



**DR. AHMED SALEM MOHAMED**  
**MBBCH, MSc, MD, PHD**

American Board Certified

ORTHOPEDIC SPINE SURGEON

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Fellowship trained spine surgeon, I completed several fellowship programs: Advanced Reconstructive spinal surgery at Johns Hopkins University, Baltimore, Maryland, and Adult Scoliosis and Trauma fellowships at the Oregon Health and Science University, Portland, Oregon. AO trauma fellowship in Switzerland and 2years research fellowship at Johns Hopkins. I earned my medical degree as well as my orthopedic residency from Egypt.

My main areas of clinical expertise include spine deformities and scoliosis, degenerative spine disorders, Spine infection, spine tumors and disc arthroplasty.

➤ **Education:**

**MBBCH {MD}** “Excellent with honor”: 1993-2000

**Degree:**

**Master’s degree** “Orthopedic Science”: 2004

**Doctorate degree {PhD}** “Orthopedics and Spine Surgery”: 2012

➤ **Licensures and Board Certifications:**

**Registered physician Egyptian medical syndicate:** 140807

**Illinois:** 036-136254/Current

**Illinois Controlled Substance:** Current      **Illinois DEA:** Current

**Ohio:** 35.123508/Current

**Virginia:** 0101256993/Current

**Washington:** 60530039/Current

**UAE:** 100139/Current

**USMLE Steps I, II and III – passed.**

**ECFMG:** 07387095 / Certified: 2008

**EPIC ID :**C-MA054077

**MBBCH** “Excellent with honor”: 2000

**Master’s degree** “Orthopedic Science”: 2004

**Doctorate degree {PhD}** “Orthopedics and Spine Surgery”: 2012

**Consultant certificate** “Egypt medical syndicate” 2013

**BLS/ACLS:** 846248430

**FCVS FID:** 203614250

➤ **Hospital Privileges and affiliations:**

- Crossroads community Hospital, Mt. Vernon, IL

- Gateway Regional Medical center, Granite city, IL
- Heartland Regional medical center , Marion , IL
- SSM surgery center, Mt. Vernon, IL.
- Harrisburg Medical center, Harrisburg, IL.
- Surgery Center of Centralia, Centralia, IL.
- South Illinois Surgery Center, Marion, IL.
- Kindred Hospital, Peoria, IL.

➤ **Present Appointment:**

- **4/2016-current**
- **Egyptian Spine Clinic**  
Founder, CEO Egyptian Spine Clinic, LLC  
412 S. 34<sup>th</sup> Street  
Suite 101  
Mt Vernon, IL, 62864
- **3/2013-Current:**  
Attending Spine surgeon and consultant of Trauma, Orthopedic and Spine Surgery.  
Faculty of Medicine, Zagazig University, Egypt.

**Previous Appointment:**

- **11/2014-9/2015**  
Spine surgeon.  
Prairie Spine & Pain Institute of Southern Illinois  
Marion, IL, USA
- **08/2004- 3/2013:**  
Assistant Lecturer of Trauma and Orthopedic Surgery.  
Faculty of Medicine, Zagazig University, Egypt.
- **03/2001-08/2001**  
General physician.  
Ministry of Health and Population.

➤ **Training:**

- **2014-2014**  
Spine Clinical fellowship  
Neurosurgery department  
Ohio state University “OSU”, USA
- **2013-2014**  
Pediatrics/orthopedics Research fellowship  
Orthopedic surgery department  
Nemours children’s’ clinic, USA
- **2012-2013**

**Spine Research fellowship**

*Spine unit-Orthopedic surgery department  
Oregon health & Science University "OHSU", USA*

▪ **2011-2012**

**Spine -Trauma Clinical fellowship**

*Spine unit-Orthopedic surgery department  
Oregon health & Science University "OHSU", USA*

▪ **2010-2011**

**Spine Clinical fellowship**

*Spine unit-Orthopedic surgery department  
Johns Hopkins University "JHMI", USA*

