

CURRICULUM VITAE

Hamid R. Abbasi, M.D., Ph.D. FACS FAANS

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PERSONAL SUMMARY:

Pioneering and internationally known Neurosurgeon in advanced minimally invasive spinal services. Accomplished surgeon with remarkable technical skills and cutting-edge knowledge in minimally invasive spinal procedures including the revolutionary OLLIF (Oblique Lateral Lumbar Interbody Fusion) procedure. First of only 30 Surgeons in the United States performing the OLLIF procedure to publish a clinical study on OLLIF outcomes which is also published in the National Institute of Health Index. Develops advancements in MIS approaches for improved access involving both the lumbar and thoracic regions of the spine. Trained for over 23 years at some of the world's most prestigious medical institutions, including Stanford University, Dartmouth College and the University of Texas, MD Anderson. Focused on educating and training surgeons in the advancements of MIS Spine surgery, for increased patient accessibility to a higher level of care.

AREAS OF EXPERTISE:

- ◆ Neurosurgery, with focus on minimally invasive spinal procedures
- ◆ Utilization of state-of-the art technology
- ◆ Publisher and Pioneering surgeon of OLLIF procedure
- ◆ International presenter and trainer
- ◆ Leader in experience & knowledge performing the highest number of reported OLLIF procedures to date.

PERSONAL ACCOMPLISHMENTS:

- ◆ 3500 (+) Surgeries performed
- ◆ 1200 (+) OLLIF Surgeries performed
- ◆ 1st of 30 surgeons performing the OLLIF to publish a clinical study on OLLIF outcomes also published in the National Institute of Health Index.
- ◆ International speaker and educator in MIS spine procedures including: OLLIF, MIS-DTIF, MIS-DLIF, and MIS SI Joint fusions.

PROFESSIONAL:

- ◆ Experienced public speaker
- ◆ Accomplished Neurosurgeon
- ◆ Visionary
- ◆ Trained for over 23 years at some of the world's most prestigious medical institutions, including Stanford University, Dartmouth College and the University of Texas, MD Anderson.

CREDENTIALS:

Board Certified with the American Board of Neurological Surgery November 23, 2011.

LICENSURE:

Licensed in California, Arizona, Florida, Texas, South Dakota, North Dakota, and Minnesota

PROFESSIONAL WORK EXPERIENCE:

- ◆ **Midwest Brain & Spine Center/Central MN Spine/Tristate Brain & Spine Institute/Inspired Spine-Independent Practice Neurosurgeon**
03/2012-Present
 - ◆ **Avera Neurosurgery Attending**
01/2009 – 03/2012
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- ◆ **University of Texas Medical Branch- Galveston (UTMB) Attending**
7/2008- 10/2008
 - ◆ **PGY1: Dartmouth-Hitchcock-Medical-Center-Department of Surgery**
2001-2002
 - ◆ **Research Associate: Stanford Medical School, Department of Neurosurgery**
1999-2001
 - ◆ **Residency: Neurosurgery Department Rheinisch-Westfälische technische Hochschule, Technical University (RWTH) Aachen**
1999
 - ◆ **Residency; Neurosurgery Clinic-Mannheim of the University Heidelberg**
1996-1998
 - ◆ **Medical School Graduation- University of Heidelberg**
11/1996
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ACADEMIC QUALIFICATIONS

MEDICAL SCHOOL

- ◆ Medical School of Isfahan 1986-1987
- ◆ Language School for German language -1987-1989
- ◆ College of University Heidelberg-Pre Med -March, 1989
- ◆ University of Heidelberg Medical School -September, 1989 – November, 1996
- ◆ PhD Program, Computer Science -December, 1993 – May, 1998
- ◆ Department for Information-and Quality-Protection of the Foundation Orthopedic University-Clinic Heidelberg 12/1993-5/1998

U.S. MEDICAL EXAMS

- ◆ USMLE (US Medical Licensee Examination) Part I -10/1998
- ◆ USMLE (US Medical Licensee Examination) Part II -3/1999
- ◆ Clinical Skill Assessment -10/1999
- ◆ ECFMG Certification validated indefinitely -3/1999
- ◆ USMLE III -7/2004

