

Elsayed Mohammed Abdelkreem Abdalla (MD, PhD)

Department of Pediatrics, Faculty of Medicine, Sohag University,
Nasser city, Sohag 82524, Egypt.
(002) 01114232126
d.elsayedmohammed@med.sohag.edu.eg
d.elsayedmohammed@yahoo.com

Lecturer of Pediatrics at the Faculty of Medicine, Sohag University with a solid medical, research, and teaching experience. Main domains are Pediatric emergencies, critical care, and inherited metabolic diseases. I am interested in developing a career which combines teaching and research, while maintaining my interest in clinical work.

EDUCATION

- 2017-Present ***Diploma of Health Profession Education***
Faculty of Medicine, Suez-Canal University (Egypt)
- 2013- 2018 ***Doctoral Degree of Pediatrics***
Faculty of Medicine, Sohag University (Egypt)
Thesis title: Clinical and Molecular Characterization of Beta-ketothiolase Deficiency. (*Abstract shown in Appendix 1*)
Supervisors: Prof. Toshiyuki Fukao, and Prof. Mohamed Abd El Aal
- 2009-2013 ***Master of Pediatrics***
Faculty of Medicine, Sohag University
Thesis title: Clinical Features of Cerebral Cortex Malformation in Children: Observational Retrospective Study in Sohag University Hospital. (*Abstract shown in Appendix 2*)
Supervisors: Prof. Elzahraa Elsayed, and Prof. Abdelrahim Sadek
- 2000-2007 ***Bachelor of Medicine & surgery***
Faculty of Medicine, Sohag University

EMPLOYMENT

- | | | |
|-------------------|---|---------------------------------------|
| Apr 2018-Present | <i>Lecturer</i> (Pediatrics) | Faculty of Medicine, Sohag University |
| Aug 2013-Apr 2018 | <i>Assistant Lecturer</i> (Pediatrics) | Faculty of Medicine, Sohag University |
| Apr 2012-Aug 2013 | <i>Demonstrator</i> (Pediatrics) | Faculty of Medicine, Sohag University |
| Mar 2009-Apr 2012 | <i>Resident Physician</i> (Pediatrics) | Sohag University Hospital |
| Mar 2008-Feb 2009 | House officer | Sohag University Hospital |

RESEARCH EXPERIENCE

- Jul 2015-Jul 2017 ***Department of Pediatrics, Gifu University (Japan)***
- Working as a member of Professor Toshiyuki Fukao research group in the field of clinical and molecular characterization of inherited metabolic diseases, particularly disorders of ketone body metabolism.
 - Acquired experience includes diagnosis and management of inherited metabolic disorders, formulating research idea and protocol, techniques of molecular biology (mutational analysis, cloning, mutagenesis, cell culture, transfection, transient expression analysis, enzyme assay using

spectrophotometry, and immunoblotting), data interpretation, and preparing a scientific paper.

- Our research evolved into several conference presentations and publications in peer reviewed international journals (*shown in Appendix 3*).

Mar 2009-Aug 2012

Department of Pediatrics, Sohag University

- Working on my master thesis entitled Clinical Features of Cerebral Cortex Malformation in Children: Observational Retrospective Study in Sohag University Hospital
- My master study included several courses on research methodology, epidemiology and biomedical statistics.
- Acquired experience includes diagnosis and management of pediatric neurological diseases, basics of clinical research and biomedical statistics, and preparing my master thesis. We published a scientific paper from our research in a regional journal.

SCHOLARSHIPS

Jul 2015-Jul 2017

Research scholarship from the Egyptian Government to perform my doctoral thesis at the Department of pediatrics, Gifu University (Japan).

TEACHING/ADMINISTRATIVE EXPERIENCE

Apr 2018-Present

Lecturer (Pediatrics)

Sohag University

- Principal coordinator of pediatric curriculum development team.
- Teaching theoretical lectures, clinical rounds, and case scenarios of Pediatrics for undergraduate medical students.
- Full and active sharing in evaluation process (written/clinical) of undergraduate medical students.
- Formal mentoring/supervision of dissertation work/theses of postgraduate students.
- Training/supervising clinical works of resident physicians and postgraduate students.
- Several seminar presentations on relevant pediatric topics.
- Sharing in organization of several workshops (e.g., guidelines of PICU) and conferences (e.g., annual Sohag Pediatrics Conference).
- Providing lectures and hand-on training in the skills laboratory for under- and postgraduate students.

