

MOHAMMAD HUSSEIN, MD, FRCPC (Canada)

Pediatric Gastroenterology & Hepatology

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Online CV & Portfolio: https://www.pedsgimind.ca/Dr.Hussein_CV_Portfolio/



CURRENT PRACTICE LOCATION

Avicenna Medical Inc – Al Farabi Gastroenterology & Endoscopy Center (Diyala Branch)

Pediatric Gastroenterologist Consultant

Diyala Health Ministry

Diyala, Iraq

Tel: 772-173-8755

Email: Info@avicennamedical.org

Website: <https://avicennamedical.org/doctors.html>

PREVIOUS PRACTICE LOCATION

Maternity & Children Hospital (MCH)

- Pediatric Gastroenterology Consultant
- Al Qassim Health Cluster, Ministry of Health
- Kingdom of Saudi Arabia
- Tel: 054-863-9217
- Email: Mohuhussein@Moh.Gov.Sa

LANGUAGES

- Arabic – Fluent
- English – Fluent
- Turkish – Intermediate

PROFESSIONAL SUMMARY & CAREER NARRATIVE

I am a board-certified pediatrician and pediatric gastroenterologist by the Royal College of Physicians and Surgeons of Canada (RCPSC), with a background in inflammatory bowel disease (IBD), eosinophilic gastrointestinal disorders, pediatric motility and functional testing, and complex nutrition, including enteral and parenteral support. Over the course of my career, I have managed a broad spectrum of gastrointestinal and hepatobiliary disorders in infants, children, and adolescents, while maintaining active involvement in general and emergency pediatrics in tertiary, regional, and military healthcare settings.

My subspecialty practice has been anchored in comprehensive, evidence-based pediatric gastroenterology. This includes advanced diagnostic and interventional endoscopy (upper and lower), PEG and PEC insertion, management of acute and chronic gastrointestinal bleeding, complex constipation and fecal incontinence, celiac disease, very early onset inflammatory bowel disease, intestinal lymphangiectasia, and post-liver transplant and pancreatitis care. I also have experience with capsule endoscopy, pH-impedance monitoring, hydrogen/methane breath testing, and anorectal manometry, allowing me to integrate motility and functional testing into day-to-day clinical decision-making.

A major focus of my work has been the interface between gastrointestinal disease, nutrition, and neurodevelopment. I have developed particular interest and experience in feeding problems, selective and restrictive eating, obesity and metabolic risk, and gastrointestinal manifestations of Autism Spectrum Disorder and other neurodevelopmental conditions. I aim to deliver care that is not only technically and diagnostically sound, but also family-centered and trauma-informed, recognizing the impact of chronic gastrointestinal symptoms on growth, development, schooling, and quality of life.

Teaching and systems-level work are important to my professional identity. I have been actively involved in designing and delivering structured education for pediatric residents and fellows, supervising case forums and journal clubs, leading board-oriented teaching sessions, and developing innovative formats such as podcast-based case learning. I have also led and supervised quality-improvement and research projects.

I bring a strong and well-rounded background in pediatrics and pediatric gastroenterology, with board certification in Pediatrics by the Royal College of Physicians and Surgeons of Canada and LMCC (Licentiate of the Medical Council of Canada) certification. My training and practice experiences across Canada, the Gulf region, and Iraq, together with earlier work in military and academic environments in Texas, have shaped a practice style that is collaborative, evidence-based, and highly responsive to the needs of children with complex gastrointestinal and nutritional disorders and their families.

CLINICAL & PROCEDURAL SKILLS

Liver Biopsy

- Certified in performing percutaneous liver biopsy
- Ultrasound-guided technique optimizing needle placement in real time
- Experience with the Menghini needle (suction technique) and Tru-Cut needle (spring-loaded automated core sampling)

Video Capsule Endoscopy

- Certified by Yale New Haven Children's Hospital, Connecticut, USA (June 2018)
 - Capable of performing the procedure, interpreting results, and treating conditions accordingly
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Hydrogen and Methane Breath Testing

- Skilled in conducting hydrogen and methane breath tests independently
 - Proficient in interpreting results and managing conditions based on findings
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pH and Dual pH–Impedance Studies

- Competent in performing these studies autonomously
 - Skilled in interpreting results, reporting findings, and implementing appropriate treatment plans
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Anorectal Manometry