PRE-DOCTORAL CLINICAL TRAINING

- ◆ Intensive care unit of the Neurosurgery Clinic, University of Heidelberg -7-8/1993
- ◆ St. Vincentius Hospital Heidelberg -1990-1993
- ◆ Neurosurgical Intensive care unit Heidelberg -1990-1996

POST-DOCTORAL POSITION

- ◆ Tristate Brain & Spine Institute Neurosurgeon -03/2012-Present
- ◆ Avera Neurosurgery Attending
- ◆ Sanford Medical School Sioux Falls– Clinical Instructor -01/2009 – 03/2012
- ◆ University of Texas Medical Branch (UTMB) Neurosurgery Attending – Instructor -07/2007-10/2008
- ◆ University of Texas Medical Branch (UTMB)-Chief Resident -07/2007-06/2008
- ◆ Methodist Hospital Houston-Cornel Univ. Functional and Complex Spine (Dr. Grossman/Dr. Simpson) 6 Months -01/2007-06/2007
- ◆ UT MD Anderson Cancer Center, Tumor and Pituitary (Dr. Sawaya/Dr. McCutcheon) One Year -1/2006-12/2006
- ◆ UT Herman Hospital, Vascular (Dr. Volmer) -10/2005-12/2005
- ◆ UT Herman Hospital, Pediatric (Dr. Fletcher) -07/2005-09/2005
- ◆ University of Texas Medical Branch–Neurosurgery Junior Residency -07/2002-06/2005
- ◆ PGY1: Dartmouth-Hitchcock-Medical-Center-Department of Surgery -2001-2002

- ◆ Research Associate: Stanford Medical School, Department of Neurosurgery -1999-2001
- ◆ Residency: Neurosurgery Department Rheinisch-Westfälische technische Hochschule, Technical University (RWTH) Aachen 1999
- ◆ Residency; Neurosurgery Clinic-Mannheim of the University Heidelberg -1996-1998

DISSERTATION

Virtual Reality in the medicine: trends and development of orthopedic hip models
1993-98 at department for Information Technology of the Foundation Orthopedic University-Clinic Heidelberg

RESEARCH ACTIVITIES

- ◆ Abbasi H, Abbasi A. (January 14, 2017) Minimally Invasive Direct Lateral Interbody Fusion (MIS-DLIF): Proof of Concept and Perioperative Results. *Cureus* 9(1): e979. doi:10.7759/cureus.979
 - ◆ Abbasi H, Abbasi A. (July 18, 2016) Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study. *Cureus* 8(7): e699. doi:10.7759/cureus.699
 - ◆ Abbasi, Hamid, and Ali Abbasi. "Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study." Ed. Alexander Muacevic and John R Adler. *Cureus* 7.10 (2015): e351. *PMC*. Web. 8 Jan. 2016.
 - ◆ Abbasi, Hamid, and Christopher M Murphy. "Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency." Ed. Alexander Muacevic and John R Adler. *Cureus* 7.7 (2015): e292. *PMC*. Web. 8 Jan. 2016.
 - ◆ Minimally invasive spine surgery/OLLIF
Extensive work in minimally invasive surgery with most reported experience in OLLIF nationally and internationally.
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TEACHING & TRAINING EVENTS