▪ **2010-2010**

**AO trauma clinical fellowship**

*Kantonsspital, Graubünden, Chur.  
Switzerland.*

▪ **2006-2009**

**Spine Research fellowship**

*Spine unit-Orthopedic surgery department  
Johns Hopkins University.USA*

▪ **2004- 2006:**

**Assistant Lecturer of Trauma and Orthopedic Surgery.**  
*Faculty of Medicine, Zagazig University, Egypt.*

▪ **2001-2004**

**Resident of Trauma and Orthopedics.**

*Zagazig University Teaching Hospitals, Zagazig, Egypt.*

▪ **2000-2001**

**Intern**

*Zagazig University Teaching Hospitals, Zagazig, Egypt.*

➤ **Education:**

▪ **1993-2000**

**Medical school "MBBCh"**  
*Zagazig Faculty of Medicine,  
Zagazig University, Egypt.*

▪ **1990-1993**

**Zagazig High school**  
*Zagazig, Sharkia, Egypt*

➤ **Clinical experience:**

\* *Spine clinical fellowship at Oregon Health and science University* : 12 months of Assessment and investigation of patients with spinal injury and experience of the operative techniques involved in treating these patients including MIS techniques and assessment and investigation of patients with spinal deformity, degenerate, neoplastic and infective problems. Trained in

minimally invasive techniques (MIS) including, vertebroplasty, kyphoplasty. Participated in clinical and basic science research projects.

**\*Spine clinical fellowship at Johns Hopkins University:** 12 months of assessment and investigation of patients with complex spinal disease and experience of the operative techniques involved in treating these patients, assessment and investigation of patients with degenerate, neoplastic, infective and traumatic disorders of the spine and trained in minimally invasive techniques (MIS) including, vertebroplasty, kyphoplasty, and MIS spinal fusion techniques.

**\*AO-trauma short term clinical fellowship:** CHRISTOPHER SOMMER, MD, surgical department, Kantonsspital-Graubünden, Chur, Switzerland, 6 weeks, including the assessment and treating complex and open fractures using the advanced AO techniques and MIPO techniques in polytrauma patients.

\*36 Months of experience in assessment and management of all kind of modern Spine surgery, trauma and deformity with MOHAMED M. MOSSAAD, MD at Zagazig University Hospitals, Egypt.

\*24 Months of experience in assessment and management of all kind of modern Spine surgery, trauma and deformity with YOUSSEF M. ELHAWARY, MD at As-Salam international hospital, Unit of Specialized Surgery, Cairo, Egypt

**\*Residency:** 36 months of experience of management and assessment of Trauma and Orthopedic Surgeries, Zagazig University Hospitals. Including the assessment, management and care of patients with orthopedic emergencies( all kinds of trauma including open fractures with different grades and gunshot fractures, cut tendons, septic arthritis of all joints and methods of drainage ,acute osteomyelitis ,compartmental syndromes.....etc).

Obtained the ability to well deal with:

- All spine orthopedic problems.
- All methods of internal and external fixation and principles of AO/ASIF.
- Arthroplasty of hip and knee.
- Knee and shoulder arthroscopy.
- Hand surgery.
- Foot and ankle surgery.

**\*Internship:** 12 Months of experience of Accident and Emergency Medicine. Competent in initial management, assessment of polytraumatized patients, and in dealing with medical and surgical emergencies including care of the critically ill patients, Zagazig University Hospitals Egypt.

### ➤ Research Experience:

**\*Research fellowship:** spine unit, orthopedic surgery Dept., Johns Hopkins University, Baltimore, USA. During which I had the opportunity to conduct clinical research into complex spinal disorders.

**\*Research fellowship:** spine unit, orthopedic surgery Dept., Oregon Health and Science University, Portland, USA. During which I had the opportunity to conduct clinical and animal research into complex spinal disorders.