- Proficient in conducting the procedure independently
 - Experienced in interpreting results, providing detailed reports, and managing related conditions effectively
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Interventional Upper Endoscopy (EGD) Procedures

- Esophageal dilation: treatment of esophageal strictures due to various etiologies, including esophageal atresia, achalasia, and gastroesophageal reflux disease (GERD)–related strictures
 - Foreign body removal: removal of ingested foreign bodies lodged in the esophagus, stomach, or duodenum
 - Percutaneous endoscopic gastrostomy (PEG) tube placement: placement of feeding tubes directly into the stomach for long-term enteral nutrition
 - Implemented an endoscopic PEG program at Maternity and Children Hospital in Buraydah, Saudi Arabia, transitioning away from open surgical gastrostomy to a less invasive approach that reduces complications and is completed in approximately 15 minutes
 - Management of esophageal varices: band ligation or sclerotherapy for the treatment of esophageal varices, often related to liver disease
 - Treatment of bleeding lesions: hemostasis of bleeding ulcers and other lesions using injection, clipping, or cautery
 - Biopsy: tissue sampling from the esophagus, stomach, or duodenum for diagnosing conditions such as celiac disease, eosinophilic esophagitis, or *Helicobacter pylori*
 - Polypectomy: removal of polyps in the upper gastrointestinal tract
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Interventional Colonoscopy Procedures

- Polypectomy: removal of polyps in the colon, including in conditions such as familial adenomatous polyposis and juvenile polyposis syndrome

- Biopsy: tissue sampling from the colon or terminal ileum for diagnosing inflammatory bowel disease (IBD), celiac disease, infections, and other pathology
 - Stricture dilation: dilation of colonic strictures, including those secondary to Crohn's disease
 - Management of lower gastrointestinal bleeding: hemostasis for bleeding lesions in the colon using clipping, cautery, or injection therapy
 - Foreign body removal: retrieval of foreign objects from the colon or rectum
 - Percutaneous endoscopic cecostomy (PEC): placement of a cecostomy tube for the management of severe constipation and fecal incontinence, enabling antegrade colonic enemas to be administered directly into the colon
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EDUCATION

- **BSc (Hons)** – Diyala, Iraq
Sep 1991 – Jun 1994
 - **MBChB – Bachelor of Medicine and Bachelor of Surgery**
Baghdad College of Medicine, University of Baghdad, Baghdad, Iraq
Sep 1995 – Jun 2002
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CERTIFICATIONS

- Fellow of the Royal College of Physicians and Surgeons of Canada (FRCPC), Pediatrics – Jun 2023
 - Fellow of the Royal College of Physicians and Surgeons of Canada (FRCPC), Pediatric Gastroenterology – Nov 2025
 - Fellow, American Academy of Pediatrics (FAAP) – Oct 2016
 - Member, Royal College of Paediatrics and Child Health – MRCPCH-UK Final Certification Exam Candidate
 - Video Capsule Endoscopy Certification – Yale New Haven Children's Hospital, Connecticut, USA – Jun 2018
 - Licentiate of the Medical Council of Canada (LMCC)
 - MINC: CAMD-0078-9005
 - EICS number: E283499
 - Medical Council of Canada Qualifying Examination Part II – Hamilton, ON – May 2009
 - Medical Council of Canada Qualifying Examination Part I – Hamilton, ON – Nov 2008
 - Medical Council of Canada Evaluating Examination – Toronto, ON – Jan 2008
 - IMG Program Assessment, CEHPEA-CE1 (currently NAC OSCE) – Toronto, ON – Aug 2009
 - Diploma, School of Aerospace Medicine – U.S. Air Force School of Aerospace Medicine, Brooks Air Force Base, San Antonio, Texas, USA – Jun 2006 – Oct 2006
 - Diploma, English Language – Defense Language Institute Foreign Language Center, Lackland Air Force Base, San Antonio, Texas, USA – Jun 2006 – Oct 2006
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Other Certifications