- ◆ 1st Annual Inspired Spine OLLIF & MIS Technique Conference & Cadaver Lab: Held at Tristate Brain & Spine Institute Douglas County Hospital June 27th-29th 2016; National and International surgeons in attendance.
- ◆ OR observation experiences provided for 15(+) physicians.
- ◆ OLLIF & MIS Cadaver lab at Eminent Medical Center, Plano, TX March 4th , 2017
- ◆ Sacroiliac Joint Fusion Cadaver Training lab: Held at TBSI March 11th, 2017.
- ◆ Porcine lab didactic and hands on Porcine lab with OR demonstration February 9-10 2018
- ◆ Porcine lab didactic and hands on Porcine lab with OR demonstration April 16 2018
- ◆ Pain Symposium - June 30th, 2019 - Burnsville Lab
- ◆ Porcine Lab didactic and hands on Porcine lab with OR demonstration- September 19-20 2018
- ◆ Cadaver Lab with didactic and hands on Cadaver Lab with OR Demonstration – November 2-3 2018
- ◆ Cadaver Lab with didactic and hands on Cadaver Lab with OR Demonstration - March 8-9, 2019
- ◆ 1st Annual International OLLIF Conference and Workshop - July 20th, 2019 Frankfurt, Germany
- ◆ Porcine Lab didactic and hands on porcine lab and OR Demonstration- Burnsville Lab August 11, 2019
- ◆ Cadaver Lab didactic and hands on Cadaver Lab with OR demonstration- Burnsville Lab November 1-2, 2019
- ◆ Cadaver Lab didactic and Hands on with OR Observation with International Attendees Dec 1st -6th, 2019
- ◆ Viverant Physical Therapy Presentation - Viverant PT in Eagan January 23rd, 2020
- ◆ Interactive Cadaver Lab and Thoracic Anatomy - Burnsville Lab Feb 6th, 2020
- ◆ Porcine Lab didactic and hands on with OR Observation- Burnsville Lab Feb 9-10, 2020
- ◆ Novacare Physical Therapy Presentation - NovaCare Offices in Apple Valley March 4th, 2020
- ◆ Porcine Lab didactic and hands on with OR Observation - Burnsville Lab July 8th, 2020
- ◆ Big Stone Therapy Conference - Alexandria Office August 15th, 2020
- ◆ Cadaver Lab didactic and hands on with OR Observation - Burnsville Lab September 16th, 2020

SCIENTIFIC ACTIVITIES

- ◆ Teleradiology and Pathology
 - ◆ Structure of TeleDiagnostic Systems: Image-transfer system, Telehistological System
 - ◆ Fluoroscopic registration in Spinal Neurosurgery
 - ◆ Computerized Endoscopic Percutaneous Nucleotomy
 - ◆ Statistical Error Analysis of Neuronavigation Systems
 - ◆ Neuronavigation in Functional Neurosurgery (Epilepsy Focus Mapping, Parkinson STN Deep Electrode implantation)
 - ◆ Spinal Neuronavigation
 - ◆ Neurosurgical Interest and Experience: Complex Spine, Deformity, Tumor, Pituitary, MIS
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PRESENTATIONS

Abbasi H., “Oblique Lateral Lumbar Interbody Fusion” (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study” & “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.”

Abbasi H., Martin D., Kim D., Shahidi R. A Comparative Statistical Analysis for intra Operative Tracking and Guidance. Medicine Meet Virtual Reality (MMVR) Presentation, New Port Beach CA, January 2000.

Grzeszczuk R., Murphy M., Chin S., Fahrig R., **Abbasi H.**, Daniel Kim, Shahidi R. C-Arm Based System for Computer Aided Spine Surgery. Computer Aided Radiology and Surgery (CARS) San Francisco, June 30, 2000.

TANS Presentation Surgical Navigation. San Antonio, Texas, April 2008

Abbasi H., MIS Spine Surgery: Oblique Lateral Lumbar Interbody Fusion Minnesota Society of Radiologic Technologists, St Cloud, MN September 6 2014.

Abbasi H., Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study. Minnesota Nonsurgical Society Annual Meeting, St. Paul, MN September 27, 2014.

Minnesota Radiation technology Meeting 2014: “Intra operative Imaging for OLLIF”

Minnesota Neurosurgery Association 2015 “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study”

Minnesota Surgical Society -A chapter of the American College of Surgeons 2015 Fall Conference October 23-24, 2015 Duluth, MN. “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study”.

Invited: Walter Dandy Neurological Society Dubai-1ST DANDY QUADRENNIAL MEETING November 20-22, 2015 Dubai, United Arab Emirates “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study”.

Abbasi, Hamid - Congress of Neurological Surgeons 2016 Fall Conference San Diego, CA Digital Poster Presentation: “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study.”