Apr 2012-Apr 2018

Demonstrator/Assistant Lecturer (Pediatrics)

Sohag University

- Teaching/demonstrating clinical skills of pediatrics for undergraduate medical students.
- Training/supervising clinical works of resident physicians and postgraduate students.
- Facilitating teaching rounds/lectures headed by professors.
- Member of pediatric curriculum development team.
- Sharing in evaluation process (written/clinical) of undergraduate medical students.
- Several seminar presentations on relevant pediatric topics.
- Sharing in organization of several workshops (e.g., neonatal resuscitation, mechanical ventilation, advanced life support, inherited metabolic diseases) and conferences (e.g., annual Sohag cardiology and neurology conferences).

- Providing lectures and hand-on training in the skills laboratory for under- and postgraduate students.
 - Informal mentoring/supervision of dissertation work/theses of postgraduate students.
- Dec 2017-Present **Member of Curriculum Reform Committee** Sohag Faculty of Medicine
- Reform of medical undergraduate program according to recent guidelines.
 - Preparation of Curriculum map/rules for bylaws.
 - Coordinating courses/blocks specifications.
 - Training/capacity building.
 - Evaluation and Feedback
- Aug 2014-Jul 2015 **Vice Director of International Students Unit** Sohag Faculty of Medicine
- Recruitment, mentoring, and supervision of international students.
- Feb 2014-Jul 2015 **Member of Infection Control Unit** Sohag Faculty of Medicine
- Designation of institutional infection control guidelines.
 - Teaching the medical staff how to implement these guidelines.
 - Supervising adherence of medical staff.
 - Evaluation of efficacy of these guidelines.
- Jan 2014-Jul 2015 **Assistant Project manager** Sohag University Hospital
- Preparing a project for setting up a pediatric intensive care unit and expanding the neonatal intensive care unit.
 - Calling and communication with several funding foundations to support this project.
 - Implementing a collaboration protocol with the Commercial International Bank Foundation to fund this project.
 - Nominating scientifically sound medical equipment.
 - Training of medical staff on the proper use of new medical equipment.
 - Supervising the active work of the newly established PICU (10 fully equipped beds) and the developed NICU (12 new fully equipped incubators).
- Sep 2013-Aug 2014 **Vice Director of Student Assessment Unit** Sohag Faculty of Medicine
- Development, supervision, and evaluation of student assessment methods according to the modern scientifically sound guidelines.

PROFESSIONAL MEDICAL EXPERIENCE

- Apr 2018-Present **Consultant** (Pediatrics&Neonatology) Sohag University Hospital
- Advanced experience in management of pediatric emergency and intensive care patients (ER&PICU).
 - High experience in management of most conditions in neonatal intensive care unit (NICU)
 - Advanced experience in techniques and modes of neonatal and pediatric mechanical ventilation.
 - High experience in management of a wide variety of outpatient and inpatient pediatric patients.
 - Management of pediatric patients with suspected/proved inherited metabolic disorders.

- Apr 2012-Apr 2018 **Specialist** (Pediatrics&Neonatology) Sohag University Hospital
- High experience in management of common pediatric emergency and intensive care patients (ER&PICU).
 - High experience in management of common conditions in neonatal intensive care unit (NICU)
 - High experience in techniques and modes of neonatal and pediatric mechanical ventilation.
 - High experience in management of common outpatient and inpatient pediatric patients.
 - Management of pediatric patients with suspected/proved inherited metabolic disorders.
- Jul 2015-Jul 2017 **Visiting Physician** Gifu University (Japan)
- High experience in management of neonatal and pediatric intensive care patients, using state-of art technology and innovative techniques.
 - High experience in management of a wide variety of neonatal and pediatric inpatients and outpatients according to latest guidelines.
 - High experience in diagnosis and management of inherited metabolic disorders.
- Mar 2009-Apr 2012 **Resident Physician** (Pediatrics&Neonatology) Sohag University Hospital
- Experience in diagnosis and management of common neonatal and pediatric diseases (inpatients, outpatients, and emergencies).
 - Experience in management of neonatal and pediatric intensive care patients, including mechanical ventilation.
 - Experience in management of common neurological, genetic, and metabolic disorders in children as I have spent more than 2 years in the pediatric neurology out-patient clinic, where we encounter a lot of genetic and metabolic disorders.