- Liver Biopsy Certification (2024): Certified in performing percutaneous liver biopsy using ultrasound guidance, Menghini, and Tru-Cut needles
- Neonatal Resuscitation Program (NRP), University of Western Ontario, London, ON – 2010–2013
- Pediatric Advanced Life Support (PALS), University of Western Ontario, London, ON – 2010–2013
- Advanced Pediatric Life Support (APLS), University of Western Ontario, London, ON – 2010–2013
- Advanced Cardiac Life Support (ACLS), CEHPEA, Toronto, ON – May 2010
- Orientation to the Canadian Health Care System, Culture, and Context for International Pharmacists – Leslie Dan Faculty of Pharmacy, Toronto, ON – Jan 2009 – Mar 2009
- Crucial Conversations: Teamwork and Communication Training Program – Schulich School of Medicine & Dentistry, University of Western Ontario – Mar 2011
- Research Certificate: Clinical Trial Methodology in Practice – Michael G. DeGroote School of Medicine, McMaster University, Hamilton, ON – Apr 2009 – Dec 2009
- Research Certificate: Fundamentals of Health Research & Evaluation – Michael G. DeGroote School of Medicine, McMaster University, Hamilton, ON – Apr 2009 – Dec 2009
- Research Certificate: Methodology of Clinical Trial Research Coordination – Michael G. DeGroote School of Medicine, McMaster University, Hamilton, ON – Apr 2009 – Dec 2009

PROFESSIONAL EXPERIENCE

Al Farabi Gastroenterology & Endoscopy Center

Pediatric Gastroenterologist Consultant

Diyala Health Ministry, Diyala, Iraq

Apr 2025 – Present

Maternity & Children Hospital, Buraydah – Al Qassim Health Cluster

Pediatric Gastroenterology Consultant

Ministry of Health, Kingdom of Saudi Arabia (KSA)

Feb 2024 – Feb 2025

Ibn Sina Pediatric Gastroenterology Clinic

Pediatric Gastroenterology Consultant

Al Maghrib Street, Al Adhamyia, Baghdad, Iraq

Apr 2022 – Jan 2024

Seashell Medical Centre

Pediatrician & Pediatric Gastroenterology, Hepatology, and Clinical Nutrition

330 Bronte Street South, Milton, Ontario, Canada
Aug 2016 – Mar 2022

Oakville Pediatric Gastroenterology Clinic

Pediatrician and Pediatric Gastroenterologist
455 Trafalgar Road, Oakville, Ontario, Canada
Mar 2016 – Aug 2016

Children's Hospital, McMaster University

Gastroenterology, Hepatology, and Nutrition Fellow
1280 Main Street West, Hamilton, ON L8S 4K1, Canada
Jul 2013 – Dec 2015

Children's Hospital, Western University

Pediatric Resident
London Health Sciences Centre, London, Ontario, Canada
Jul 2010 – Jun 2013

Canadian Chiropractic Examining Board (CCEB)

Simulated Patient / Simulated Health Care Professional
1209 59 Avenue SE, Calgary, AB T2H 2M3, Canada
Nov 2008 – May 2010

Pharmacy Examining Board of Canada (PEBC)

Simulated Patient / Simulated Health Care Professional
717 Church Street, Toronto, ON M4W 2M4, Canada
Nov 2009 – May 2010

Aerospace & Naval Medicine Department, Iraqi Surgeon General

Deputy Chief
Green International Zone, Baghdad, Iraq
Mar 2006 – Oct 2006

School of Aerospace Medicine, Brooks Air Force Base

Iraqi Air Force Liaison

San Antonio, Texas, USA

Jun 2006 – Oct 2006

New Al-Muthana Aerospace Clinic

Aerospace and Naval Medicine Department, Iraqi Surgeon General

Commander

Baghdad International Airport, Iraqi Air Force Camp, Iraq

Mar 2006 – Jun 2006

Ministry of Health, Office of Special Operation

Senior Registrar Medical Doctor

Baghdad, Iraq

Jan 2005 – Feb 2005

Rusafa Medical Directorate, Ministry of Health

Rotating Medical Intern / Chief Resident

Baghdad, Iraq

Oct 2002 – Feb 2005

PROFESSIONAL DEVELOPMENT & ACADEMIC ACTIVITIES

2002–2005 – Early Clinical & Academic Activities (Iraq)

Rusafa Health Centre, Ministry of Health, Baghdad, Iraq

- Type 1 Diabetes Mellitus – clinical review, Ibn Baladi Hospital
 - Neonatal Sepsis – local incidence rate study, Ibn Baladi Hospital
 - Epstein–Barr Virus (EBV) – case presentation and literature review, Al-Jwader Hospital
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2005–2006 – Aerospace Medicine & Military-Related Academic Work (USA)