Abbasi, Hamid – Society for Minimally Invasive Spine Surgery fall 2016 conference: Oral presentation: “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.”

Invited Guest Speaker: MISTIC 2016 Oral lecture presentation Tehran, Iran November 9-11 2016: “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.” “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study.” “Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study.”

European Neuro surgery association meeting Venice Italy October 2017 Oral Presentations “Oblique Lateral Lumbar Interbody Fusion” (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study” & “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.”

ISASS meeting Toronto Canada April 2018 Oral Presentation “Oblique Lateral Lumbar Interbody Fusion” (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study” “Minimally Invasive Scoliosis Surgery with OLLIF”

NSA Meeting Jackson Wyoming June 2018 Oral Presentation “Oblique Lateral Lumbar Interbody Fusion” (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.”

ISASS19 Conference San Diego CA April 2019. Oral Presentations Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with focus on hospital throughput efficiency & Minimally Invasive Scoliosis surgery with Oblique Lateral Lumbar Interbody Fusion: Single Surgeon Feasibility Study & The Assessment of Fusion following Sacroiliac Joint Fusion Surgery

Global Spine Conference Toronto Canada, May 2019. Oral Presentation Minimally Invasive Direct Thoracic Interbody Fusion(MIS-DTIF): Technical Notes of a Single Surgeon Study

ICORS Montreal Canada June, 2019. Oral Presentation Effect of Body Mass Index on perioperative outcomes in Minimally Invasive Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion vs. TLIF: A Multivariant Analysis.

ABSTRACT AND POSTERS

- ◆ American association of Neurological Surgery Washington DC 2015 “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study”
- ◆ Congress of Neurological Surgeons, New Orleans 2015 “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study”
- ◆ Congress of Neurological Surgeons 2016 Fall Conference San Diego, CA Digital Poster Presentation: “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study.”
- ◆ Society for Minimally Invasive Spine Surgery fall 2016 conference: Oral presentation: “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.”
- ◆ International Society for the Advancement of Spine Surgery: Oral presentation: “Oblique Lateral Lumbar Interbody Fusion (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study”. Digital Poster Presentation: “Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency.” & “Minimally Invasive Surgery – Direct Thoracic Interbody Fusion (MIS-DTIF)
- ◆ ICORS Montreal Canada June 2019. EPoster Economic Performance of Trans Kambin Posterior Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a focus on Hospital throughput efficiency & Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study
- ◆ Global Spine Conference Toronto Canada May, 2019. Eposters Minimally Invasive Scoliosis Surgery with Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion: Single Surgeon Feasibility Study & Economic Performance of Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a focus on hospital throughput efficiency.
- ◆ International OLLIF Conference & Workshop Frankfurt, Germany July, 2019.
- ◆ American Association of Neurological Surgeons- Online Conference- April 2020 Eposter Minimally Invasive Direct Lateral Interbody Fusion (MIS-DLIF): Proof of Concept and Perioperative Results
- ◆ American Association of Neurological Surgeons- Online Conference- April 2020 Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study.

- ◆ American Association of Neurological Surgeons- Online Conference- April 2020 Eposter Clinical and Radiological Outcomes of Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion
- ◆ American Association of Neurological Surgeons- Online Conference- April 2020 Eposter Effect of Body Mass Index on Perioperative Outcomes in Minimally Invasive Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion versus Open Fusions: A Multivariant Analysis
- ◆ American Association of Neurological Surgeons- Online Conference- April 2020 Eposter Economic Performance of Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency
- ◆ American Association of Neurological Surgeons- Online Conference- April 2020 Eposter Minimally Invasive Scoliosis Surgery with Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion: Single Surgeon Feasibility Study