\***Research fellowship:** Orthopedic surgery Dept., Nemours children's clinic, Jacksonville, USA. During which I had the opportunity to conduct clinical research into complex pediatrics orthopedics disorders.

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➤ **Teaching Experience:**

\*Teaching to under and postgraduate trauma and orthopedics. Competent in using different teaching modalities.

▪ **Lectures:**

\*under and postgraduate trauma and orthopedic surgery teaching at Zagazig University.  
\*weekly spinal conference at OHSU in collaboration with the neurosurgery department.

▪ **Tutorials:**

\*small and large groups undergraduate teaching of trauma and orthopedic surgery at Zagazig University hospitals  
\*daily bed-side teaching and training of house officer during their orthopedic rotation at Zagazig University hospitals.

▪ **Case presentation:**

\*Grand ward rounds at Zagazig University teaching hospitals.  
\*Grand round, Oregon health and Science University.

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➤ **Peer- reviewed Publications:**

1. Functional Outcomes and Complications following Primary Spinal Surgery for Scoliosis in Adults Age 40 Years and Older: A Prospective Study, with a Minimum 2-Year Follow-Up. Zimmerman RM, **Mohamed AS**, Skolasky RL, Robinson MD, Kebaish KM-  
-*Spine (Phila Pa 1976)*. 2010 sep15; 35(20):1861-1866

2. Low Profile Pelvic Fixation Using the S2 Alar Iliac (S2AI) Method in the Pediatric Population: A Retrospective Study with 2-Year Minimum Follow-Up. Sponseller PD, Zimmerman RM, Ko PS, Pull Ter Gunne AF, **Mohamed AS**, Chang TL, Kebaish KM.  
-*Spine (Phila Pa 1976)*. 2010 Sep 15; 35(20):1887-92.

3. The Presentation, Incidence, Etiology, and Treatment of Surgical Site Infections after Spinal Surgery.  
Albert F. Pull ter Gunne, MD, **Ahmed S. Mohamed, MD**, Richard L. Skolasky, ScD, Cees J. H. M. van Laarhoven, MD, PhD, David B. Cohen, MD, MPH  
- *Spine (Phila Pa 1976)*. 2010 Jun 1; 35(13):1323-8.

4. Preliminary results of the effect of prophylactic vertebroplasty on the incidence of proximal junctional complications after posterior spinal fusion to the low thoracic spine.  
Martin CT, MD, Skolasky RL, **Mohamed AS, MD**, Kebaish KM, MD  
*-Spine Deform. 2013; 1(2):132-138.*

5. Posterior fixation without anterior debridement for vertebral body osteomyelitis and discitis **Ahmed S. Mohamed, MD**, Jung Yoo, MD, Penelope Barnes, MD, Robert Hart, MD, Brian Ragel, MD, Jayme Hiratzka, MD, David Kojo Hamilton, MD, Kimberly Felder, PA, *Alexander Ching, MD\**  
*- Neurosurgical Focus Aug 2014 / Vol. 37 / No. 2, Page E6*

6. Atlantoaxial rotatory subluxation in children: Review article.  
Kevin M. Neal, MD, **Ahmed S. Mohamed, MD**.  
*-J Am Acad Orthop Surg. 2015 Jun; 23(6):382-392.*

7. Influence of Back Pain on Patient Satisfaction Scores.  
Shirley ED, **Mohamed AS**, Neal K.  
*-South Med J. 2015 Jun; 108(6):377-80. doi: 10.14423/SMJ.0000000000000291.*

8. Radiographic and Clinical Results of L5 and S1 Pedicle Subtraction Osteotomies (PSO) for the Correction of Spinal Sagittal Imbalance.  
, Hassan Alosh MD, **Ahmed S. Mohamed MD**, Lee Riley III, MD, Khalid M Kebaish, MD  
*-The Spine Journal, 2009, 9 (10), p57S*