MEMBERSHIPS

- Member of Egyptian Society of Medical Education (ESME)
- Member of Egyptian Society of Pediatric Intensive Care (ESPEC)

FEATURED PUBLICATIONS/PRESENTATIONS *(Detailed list shown in Appendix 3)*

- Nakama M, Otsuka H, Ago Y, Sasai H, **Abdelkreem E**, Aoyama Y, Fukao T (2018) Intronic antisense Alu elements have a negative splicing effect on the inclusion of adjacent downstream exons. *Gene* 664:84-89. DOI: 10.1016/j.gene.2018.04.064
- Sasai H, Aoyama Y, Otsuka H, **Abdelkreem E**, Naiki Y, Kubota M, Sekine Y, Itoh M, Nakama M, Ohnishi H, Fujiki R, Ohara O, Fukao T (2017) Heterozygous carriers of succinyl-CoA:3-oxoacid CoA transferase deficiency can develop severe ketoacidosis. *J Inherit Metab Dis* 40(6): 845–852. DOI: 10.1007/s10545-017-0065-z1
- Nguyen KN, **Abdelkreem E**, Colombo R, Hasegawa Y, Can NT, Bui TP, Le HT, Tran MT, Nguyen HT, Trinh HT, Aoyama Y, Sasai H, Yamaguchi S, Fukao T, Vu DC (2017) Characterization and outcome of 41 patients with beta-ketothiolase deficiency: 10 years' experience of a medical center in northern Vietnam. *J Inherit Metab Dis* 40(3): 395-401. DOI: 10.1007/s10545-017-0026-6
- **Abdelkreema E**, Alobaidy H, Aoyama Y, Mahmoud S, Abd El Aal M, Fukao T (2017) Two Libyan siblings with beta-ketothiolase deficiency: A case report and review of literature. *Egypt J Med Hum Genet* 18(2): 199-203. DOI: 10.1016/j.ejmhg.2016.11.001
- **Abdelkreem E**, Akella RR, Dave U, Sane S, Otsuka H, Sasai H, Aoyama Y, Nakama M, Ohnishi H, Mahmoud S, Abd El Aal M, Fukao T (2017) Clinical and Mutational Characterizations of Ten Indian Patients with Beta-Ketothiolase Deficiency. In: Morava E., Baumgartner M., Patterson M.,

Rahman S., Zschocke J., Peters V. (eds) *JIMD Reports*, vol 35. Springer, Berlin, Heidelberg.
DOI: 10.1007/8904_2016_26

- **Abdelkreem E**, Otsuka H, Sasai H, Aoyama Y, Hori T, Abd El Aal M, Mahmoud S, Fukao T (2016) Beta-ketothiolase deficiency: Resolving challenges in diagnosis. *J Inborn Errors Metab Screen*. 4(1): 1-9. DOI: 10.1177/2326409816636644
- Molecular characterization of beta-ketothiolase deficiency in 10 Indians: Discovery of 4 novel mutations in ACAT1 gene (*oral presentation*). *The 13th International Congress of Human Genetics* (ICGH), 3-7 Apr 2016, Kyoto, Japan.

ATTENDED CONFERENCES/WORKSHOPS

Shown in Appendix 4

OTHER SKILLS

Journal reviewing/editorial experience

A current reviewer at:

- *Clinical Medicine Insights: Pediatrics* (5 reviews)
- *Oman Medical Journal* (9 reviews)

A current editorial board member at:

- *BOAJ Pediatrics*

IT

- International Computer Driving License (*ICDL*)
- Experience and daily use of *Microsoft Office Suite*.
- Experience in *statistical analysis using SPSS program*

Languages

- *Arabic (native)*
- *English (very good)*
 - *TOEFL iBT (102)* on 5th May 2018
 - Advanced English Conversation Course (Sohag University) with Excellent Grade (96%).