- ◆ European Association of Neurological Societies Beyond Borders: Virtual Conference October 2020 Eposter Effect of Body Mass Index on Perioperative Outcomes in Minimally Invasive Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion versus Open Fusions: A Multivariant Analysis
- ◆ European Association of Neurological Societies Beyond Borders: Virtual Conference October 2020 Eposter Clinical and Radiological Outcomes of Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion
- ◆ European Association of Neurological Societies Beyond Borders: Virtual Conference October 2020 Eposter Minimally Invasive Direct Lateral Interbody Fusion (MIS-DLIF): Proof of Concept and Perioperative Results
- ◆ European Association of Neurological Societies Beyond Borders: Virtual Conference October 2020 Eposter Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study
- ◆ European Association of Neurological Societies Beyond Borders: Virtual Conference October 2020 Eposter Minimally Invasive Scoliosis Surgery with Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion: Single Surgeon Feasibility Study
- ◆ European Association of Neurological Societies Beyond Borders: Virtual Conference October 2020 Eposter Economic Performance of Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency
- ◆ International Society for the Advancement of Spine Surgery: Conference- San Juan, Puerto Rico. Poster Presentation. Clinical and Radiological Outcomes of Trans-Kambin Posterior Oblique Lateral Lumbar Interbody Fusion

PUBLICATIONS

ARTICLES:

1. Hinkenjann A, Riedel, Krämer K.-L, Völter S., Abbasi. H. Einsatzbereiche für Virtual Reality in der Medizin am Beispiel von Umstellungsoperationen “Strukturwandel der Informationsverarbeitung im Unternehmen Krankenhaus, Strukturwandel der Informationsverarbeitung im Unternehmen Krankenhaus, Krämer- Cotta ungjohann Verlagsgesellschaft, Strukturwandel der Informationsverarbeitung im Unternehmen Krankenhaus Vol.: Jahr:1994 Page:1 (German language).
2. **Abbasi H.R.**, Weigel R., Sommer C., Schmiedek P., Kiessling M. Telepathology in the neurosurgery. Stud Health Technol Inform 62:1-7, 1999.
3. Grzeszczuk R., Chin S., Fahrig R., **Abbasi H.**, Holz H., Kim D., Adler J., Shahidi R. A Flourosopic X-Ray Registration Process for Three-Dimensional Surgical Navigation. Lecture Notes in Computer Science (Medical Imaging Computing and Computer Assisted Intervention [MICCAI]) 1935:551-556, 2000.
4. **Abbasi H.**, Hariri S., Martin D., Kim, Adler J., Steinberg G., Shahidi R. A Comparative Statistical Error Analysis of Neuronavigation Systems in a Clinical Setting. Lecture Notes in Computer Science (Medical Imaging Computing and Computer Assisted Intervention [MICCAI]) 1935:144-153, 2000.
5. **Abbasi H.R.**, Hariri S., Martin D., Shahidi R. A Comparative Statistical Analysis of Neuronavigation Systems in a Clinical Setting. Studies in Health Technology and Informatics (Medicine Meets Virtual Reality MMVR 2001) 81:11-17, 2001.
6. **Abbasi H.R.**, Grzeszczuk R., Chin S., Fahrig R., Holz H., Hariri S., Kim D., Adler A., Shahidi R. Clinical Fluoroscopic Fiducial-Based Registration of the Vertebral Body in Spinal Neuronavigation. Studies in Health Technology and Informatics (Medicine Meets Virtual Reality MMVR 2001) 81:1-7, 2001.
7. **Abbasi H.R.**, Hariri S., Martin D., Risinger M., Heit G. Neuronavigational Epilepsy Focus Mapping. Studies in Health Technology and Informatics (Medicine Meets Virtual Reality MMVR 2001) 81:8-10, 2001.
8. Hariri S., **Abbasi H.R.**, Chin S., Steinberg G., Shahidi R. Quantification of the Gravity-Dependent Change in the C-arm Image Center for Image Compensation in Fluoroscopic Spinal Neuronavigation. Studies in Health Technology and Informatics (Medicine Meets Virtual Reality MMVR 2001) 81:177-179, 2001.