9. A New Low Profile Sacro-Pelvic Fixation Using S2 Alar Iliac (S2AI) Screws in Adult Deformity Fusion to the Sacrum: A Prospective Study with Minimum Two-Year Follow-Up.  
Kebaish KM, Gunne AP, **Mohamed AS**, Skolasky RL, Zimmerman R, Ko PS, O'Brien JR, Sponseller P.  
*-The Spine Journal, 2009, 9 (10), 56S-57S*

10. *Atlantoaxial rotatory subluxation in children: Systematic review.*  
**Ahmed S. Mohamed, MD**, Kevin M. Neal, MD.  
*-Journal AAOS*

11. Incidence of Pseudoarthrosis at the Lumbosacral Junction in Long Posterior Fusion to the Sacrum in Adult Spinal Deformity: Comparison between Patients with and Without Anterior Structural Support at L5-S1.  
Mesfin A, **Mohamed AS**, Hassanzadeh H, Skolasky R, Kebaish KM.  
*-Spine, in press.*

12. *Temporary guided growth for limb length discrepancy and deformity: Review of devices and complications.*  
**Ahmed S. Mohamed, MD**, Kevin M. Neal, MD.  
**JPO-In progress**

13. *Incisional Wound V.A.C. Therapy Following Scoliosis Surgery*  
**Ahmed S. Mohamed, MD**, Kevin M. Neal, MD.  
**JPO-In progress.**

➤ Book Chapter:

1. Prepared and Co-author of **chapter 37**: “Failure of Lumbar Spine Instrumentation” Arthritis and Arthroplasty: The Spine: Expert Consult - Online, Print and DVD by Francis H. Shen MD

**Ahmed S. Mohamed, MD**, Khaled M. Kebaish, MD.

*-published: The Spine. 2009. Elsevier ISBN-13: 978-1-4160-5643-0*

2. Prepared and Co-author of **Anatomy of the spine**: "The Spine" edited by Drs. Alexander Vaccaro, Brian Su, Kazuhiro Chiba, Marcel Dvorak, H Michael Mayer, S. Rajasekaran, Luiz Vialle, Yan Wang, and Magdy Gamal Youssef

**Ahmed S. Mohamed, MD**, Alex Ching MD.

*-In press*

➤ Presentations:

1. Prepared an essay on “Management of Chondral and Osteochondral Injuries of the Knee”.

**Ahmed S. Mohamed, MD.**, Mahmoud M. Shalaby, MD., Ahmed M. Elakad, MD.

*-Presented 2004 in fulfillment of Master's degree from Zagazig University, Egypt.*

2. Prepared thesis on “The Use of Pedicle Screw Fixation for the correction Of AIS”

**Ahmed S. Mohamed, MD.**, Mohamed M. Mossaad, MD, Youssry M. Elhawary, MD, Khaled Kebaish, MD.

*-Presented 2009 in fulfillment of Doctorate degree from Zagazig University, Egypt.*

3. Functional Outcomes and Complications following Primary Spinal Surgery for Scoliosis in Adults Age 40 Years and Older: A Prospective Study, with a Minimum 2-Year Follow-Up.

Zimmerman RM, **Mohamed AS**, Skolasky RL, Robinson MD, Kebaish KM

*-Paper presentation: Scoliosis research society (SRS), Annual Meeting, Salt Lake City, Utah, USA, 2008.*

4. Outcome and surgical strategies in the treatment of sacral fractures complicating long posterior spinal fusion.

**A. S. Mohamed, MD.**, A.F. Pull ter Gunne MD., K.M. Kebaish, MD.

*-Poster presentation: Scoliosis research society (SRS) Annual Meeting, San Antonio, Texas, USA, 2009.*

*- Oral presentation: 16th International Meeting on Advanced Spine Techniques (IMAST), Vienna, Austria, 2009.*

5. Radiographic and Clinical results of L5 and S1 Pedicle Subtraction Osteotomies (PSO) for the Correction of Spinal Sagittal Imbalance.

Hassan Alish, BS. , **A. S. Mohamed, MD.**, K.M. Kebaish, MD.