FURTHER INFORMATION

Date and place of birth November 27th, 1984, Egypt

Nationality Egypt

Marital status Married and have two daughters

Hobbies Reading, running.

Charity/volunteering works

- Sharing and organization of charity medical campaigns to remote communities with limited health care facilities.

REFEREES

Prof. Toshiyuki Fukao (Supervisor)
Department of Pediatrics
Graduate School of Medicine
Gifu University
1-1 Yanagido, Gifu 501-1194, Japan.
Tel: 81-58-230-6386
Fax: 81-58-230-6386
E-mail: toshi-gif@umin.net

Prof. Mohamed Abd El Aal (Employer, Supervisor)
Department of Pediatrics
Faculty of Medicine
Sohag University
Nasser city, Sohag 82524, Egypt.
Tel: (002) 01090454666
E-mail: mohamed_1370@hotmail.com

Prof. Ali Abo-Elmagd (Supervisor)
Department of Pediatrics
Faculty of Medicine
Sohag University
Nasser city, Sohag 82524, Egypt
Tel: (002) 01009332366
E-mail: alimagd2@yahoo.com

Prof. Ehab Abd El-Moneim (Supervisor)
Neonatal and Pediatric Intensive Care Medicine
Taibah University
Almadinah Elmonawarah
Universities Road 344, Saudi Arabia.
Tel: 00966556555293
E-mail: esmohamed@taibahu.edu.sa

Prof. Abdelrahim Sadek (Supervisor)
Department of Pediatrics
Faculty of Medicine
Sohag University
Nasser city, Sohag 82524, Egypt.
Tel: (002) 01065067057
E-mail: abdoneurology@yahoo.com

List of Appendices

1. Abstract of doctoral thesis
2. Abstract of master thesis
3. List of publications and conference presentations
4. Attended conferences and workshops

Appendix 1 Abstract of doctoral thesis

Title: Clinical and Molecular Characterization of Beta-ketothiolase Deficiency

Abstract: Beta-ketothiolase deficiency (mitochondrial acetoacetyl-CoA thiolase [T2] deficiency) is a rare inherited disease of isoleucine and ketone body metabolism caused by mutations in ACAT1 gene. In this work, between Feb 2015 and Jul 2017, we identified 23 new patients with T2 deficiency, including the first two Egyptian patients confirmed on the molecular level. All patients presented with episodic ketoacidosis, commonly between 6 and 24 months of age, in association with ketogenic triggers. Mutational analysis revealed twelve mutations in ACAT1 gene, six of which are novel (p.Ala215Asn, p.Ala225Glu, p.Ile323Thr, p.Glu354Ala, c.730+1G>A, and c.1012_1015dup). p.Arg208* and p.Met193Arg were the most common identified mutations, detected in seven and five patients, respectively. Transient expression analysis demonstrated that p.Ile323Thr mutant T2 protein has a significant residual T2 activity and is unstable in a temperature-sensitive manner, whereas p.Met193Arg, p.Ala215Asn, p.Ala225Glu and c.1012_1015dup are null mutations. The preponderance of null mutations correlates with the typical biochemical abnormalities in most patients. However, there was no correlation between the genotype and the clinical phenotype. Twenty-two percent of patients had unfavorable outcome. The age of onset, frequency of episodes, and genotype did not affect the eventual outcome; rather, proper acute and preventive measures were crucial for a better prognosis. We propose that this disease likely has a high incidence in Egypt, and it should be considered in patients with nondiabetic ketoacidosis.

Appendix 2 Abstract of master thesis

Title: Clinical Features of Cerebral Cortex Malformation in Children: Observational Retrospective Study in Sohag University Hospital Abstract

Background: Malformations of Cortical Development (MCDs) correspond to a broad spectrum of cerebral lesions resulting from cortical development abnormalities during embryogenesis. MCDs are increasingly recognized as an important cause of epilepsy, especially refractory ones.

Aims: Evaluation of pattern and clinical spectrum of MCDs.