Defense Language Institute / School of Aerospace Medicine, San Antonio, Texas

- Alcohol and the Military Aviator
 - New Iraqi Aerospace Medicine – From Old to New Formulation and Transition: Successes and Limitations
 - Medications and the Military Aviator
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2009 – Research & Academic Skills (McMaster University)

Michael G. DeGroote School of Medicine, McMaster University, Hamilton, ON

- Ultrasound Use in Simple Sacral Dimple – literature search and study design (HRM-721 proposed research project)
 - Conflict of Interest in Clinical Trials – Tri-Council Policy Statement (TCPS, Chapter 7)
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2010–2013 – Pediatric Academic Rounds (Western University)

2010 – London Health Sciences Centre, University of Western Ontario

- Syncope in Children – May 2010
- Hematuria in Children – case presentation and literature review, Aug 2010
- Increased Energy Intake for Preterm Infants with or Developing Bronchopulmonary Dysplasia / Chronic Lung Disease (Lai NM, 2011) – Sep 2010
- Neonatal Intraventricular Hemorrhage – Sep 2010
- Resuscitation of Newborn Infants with 21% or 100% Oxygen – review and meta-analysis (Ola Didrik Saugstad, 2008) – Oct 2010

2011 – London Health Sciences Centre, University of Western Ontario

- Transfusion of Leukocyte-Depleted Red Blood Cells Is Not a Risk Factor for New Onset or Progressive Multiple Organ Dysfunction in Critically Ill Children (Judith van der Wal, 2011) – Oct 2011

2012 – London Health Sciences Centre, University of Western Ontario

- Guideline for the Evaluation of Cholestatic Jaundice in Infants – Recommendations of NASPGHAN – Feb 2012

2013 – Hamilton Health Sciences, McMaster University

- Segmental Intestinal Lymphangiectasia – rare case presentation with literature review – Aug 2013
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AWARDS & ACHIEVEMENTS

- **2003–2004:** Distinguished Physician Award, Ibn Baladi Hospital, Baghdad, Iraq
- **2003–2004:** Recipient of Best Doctor of the Year, Ibn Baladi Hospital, Baghdad, Iraq
- Played a managerial role in keeping the hospital operational during the 2003 war with only three physicians, few healthcare professionals, and scarce resources

- **2013:** Best Teacher Award, University of Western Ontario, London, ON, Canada
 - Established the curriculum for *Residents as Teachers of Publics (RAT)*
 - **2011–2013:** Educator / Teacher, Medical Students Teaching Series, Clinical Teaching Units, University of Western Ontario, London, ON
 - **2012:** Pre-Clerkship (Year II) Clinical Skills Mentor – Clinical Skills Building, University of Western Ontario, Jul 2012
 - **2008–2010:** Established the curriculum for an International Medical Graduates bridging program, Partner Performance and Associate Organization, Hamilton, ON
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CONFERENCES (MAJOR MEETINGS)

- **Jan 2015**
 - Advanced Endoscopy Course, Hamilton General Hospital
 - Seventh Canadian GI Fellows Program in IBD, Grand Hotel and Suites, Toronto, ON
 - **Feb 27 – Mar 2, 2015**
 - Canadian Digestive Diseases Week (CDDW) and the Annual CASL Winter Meeting – Fairmont Banff Springs, Banff, Alberta
 - **Feb 2014**
 - Canadian Digestive Diseases Week and the Annual CASL Winter Meeting – Toronto, ON
 - **Jan – Dec 2014** – McMaster Children’s Hospital, McMaster University, Hamilton, ON
 - Pediatric Gastroenterology Pathology Rounds
 - Pediatric Gastroenterology Rounds
 - Pediatric Gastroenterology Radiology Rounds
 - **Oct 2014**
 - High-Resolution Manometry – Esophageal Function, St. Joseph’s Healthcare (SJH), Hamilton, ON
 - Very Early Onset Inflammatory Bowel Disease – Hospital for Sick Children, Toronto, ON
 - Steinberg’s 2014 Board Review in Gastroenterology, Arlington, VA, USA
 - Translational Approaches to Inflammatory Liver Injury – University of Calgary Liver Unit, Calgary, Alberta
 - **Aug 2014**
 - Mount Sinai Intensive Review in Gastroenterology & Hepatology, Icahn School of Medicine at Mount Sinai, New York, NY, USA
 - **Aug 2014**
 - 20th Annual Pediatric Board Review, Cleveland Clinic Educational Foundation, Cleveland, Ohio, USA
 - **Jul 31 – Aug 2013**
 - Boston MedStudy Intensive Pediatric Board Review, Boston, Texas, USA
 - **Feb 2013, 2014, 2015, 2016, 2018, 2022**
 - McMaster Intensive Pediatric Board Review, Hamilton, ON
 - **NASPGHAN Annual Meeting & Postgraduate Course**
 - 2013, 2014, 2015, 2017, 2022, 2023
 - **Canadian Pediatric Society Conference**
 - 2012, 2013, 2015, 2017, 2023
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AFFILIATIONS & PROFESSIONAL MEMBERSHIPS