*- Poster presentation: Scoliosis research society (SRS) Annual Meeting, San Antonio, Texas, USA, 2009.*

*- Paper Presentation: NASS 24th Annual Meeting, San Francisco, California USA, 2009*



**6.** A New Low Profile Sacro-Pelvic Fixation Using S2 Alar Iliac (S2AI) Screws in Adult Deformity Fusion to the Sacrum: A prospective Study with Minimum 2-Year Follow-Up.  
K.M. Kebaish, MD., **A.S. Mohamed, MD.**, A.F. Pull ter Gunne, MD., R.M. Zimmerman, BS., P. Ko1, BS., R.L. Skolasky.

-*Poster presentation: Scoliosis research society (SRS) Annual Meeting, San Antonio, Texas, USA, 2009.*

-*Oral presentation: 16th International Meeting on Advanced Spine Techniques (IMAST) Vienna, Austria, 2009.*

- *Paper Presentation: NASS 24th Annual Meeting, San Francisco, California USA, 2009.*

**7.** Low Profile Pelvic Fixation Using the S2 Alar Iliac (S2AI) Method in the Pediatric Population: A Retrospective Study with 2-Year Minimum Follow-Up.  
Sponseller PD, Zimmerman RM, Ko PS, Pull ter Gunne AF, **Mohamed AS**, Chang TL, Kebaish KM.

-*Paper presentation: Scoliosis research society (SRS) Annual Meeting, San Antonio, Texas, USA, 2009.*

- *Paper Presentation: NASS 24th Annual Meeting, San Francisco, California USA, 2009.*

**8.** Surgical management of post traumatic Kyphosis by single stage anterior reconstruction.  
Mohamed M.Mossaad, MD, **Ahmed S. Mohamed, MD**

- Poster presentation: ISSLS annual meeting in Auckland, New Zealand. April 2010

**9.** The Effect of Prophylactic Vertebroplasty on the Incidence of Proximal Junctional Kyphosis and Proximal Junctional Failure Following Long Posterior Fusion in Adult Spinal Deformities: A Prospective Study.

Christopher Martin BS, **Ahmed S.Mohamed, MD**, Richard Skolasky ScD, Khaled Kebaish, MD.

- Podium Oral presentation: Scoliosis research society (SRS) 45th Annual Meeting & Combined Course, Kyoto, Japan, September, 2010.

**10.** Outcomes and Complications of Pedicle Subtraction Osteotomy (PSO) for the treatment of Sagittal and/or coronal imbalance in patients over age forty.

George Jada,BS, **Ahmed S.Mohamed, MD**, Richard L. Skolasky, ScD, Philip Neubauer,MD, K. Kebaish, MD.

- *Poster presentation: 17th International Meeting on Advanced Spine Techniques (IMAST), Toronto, Canada, July 2010.*

**11.** Incidence of pseudoarthrosis at the lumbosacral junction in long posterior fusion to the sacrum in adult spinal deformity: Comparison between patients with and without anterior structural support at L5- S1.

Addisu Mesfin,MD, **Ahmed S.Mohamed, MD**, Hamid Hassanzadeh,MD, Richard L. Skolasky, ScD, Khaled. Kebaish, MD.

- *Poster presentation: 17th International Meeting on Advanced Spine Techniques (IMAST), Toronto, Canada, July 2010.*

**12.** The use of all pedicle screw in 3D correction of AIS in 50 patients.

**Ahmed S.Mohamed, MD**, Mohamed M. Mossaad, MD, Youssry M. Elhawary, MD.

- *Poster presentation: 17th International Meeting on Advanced Spine Techniques (IMAST), Toronto, Canada, July 2010.*

**13.** Radiographic comparative analysis between all pedicle and hybrid fixation in AIS.

**Ahmed S. Mohamed, MD**, Youssry M. Elhawary, MD, Mohamed M. Mossaad, MD.  
*- Poster presentation: 17th International Meeting on Advanced Spine Techniques (IMAST), Toronto, Canada, July 2010.*

**14. Outcomes and Complications of Pedicle Subtraction Osteotomy for sagittal and/or coronal deformity.**

George Jada, BS, **Ahmed S. Mohamed, MD**, Richard L. Skolasky, ScD, Philip Neubauer, MD, K. Kebaish, MD.

