Foundation, Byblos (member since 2010) 2017 – Present

- Guide the foundation's strategic direction in providing comprehensive healthcare services to orphans.
- Develop and implement fundraising initiatives with fellow board members to secure resources for the foundation's programs.
- Advocate for orphans' well-being in decisions on healthcare access, nutrition and overall care standards, and take part in awareness events.

INTERNATIONAL ELECTIVES

- Observership in Hematology and Oncology – Case Western Reserve University Hospital, Cleveland, Ohio (2013)
- Elective – Children's Hospital, University of Texas Southwestern, Dallas, Texas (2016 and 2017)

PROFESSIONAL DEVELOPMENT

- **Research Certificate Program** – Lebanese American University (2022 – 2023)
- **Master Class: Essentials in Clinical Simulation** – Lebanese American University (2023)
- **Health Life Coach** – Lebanese American University (2022)
- **Postgraduate Program in Pediatric Nutrition** – in association with Boston University School of Medicine (2021)

CERTIFICATIONS & LICENSES

- **Neonatal Resuscitation Program (NRP)** – certified November 2022
- **Pediatric Advanced Life Support (PALS)** – certified October 2020
- **Advanced Cardiac Life Support (ACLS)** – certified March 2017
- **Basic Life Support (BLS)** – certified March 2015

AWARDS & RECOGNITION

- **Dean's Distinction** – American University of Beirut (2008)
- **High Distinction, Lebanese Baccalaureate – Life Sciences** (2007)

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

- **American Academy of Pediatrics** – Member (2022 – Present)
- **Medical Student Association, Lebanese American University** (2010 – 2017)
- **George Nassim Khoryaty Foundation** – Member (2010 – 2014): health and passenger-safety awareness campaigns
- **American University of Beirut** – Biology Society and Debate Club (2007 – 2010)

SKILLS

- **Clinical:** comprehensive physical examination and diagnosis; management of acute and chronic pediatric illness; preventive healthcare and counseling (immunizations, healthy lifestyle, disease prevention); medication management and treatment planning; collaboration with multidisciplinary teams.
- **Academic & Research:** curriculum-aligned lecturing, OSCE design and assessment, PBL facilitation, clinical simulation, clinical trial conduct, basic statistical analysis, AI-assisted literature search.
- **Technical:** Electronic Medical Records (10+ years); Microsoft Word, Excel and PowerPoint (10+ years).
- **Leadership:** team leadership, project management, problem solving, stakeholder and partner coordination.

ONLINE PRESENCE

- **Instagram:** https://www.instagram.com/drrawan.demachkie
- **Facebook:** https://www.facebook.com/rawandemachkielakiss
- **YouTube:** Video 1 | Video 2 | Video 3