9. **Abbasi H.**, Hariri S., Lee J., Hill B., Heit G. Evaluation of Accuracy in Frame-Based versus Fiducial-Based Registration for Stereotaxy in Parkinson's Deep Electrode Implantation. Visualization, Display, and Image Guided Procedures, Proceeding of SPIE 4319:502-506, 2001.
10. **Abbasi H.**, Hariri S., Kim D., Shahidi R., Steinberg G. Visualization, Display, and Image Guided Procedures, Proceeding of SPIE 4319:189-193, 2001.
11. **Abbasi H.**, Grzeszczuk R., Chin S., Holz H., Hariri S., Badr R., Kim D., Adler S., Shahidi R. Development of Fluoroscopic Registration in Spinal Neuronavigation. Visualization, Display, and Image Guided Procedures, Proceeding of SPIE 4319:380-385, 2001.
12. **Abbasi H.**, Chin S., Kim D., Steinberg G., Shahidi R. Computerized lateral endoscopic approach to spinal pathologies. Elsevier International Conference Series 1230:240-247, 2001.
13. **Abbasi H.**, Grzeszczuk R., Chin S., Holz H., Badr R., Kim D., Adler J., Shahidi R. Development of Fluoroscopic Registration in Spinal Neuronavigation. Elsevier International Conference Series 1230:1235-1238, 2001.
14. **Holz H.**, Russakoff D., **Abbasi H.R.**, Kim D., Steinberg G., Shahidi R. Expected Versus Observed Error in a Computer-Aided Navigation System for Spine Surgery. Elsevier International Conference Series 1230:112-116, 2001.
15. **Abbasi**, Hamid, and Ali Abbasi. "Oblique Lateral Lumbar Interbody Fusion" (OLLIF): Technical Notes and Early Results of a Single Surgeon Comparative Study. Ed. Alexander Muacevic and John R Adler. **Cureus** 7.10 (2015): e351. **PMC**. Web. 8 Jan. 2016.
16. Abbasi, Hamid, and Christopher M Murphy. "Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency." Ed. Alexander Muacevic and John R Adler. **Cureus** 7.7 (2015): e292. **PMC**. Web. 8 Jan. 2016.
17. Abbasi H, Abbasi A (July 18, 2016) Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study. **Cureus** 8(7): e699. doi:10.7759/cureus.699
18. Abbasi H, Abbasi A (January 14, 2017) Minimally Invasive Direct Lateral Interbody Fusion (MIS-DLIF): Proof of Concept and Perioperative Results. **Cureus** 9(1): e979. doi:10.7759/cureus.979
19. Minimally Invasive Scoliosis Surgery with Oblique Lateral Lumbar Fusion. Single Surgeon Study, June, 2017
20. Effect of Body Mass Index on Perioperative Outcomes in Minimally Invasive Oblique Lateral Lumbar Interbody Fusion versus Open Fusions: A Multivariant Analysis. May 2018
21. Clinical and Radiological Outcomes of Oblique Lateral Lumbar Interbody Fusion - October 2018

BOOK

Abbasi H. Virtual Reality in der Medizin I, Stand, Trends, Visionen. Stefan Völter, GeSi Publications, ISBN 3-9804428-0-2. (German language)

DISSERTATION

Published in "CD-ROM Orthopädie" in years 1996-1997-1998 Chapman & Hall (ISBN: 3-8261-0097-2 and 3-8261-0133-2) (CD-ROM (German language))

ABSTRACTS:

1. Abbasi H.R., Weigel R. Schmiedek P. Low Cost Teleradiology in the Neurosurgery. Neurosurgical Department of University of Heidelberg. Medicine Meet Virtual Reality Congress Abstracts, J.D. Westwood, et al. (Eds.), IOS Press 1999 Congress in San Francisco January 1999 (poster) Yeh C., Sadeghi M., Abbasi H., Shahidi R. Error Analysis in an Optical Tracking System for Neurosurgical navigation. *Stud Health Technol Inform (Medicine Meets Virtual Reality MMVR)* 62: 1-7, 1999.
2. Abbasi H., Martin D., Adler J., Steinberg G., Shahidi R. A Comparative Statistical Accuracy Analysis of the Neuronavigation Systems. Elsevier International Conference Series, 1214:985, 2000 (poster).
3. Wilkinson E.P., Abbasi H.R., Martin D.P., Shahidi R. Clinical Experience with Commercially Available Neurosurgical Navigation System at Stanford. Elsevier International Conference Series, 1214:971, 2000 (poster).
4. Abbasi H., Grzeszczuk R., Chin S., Kim D., Adler J., Shahidi R. A Fluoroscopic X-Ray Registration process for Three-dimensional Surgical navigation. *Image Guided Laboratory, Stanford University. Biomedical Computation at Stanford Vol 2000 Page 24.*
5. Abbasi H., Hariri S., Martin D., Kim, D., Shahidi R., Adler J., Steinberg G., *Image Guided Laboratory, Stanford University. A Comparative Statistical Analysis of Neuronavigation Systems in a Clinical Setting. Biomedical Computation at Stanford Vol 2000 Page 59.*