Patients and methods: The data of children presented to the Pediatric Department, or Pediatric Neurology Clinic, Sohag University Hospital, in whom Computed Tomography or Magnetic Resonance Imaging (MRI) brain showed MCDs, were collected retrospectively regarding their history, examinations, and developmental parameters, Electroencephalography, and Intelligence Quotient.

Results: during the study period, we reviewed the data of 50 patients with MCDs. The mean age of the study group was 3.7 yrs (range: 4 d to 15 yrs). Most patients (50%) belonged to the age group 1-5 yrs old. Convulsions were the main complaint in most children—21 (42%) out of 50 cases, followed by global developmental delay in 20 out of 50 cases. Seizures generally were present in 82% of cases. Concerning type of seizures, multiple seizure types were found in 16 (39%) out of 41 cases, partial seizures found in 13 (31.7%), generalized tonic in 6 (14.6%), infantile spasm in 4 (9.8%), and generalized tonic-clonic in 2 (4.8%) of cases. Types of MCDs in the studied children as defined by neuro-imaging, included lissencephaly (42%), bilateral schizencephaly (16%), unilateral schizencephaly (12%), polymicrogyria (12%), focal cortical dysplasia (10%), periventricular heterotopia (6%), and subcortical laminar heterotopia (2%).

Conclusion: The most common MCDs found in Sohag University Hospital were lissencephaly and schizencephaly. In addition, the most common clinical features of MCDs in our community are refractory seizures and/or global developmental delay, and the most valuable tool in diagnosis is brain MRI.

Recommendations: Informing pediatricians to raise their clinical suspicion to MCDs in children presented by frequent, intractable, early onset, and partial or multiple types' seizures and/or global developmental delay, and that MRI brain must be done then.