*- Poster presentation: AAOS Annual Meeting in San Diego, CA, February. 2011*

**15. “Spinal osteotomies in management of adult spinal deformities a retrospective comparative study of different types of osteotomies as regard surgical complications”**

Mohamed M. Mossaad, MD, **Ahmed S. Mohamed, MD**

*-Poster presentation at the ISSLS Annual Meeting in Gothenburg, Sweden, June 14-18, 2011.*

**16. “A comparative study between Anterior Lumbar Interbody Fusion with and without Pedicle Screw Fixation for Isthmic Spondylolisthesis. A long term follow up study”**

Mohamed M. Mossaad, MD, **Ahmed S. Mohamed, MD**

*- Special poster presentation at the ISSLS Annual Meeting in Gothenburg, Sweden, June 14-18, 2011.*

*-E-Poster presentation at the 18th International Meeting on (IMAST), Copenhagen, Denmark, July 13-16, 2011.*

**17. Total En Bloc Spondylectomy: A North American experience.**

Addisu Mesfin, MD, Jain, Amit, **Ahmed S. Mohamed, MD**, Hamid Hassanzadeh, MD, Khaled. Kebaish, MD.

*-Poster presentation: 18th International Meeting on Advanced Spine Techniques (IMAST), Copenhagen, Denmark, July 2011.*

**18. 10 years follow-up study of smith-perterson vs PSO for correction of lumbar sagittal imbalance.**

Mohamed M. Mossaad, MD, **Ahmed S. Mohamed, MD**

*-E-poster presentation at the ISSLS Annual Meeting in Amsterdam, Holland, May 2012.*

**19. Innovative technique: Prophylactic Rib Fixation to Prevent Proximal Junctional Failure following Instrumented Posterior Fusion in Adult Spinal Deformity**

**Ahmed S. Mohamed, MD**; Erin E. Coburn, BS; Kojo K. Hamilton, MD; Jayme R. Hiratzka, M; Robert A. Hart, MD

*-E-Poster presentation at the 21<sup>st</sup> International Meeting on (IMAST), Valencia, Spain, July 16-19, 2014.*

*-Paper presentation at the 2015 AAOS Annual Meeting, in Las Vegas, Nevada, March 24-28, 2015.*

**20. Complex spinal deformity “Case presentation- Finalist” IEP Course for fellows and young surgeon, Phoenix, AR, 2014**

**21. Sagittal Misalignment “Case presentation” 13<sup>th</sup> AO spine symposium, Zagazig University, Egypt, 2016.**

22. Lenke Classification of AIS, 13<sup>th</sup> AO spine symposium, Zagazig University, Egypt, 2016

➤ Grants and Scholarships :

- \*Joint supervision scholarship program, Egyptian government, Office of scholarships & scientific missions. Amount: personal salary + direct research costs 60,000\$. Research fellowship fully sponsored by the Egyptian government for 2 year at Johns Hopkins University, Baltimore, USA
- \*Synthesis educational grant for Basic AO courses, New Jersey, USA.
- \*POSNA educational grant for orthopedics-pediatrics review course, Florida, USA
- \*AO trauma fellowship, surgery department at the Kantonsspital, Chur, Switzerland.
- \*Depuy educational grant for AAOS/2011/San Diego, CA, USA
- \*Depuy educational grant for AAOS/2012/San Francisco, CA, USA.
- \*Depuy educational grant for AAOS/2013/Chicago, IL, USA
- \*Synthesis educational grant for Advanced AO courses, Pittsburgh, PA, US

➤ Professional Societies and memberships :