- Canadian Medical Association – Member, 2013–present
 - Canadian Association of Gastroenterology – Member, 2013–present
 - North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN) – Member, 2013–present
 - Iraqi Medical Association of North America (online group) – Founder, 2012–present
 - Residents Wellbeing Committee – Member, Pediatric Residency Program, University of Western Ontario, London – 2011–2013
 - Residents as Teachers of Public Committee – Core Leader, Pediatric Residency Program, University of Western Ontario – 2011–2013
 - Ontario Medical Association – Member, 2010–present
 - Canadian Pediatric Society – Member, 2010–present
 - American Academy of Pediatrics – Member, 2010–present
 - Canadian Medical Protective Association – Member, 2010–present
 - Canadian Iraqi Medical Society – Member, 2010–present
 - Settlement and Integration Services Organization – Member, Hamilton, ON – 2008–2012
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AEROSPACE & HOSPITAL-BASED LEADERSHIP AND COMMITTEE ROLES

Aerospace and Naval Medicine Division, Iraqi Surgeon General, Ministry of Defense
Baghdad, Green International Zone, Iraq

- Division Deputy Chief – 2005–2006
- Committee Chief: Pilots and Aircrews Selection – 2005–2006
- Committee Chief: Food Safety Inspection – 2005–2006
- Committee Chief: Public Health Committee – 2005–2006

Ibn Al-Balady Hospital, Baghdad, Iraq

- Salary Distribution Committee – Member, 2003–2005
 - Food Safety Inspection Committee – Member, 2003–2005
 - Iraqi Medical Union of Excellent Employees – Member, 2003–2005
 - Chief Resident – 2003–2005
 - Pediatrics Hospital Medical Director – 2003–2004
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OTHER ACADEMIC / PROFESSIONAL ROLES

- Iraqi Medical Association – Member, 2003–present
- Pediatrics CaRMS Interview Committee – Member, University of Western Ontario, London, ON – 2011–2012
- Delegate, American Academy of Pediatrics, Pediatrics Program, University of Western Ontario – 2011–2012

LIFETIME PUBLICATIONS & ABSTRACT PRESENTATIONS

- Alrashidi, S. H., Al-Harbi, F., AlObailan, Y. I., Alkhalifah, Y. S., Alghasham, Y. A., **Hussein, M.**, & Alabood, M. A. (2025). *Tracheoesophageal fistula with esophageal atresia in the Qassim region: Epidemiology, clinical characteristics, and outcomes – a retrospective study*. **Georgian Medical News**, (10), 176–182.
- Regional analysis of magnetic ingestion in children: Insights from Al-Qassim, Saudi Arabia. Retrospective study, 2024–ongoing.
- Ulcerative colitis and Budd–Chiari syndrome association in a child. Manuscript submitted to the *Saudi Journal of Gastroenterology*, 2024.
- Pediatric segmental intestinal lymphangiectasia. Case report and literature review. *Journal of Pediatric Gastroenterology and Nutrition*, 2018.
- Pediatric duodenal Dieulafoy’s lesion: A serious but rare cause of upper gastrointestinal bleeding. *Journal of Clinical Gastroenterology and Hepatology*, November 9, 2017.
- Tuberculous abdominal cocoon in a twelve-year-old girl. Case report and literature review. *The Lancet Infectious Diseases*, 2015.
- Is it really leukemia? Case report and literature review. Presented at the Canadian Pediatric Society (CPS) meeting, 2013.
- Congenital myotonic dystrophy and chylothorax – a common disease with a rarely reported association. Presented at the Canadian Pediatric Society (CPS) meeting, 2012.
- Worsening headaches after a concussion: Expected or unusual? Case report of newly diagnosed hydrocephalus post-concussion with literature review. Presented at the Canadian Pediatric Society (CPS) meeting, 2011.