Appendix 3 List of publications and conference presentations

PUBLICATIONS

orcid.org/0000-0002-8976-2989

- Nakama M, Otsuka H, Ago Y, Sasai H, **Abdelkreem E**, Aoyama Y, Fukao T (2018) Intronic antisense Alu elements have a negative splicing effect on the inclusion of adjacent downstream exons. *Gene* 664:84-89. DOI: 10.1016/j.gene.2018.04.064
- Sasai H, Aoyama Y, Otsuka H, **Abdelkreem E**, Naiki Y, Kubota M, Sekine Y, Itoh M, Nakama M, Ohnishi H, Fujiki R, Ohara O, Fukao T (2017) Heterozygous carriers of succinyl-CoA:3-oxoacid CoA transferase deficiency can develop severe ketoacidosis. *J Inherit Metab Dis* 40(6): 845–852. DOI: 10.1007/s10545-017-0065-z1
- Aoyama Y, Sasai H, **Abdelkreem E**, Otsuka H, Nakama M, Kumar S, Aroor S, Shukla A, Fukao T (2017) A novel mutation (c.121-13T>A) in the polypyrimidine tract of the splice acceptor site of intron 2 causes exon 3 skipping in mitochondrial acetoacetyl-CoA thiolase gene. *Mol Med Rep*. 15(6): 3879-3884. DOI: 10.3892/mmr.2017.6434
- Nguyen KN, **Abdelkreem E**, Colombo R, Hasegawa Y, Can NT, Bui TP, Le HT, Tran MT, Nguyen HT, Trinh HT, Aoyama Y, Sasai H, Yamaguchi S, Fukao T, Vu DC (2017) Characterization and outcome of 41 patients with beta-ketothiolase deficiency: 10 years' experience of a medical center in northern Vietnam. *J Inherit Metab Dis* 40(3): 395-401. DOI: 10.1007/s10545-017-0026-6
- Sasai H, Aoyama Y, Otsuka H, **Abdelkreem E**, Nakama M, Hori T, Ohnishi H, Turner L, Fukao T (2017) A single nucleotide substitution T to A in the poly-pyrimidine stretch at splice acceptor site of intron 9 causes exon 10 skipping in ACAT1 gene. *Mol Genet Genomic Med* 5(2): 177-184. DOI: 10.1002/mgg3.275
- **Abdelkreema E**, Alobaidy H, Aoyama Y, Mahmoud S, Abd El Aal M, Fukao T (2017) Two Libyan siblings with beta-ketothiolase deficiency: A case report and review of literature. *Egypt J Med Hum Genet* 18(2): 199-203. DOI: 10.1016/j.ejmhg.2016.11.001
- **Abdelkreem E**, Akella RR, Dave U, Sane S, Otsuka H, Sasai H, Aoyama Y, Nakama M, Ohnishi H, Mahmoud S, Abd El Aal M, Fukao T (2017) Clinical and Mutational Characterizations of Ten Indian Patients with Beta-Ketothiolase Deficiency. In: Morava E., Baumgartner M., Patterson M., Rahman S., Zschocke J., Peters V. (eds) *JIMD Reports*, vol 35. Springer, Berlin, Heidelberg. DOI: 10.1007/8904_2016_26
- Otsuka H, Sasai H, **Abdelkreem E**, Kawamoto N, Kawamoto M, Kamiya T, Tanimoto Y, Kikuchi A, Kure S, Numakura C, Hayasaka K, Fukao T (2016) Effectiveness of Medium-Chain Triglyceride Oil Therapy in Two Japanese Citrin-Deficient Siblings: Evaluation Using Oral Glucose Tolerance Tests. *Tohoku J Exp Med*. 240(4):323-328. DOI: 10.1620/tjem.240.323
- Otsuka H, Sasai H, Nakama M, Aoyama Y, **Abdelkreem E**, Ohnishi H, Konstantopoulou V, Sass JO, Fukao T (2016) Exon 10 skipping in ACAT1 caused by a novel c.949G>A mutation located at an exonic splice enhancer site. *Mol Med Rep*. 14(5): 4906-4910. DOI: 10.3892/mmr.2016.5819
- Erdol S, Ture M, Yakut T, Saglam H, Sasai H, **Abdelkreem E**, Otsuka H, Fukao T (2016) A Turkish patient with succinyl-CoA:3-oxoacid CoA transferase deficiency mimicking diabetic ketoacidosis. *J Inborn Errors Metab Screen*. 4(1): 1-5. DOI: 10.1177/2326409816651281
- **Abdelkreem E**, Otsuka H, Sasai H, Aoyama Y, Hori T, Abd El Aal M, Mahmoud S, Fukao T (2016) Beta-ketothiolase deficiency: Resolving challenges in diagnosis. *J Inborn Errors Metab Screen*. 4(1): 1-9. DOI: 10.1177/2326409816636644
- Sadek AA, Ahmed Sharaf AE, **Abdelkreem EM**, Abdul Wahed SR (2013) Clinical Features of Cerebral Cortex Malformations in Children: A Study in Upper Egypt. *OMICS J Radiology*. 2(5): 123. DOI: 10.4172/2167-7964.1000123

CONFERENCE PRESENTATIONS

- Non-diabetic Ketoacidosis (oral presentation). 2nd Joint Al-Azhar Pediatric Conference, 05-07 **Jul 2018**, Alexandria, Egypt.
- Clinical, biochemical, and molecular features of beta-ketothiolase deficiency: a case series of 23 patients (oral presentation). 4th Scientific Conference of Young Researchers, 17-18 **Apr 2018**, Sohag, Egypt.
- Pediatric emergencies: case scenarios and pitfalls (oral presentation). 1st workshop of Sohag University Hospital PICU, 11 **Apr 2018**, Sohag Egypt.
- Metabolism and disorders of ketone bodies (oral presentation). 1st Sohag Conference of Inborn Errors of Metabolism, 26-27 **Feb 2018**, Sohag Egypt.
- Modes and settings of Mechanical Ventilation (oral presentation). Basics of Neonatal Mechanical Ventilation Workshop, 19-21 **Jul 2017**, Sohag, Egypt.
- Clinical and mutational characterizations of 10 Indian patients with beta-ketothiolase deficiency (*oral presentation*). Conference of *Japanese Society of Inherited Metabolic Diseases* (JSIMD 58) 27-29 **Oct 2016, Tokyo, Japan**.
- Molecular characterization of beta-ketothiolase deficiency in 10 Indians: Discovery of 4 novel mutations in ACAT1 gene (*oral presentation*). *The 13th International Congress of Human Genetics* (ICGH), 3-7 **Apr 2016, Kyoto, Japan**.
- Pediatric emergencies; Case presentations (oral presentation). Pediatric Emergencies Workshop. 10-11 **Jun 2015**, Sohag, Egypt.
- Pediatric Basic Life Support (oral presentation). 1st Aid Management Workshop. Medical Education and Development Center, Clinical Skill Lab, 1-9 **Feb 2014**, Sohag, Egypt.