- \*Member of the Egyptian medical syndicate/2000-Current.
- \*Member of the Egyptian Orthopedic Association 2001-Current.
- \*Member of the Egyptian Scoliosis Society/2006-Current.
- \*Member of the AO spine associate membership/2006-Current.
- \*Member of the AO Alumni Association/2009-Current.
- \*Member of ISASS “International society for the advancement of spine surgery” 2013-Current.
- \*Member of the American academy of orthopedic surgeon “International member AAOS” 2014-Current.
- \*Member of Scoliosis Research Society “Candidate fellow of SRS” 2014-Current.
- \*Member of the North America Spine Society “International member NASS” 2015-Current.
- \*Member of the SRS global outreach committee 2015-2016
- \*Member of the SRS award and scholarship committee 2016-2017
- \*Member of the SRS Historical committee 2017-2018

➤ Activities, Interest and Hobbies :

Includes sports and physical fitness .Always Enjoy playing basketball and swimming with my son, enjoy cooking, reading and taking up photography. Learning new skills and experiencing new adventures is a source of great joy

➤ Attended course, meeting and special training :

City/year	Course/meeting
Las Vegas USA, 2019	AAOS 2019 Annual meeting.
Los Angles USA, 2018	NASS 2018 Annual meeting
Philadelphia, USA 2017	SRS 52 <sup>h</sup> Annual Meeting and Course.

San Diego	USA,2017	AAOS 2017 Annual meeting.
Minneapolis	USA,2015	SRS 50 <sup>th</sup> Annual Meeting and Course.
Las Vegas	USA,2015	AAOS 2015 Annual meeting.
Phoenix	USA,2014	IEP Spine fellows and young surgeons' course.
Anchorage	USA,2014	SRS 49 <sup>th</sup> Annual Meeting and Course.
Boston,	USA,2014	Advanced Concepts in MIS
New Orleans	USA,2014	AAOS 2014 Annual meeting.
Las Vegas	USA,2013	IEP Spine fellows and young surgeons' course.
Pittsburgh	USA,2013	AO Advanced principles and technique of operative fracture management (II).
Chicago,	USA,2013	AAOS 2013 Annual meeting.
San Francisco	USA,2012	AAOS 2012 Annual meeting.
San Jose,	USA,2011	Medtronic MIS course.
San Diego	USA,2011	XLIF & MIS Neuvasive course.
Louisville	USA,2011	SRS 46 <sup>th</sup> Annual Meeting and Course.
San Diego	USA,2011	AAOS 2011 Annual meeting
Cairo	EGY,2009	SRS & EOA Regional meeting & spine course.
Cairo	EGY,2009	7 <sup>th</sup> Pan Arab spine meeting.
New jersey	USA,2008	AO basic principles and technique of operative fracture management (I).
Salt lake	USA,2008	SRS 43 <sup>rd</sup> Annual Meeting and Course.
Baltimore	USA,2008	AO Spine ASIF Principles and Treatment of Spinal Disorders for Fellows.
Baltimore	USA,2008	18 <sup>th</sup> Annual Baltimore limb deformity course.
Orlando	USA,2007	4 <sup>th</sup> annual POSNA/AAOS international pediatric orthopedic symposium.
Baltimore	USA,2007	Depuy spine, advanced training for spine fellows.
Baltimore	USA,2007	Basic minimally invasive spine surgery course.
Chicago	USA,2007	Advanced spine complex deformity course.
Cairo	EGY,2006	1 <sup>st</sup> AO spine seminar & workshop.
Cairo	EGY,2006	EOA intensive course XVIII.
Cairo	EGY,2005	2 <sup>nd</sup> scientific meeting of Egyptian scoliosis society.
Cairo	EGY,2005	57 <sup>th</sup> annual international congress of EOA.
Cairo	EGY,2005	AAOS/EOA orthopedic review course.
Cairo	EGY,2004	EOA intensive course XIV.
Alex	EGY,2003	EOA pediatric group meeting.