DETAILED PRACTICE DESCRIPTION – MATERNITY & CHILDREN HOSPITAL (MCH), AL QASSIM HEALTH CLUSTER, KSA

March 2022 – Present

In early 2024, I joined Maternity and Children Hospital (MCH), part of the Al Qassim Health Cluster, as a Pediatric Gastroenterology Consultant while also covering general pediatrics, emergency pediatrics, and NICU several days a week. Since then, I have managed a comprehensive clinical and academic schedule.

Clinical Activities

Outpatient Clinics

1. **Every Monday**
 - Morning clinic: 7:00 am – 12:00 pm (in-person)
 - Night clinic: 5:00 pm – 9:00 pm (in-person)
2. **Every Sunday and Thursday**
 - Virtual clinics: 8:00 am – 12:00 pm

Endoscopy

- **Every Tuesday**
 - Endoscopy list: 7:00 am – 12:00 pm

Daycare Clinic for Infusion Therapy

1. **Every Monday and Wednesday:** 7:00 am – 2:00 pm (in-person)
2. Administering biologic IBD medications (infliximab, adalimumab, vedolizumab, etc.) and elemental iron infusions as part of ongoing patient care

Teaching Activities

(1) Noon Case-Based Teaching Sessions

Regularly conducted sessions on:

- Approach to chronic diarrhea and malabsorption
- Case-based discussions (e.g., “Puking Child” – cyclic vomiting syndrome)
- Approach to the “yellow baby” (neonatal cholestasis)

(2) Half-Day Activities

- GI bleeding lecture – Apr 17, 2024
- GI MCQ session – May 8, 2024

(3) Qassim Peds Podcast Group

- Established, scripted, supervised, and created the “Qassim Peds Podcast Group” for residents, registrars, consultants, interns, and medical students
- Provides structured case-based learning and discussion

Sessions Conducted (Examples)

- Oct 19, 2024 – Approach to the Yellow Baby
- Oct 22, 2024 – Approach to Chronic Diarrhea and Malabsorption Syndromes
- Oct 27, 2024 – Approach to the Puking Child – cyclic vomiting syndrome

Case Forums Supervision – Saudi Pediatric Board Residents

Supervision of formal case forums including:

1. Magnet ingestion and button battery in the esophagus
2. Tracheoesophageal fistula secondary to button battery ingestion
3. Lower gastrointestinal bleeding and juvenile polyposis syndromes
4. Primary intestinal lymphangiectasia and cardiac hepatopathy
5. Post-liver transplant follow-up and acute pancreatitis care

6. Cholestasis and indirect hyperbilirubinemia in infancy
 7. PEG tube pre-procedure, intra-procedural, and post-procedure care
 8. Sexual abuse presenting as functional abdominal pain and constipation
 9. Refractory constipation in children
 10. Celiac disease – NASPGHAN / ESPGHAN diagnostic guidelines
 11. Post-Kasai care and ERCP for choledocholithiasis
 12. Peptic ulcer disease – full diagnostic and management approach
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Research Activities (MCH, Qassim)

Supervising three ongoing retrospective studies:

1. Use of unnecessary laboratory and imaging studies at MCH (2019–2024) – “Choosing Wisely” initiative
 2. Incidence and prevalence of iatrogenic hyponatremia in admitted children
 3. Regional analysis of magnetic ingestion in children – Al-Qassim, Saudi Arabia
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COMMUNITY INVOLVEMENT

- Participation in *Rukin Hayakum*, a public educational initiative at MCH
 - Occasional involvement in local and national teaching forums
 - Member, Qassim local chapter for Saudi Society of Pediatric Gastroenterology, Hepatology and Nutrition (SASPGHAN), Feb 2024 – Present
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REFERENCES

- Detailed list of references and/or reference letters will be provided upon request.
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