Appendix 4 Attended conferences and workshops

CONFERENCES

- 9th Scientific Congress of Pediatric Intensive Care. 19-20 Jul 2018, Cairo, Egypt.
- 2nd Joint Al-Azhar Pediatric Conference. 05-07 Jul 2018, Alexandria, Egypt.
- 4th Scientific Conference of Young Researchers. 17-18 Apr 2018, Sohag, Egypt.
- 1st Sohag Conference of Inborn Errors of Metabolism. 26-27 Feb 2018, Sohag, Egypt.
- 15th Annual Scientific Conference of Pediatric Department, Assiut University (Update on Diagnostic Spectra of Pediatrics). 7-10 Feb 2018, Luxor, Egypt.
- The Egyptian Society of Nephrology and Transplantation (ESNT) Outreach Program (Sohag course). 28-30 Dec 2017, Sohag, Egypt.
- Conference of Japanese Society of Inherited Metabolic Diseases (JSIMD 58). 27-29 Oct 2016, Tokyo, Japan.
- The 13th International Congress of Human Genetics (ICGH). 3-7 Apr 2016, Kyoto, Japan.
- The Egyptian Congress of Pediatric Pulmonology. 27-29 May 2015, Bibliotheca Alexandrina, Egypt.
- 2nd Sohag Cardiology Conference (Common Neonatal Cardiac Problems). 25 Mar 2015, Sohag, Egypt.
- 4th Sohag Neuropediatrics Conference. 4 Mar 2015, Sohag, Egypt.
- 14th Annual Conference of the Egyptian Society of Pediatric Nephrology and Transplantation (ESPNT). 8-10 May 2014, Cairo, Egypt.
- 9th Scientific Annual Conference of Sohag Faculty of Medicine (Applied scientific Researches; a fact or fiction?), 24-25 Apr 2014, Sohag, Egypt.
- 1st Sohag Cardiology Conference (Updates in Childhood Cardiomyopathy). 27 Mar 2014, Sohag, Egypt.
- 1st Assiut Neuropediatrics Conference. 27 Feb 2014, Assiut, Egypt.
- 1st Sohag Haematology Conference. 23 Jan 2014, Sohag, Egypt.
- 3rd Sohag Neuropediatrics Conference. 26 Dec 2013, Sohag, Egypt.
- The Egyptian Society of Nephrology and Transplantation (ESNT) Outreach Program. 5-6 Dec 2013, Sohag, Egypt.

- 1st Upper Egypt Neuroscience. 12-13 Sep 2012, Hurghada, Egypt.
- 11th Assiut pediatrics conference (Pediatrics Guidelines). 29-31 Mar 2012, Hurghada, Egypt.
- 4th Beni-Suef Pediatrics conference (Advances in pediatrics). 23-24 Feb 2012, Hurghada, Egypt.
- Pediatric postoperative cardiac intensive care. 18-19 Jan 2012, Cairo, Egypt.
- 6th Upper Egypt Pediatric Congress. 8-10 Dec 2011, Hurghada, Egypt.
- 3rd Beni-Suef Pediatrics conference (Pediatricians' Concerns). 18-20 May 2011, Hurghada, Egypt.
- The Scientific Annual Meeting of Sohag Faculty of Medicine (Environmental pollution and Medical Problems in Upper Egypt). 5-6 Apr 2007, Sohag, Egypt.

WORKSHOPS

- ASU-MENA-FRI Academic leader Training (Manage the Change). 25 Jul 2018, Faculty of Medicine-Ain Shams University, Cairo, Egypt.
- 10th National Workshop in Medical Education. 1 Jul 2018, Faculty of Medicine, Suez-Canal University, Ismailia, Egypt.
- 1st workshop of Sohag University Hospital PICU. 11 Apr 2018, Department of Pediatrics, Sohag University, Sohag, Egypt.
- Scientific Supervision on dissertations. 18-20 Feb 2018, Medical Education Development Center, Sohag University, Sohag, Egypt.
- Training of Trainers. 17-27 Feb 2018, Faculty Leadership Development Center, Sohag University, Sohag, Egypt.
- Design Your Effective Training Course Step by Step. 27 Dec 2017, DAAD Kairo AKademie, Cairo, Egypt.
- Writing Scientific Papers. 24-25 Dec 2017, Medical Education Development Center, Sohag University, Sohag, Egypt.
- Thinking Skills. 23-25 Dec 2017, Faculty Leadership Development Center, Sohag University, Sohag, Egypt.
- Statistical Analysis in Scientific Research. 16-18 Dec 2017, Faculty Leadership Development Center, Sohag University, Sohag, Egypt.
- International Publishing of Research. 09-11 Dec 2017, Faculty Leadership Development Center, Sohag University, Sohag, Egypt.
- Basics of Neonatal Mechanical Ventilation. 19-21 Jul 2017, Department of Pediatrics, Sohag University, Sohag, Egypt.
- Proposal Writing & Research Writing (AuthorAID). 18 Apr-12 Jun 2017, AuthorAID&INSAP (Online course).
- Pediatric Emergencies II. 17-18 Jun 2015, Department of Pediatrics, Sohag University, Sohag, Egypt.
- Pediatric Emergencies I. 10-11 Jun 2015, Department of Pediatrics, Sohag University, Sohag, Egypt.
- Radiological procedures for pediatric pulmonary diseases. 27-29 May 2015, the Egyptian congress of pediatric pulmonology, Bibliotheca Alexandrina, Egypt.
- Neonatal Ventilation Course. 15-16 Apr 2015, the National Training Institute, Ministry of Health, Cairo, Egypt.
- Diagnosis, Prevention and Therapy of genetic disorders. 7-12 Feb 2015, Ain-Shams Faculty of medicine, Cairo, Egypt.
- Training Program for Maternal & Child Health and Nutritional care. 27-28 Feb 2014, MCHIP Egypt, Sohag, Egypt.
- 41st workshop of Training of Academics. 10-20 Feb 2014, Faculty of Education, Sohag University, Sohag, Egypt.
- Proposal writing GERLS. 26 Sep 2013, DAAD Kairo AKademie, Cairo, Egypt.
- NU 100; Entrepreneurship course. Summer 2013, Nile University, Egypt.
- Basic Principles & Clinical Applications of PCR. 16-18 Jun 2013, Central Research Laboratory, Sohag, Egypt.

- Diagnosis & Therapy of genetic disorders and congenital anomalies. 9-14 Feb 2013, Ain-Shams Faculty of medicine, Cairo, Egypt.
- Neonatal Resuscitation Training Provider Course (Standardized by the American Academy of Pediatrics). 17-18 Jan 2013 Future Pediatricians Society, Luxor, Egypt.
- Update of Pediatric Nutrition. 10 Jan 2013, Department of Pediatrics, Sohag University, Sohag, Egypt.
- Basic and Advanced Modes of Mechanical Ventilation in Infants and Children. 28-29 Nov 2012, Department of Pediatrics, Sohag University, Sohag, Egypt.
- Pediatric Fundamental Critical Care Support (PFCCS) Course. 30 Jun & 1 Jul 2012, Society of critical care medicine, Assiut University Children Hospital, Assiut, Egypt.
- Recent advances in management of critically ill patients in ICU. 30-31 Dec 2011, Department of Critical Care, Sohag University, Sohag, Egypt.
- Breast feeding promotion and support in a baby friendly hospital (UNICEF and WHO Course). 13-15 Sep 2011, Mother and Child Friendly Care Association (MCFC), Sohag, Egypt.
- Credit hours. 5-7 Jul 2011, Medical Education Development Center, Sohag University, Sohag, Egypt.