6. Abbasi H.R., Hariri S., Martin D., Risinger M., Heit G. Neuronavigation Epilepsy Focus mapping. Biomedical Computation at Stanford Vol 2000 Page 60.
7. Abbasi H., Hariri S., Chin S., Grzeszczuk R., Kim D., Steinberg G., Shahidi R. Clinical Accuracy Testing of Fluoroscopic Spine Registration in Spinal Neuronavigation. AANS, April 2001 (poster).
8. Abbasi H., Hariri S., Kim D., Martin D., Shahidi R., Steinberg G. Computerized Lateral Endoscopic Approach to Intraspinal Pathologies. AANS, April 2001 (poster).
9. Ali B. Abbasi, MSci, MPhil¹, Vali Orandi MD², Kamran Khaghany MD², Hamid R. Abbasi, MD, PhD; Clinical and Radiological Outcomes of Oblique Lateral Lumbar Interbody Fusion ¹Pritzker School of Medicine, The University of Chicago, IL, USA. ²Lake Region Healthcare, Cascade, MN, USA ³Tristate Brain And Spine Institute, Alexandria, MN, USA
10. Hamid R. Abbasi, Ali B. Abbasi Economic Performance of Oblique Lateral Lumbar Interbody Fusion (OLLIF) with a Focus on Hospital Throughput Efficiency Tristate Brain And Spine Institute, Alexandria, MN, USA
11. Ali B. Abbasi MSci MPhil Hamid R. Abbasi MD PhD FAANS FACS Minimally Invasive Direct Thoracic Interbody Fusion (MIS-DTIF): Technical Notes of a Single Surgeon Study Tristate Brain And Spine Institute, Alexandria, MN, USA
12. Hamid R. Abbasi, Ali B. Abbasi Minimally Invasive Direct Lateral Interbody Fusion (MIS-DLIF): Proof of Concept and Perioperative Results Tristate Brain And Spine Institute, Alexandria, MN, USA
13. Hamid Abbasi,¹ Lynn Miller,² Ali Abbasi, ³ Vali Orandi,⁴ and Kamran Khaghany⁵ Minimally Invasive Scoliosis Surgery with Oblique Lateral Lumbar Interbody Fusion: Single Surgeon Feasibility Study¹ Tristate Brain and Spine Institute² Minnesota Disc Replacement and Spine Restoration Center³ Pritzker School of Medicine, The University of Chicago Medicine⁴ Vascular and Interventional Radiology, Lake Region Healthcare⁵ Radiology, Lakes Regional Healthcare
14. Hamid R. Abbasi, Ali B. Abbasi Effect of Body Mass Index on Perioperative Outcomes in Minimally Invasive Oblique Lateral Lumbar Interbody Fusion versus Open Fusions: A Multivariant Analysis Tristate Brain And Spine Institute, Alexandria, MN, USA
15. Hamid R. Abbasi, Ali B. Abbasi Clinical and Radiological Outcomes of Oblique Lateral Lumbar Interbody Fusion (OLLIF) Tristate Brain And Spine Institute, Alexandria, MN, USA

MEDIA

- ◆ <http://www.crookstontimes.com/article/20150605/NEWS/150609678>
- ◆ <http://www.echopress.com/content/alexandria-likely-medical-destination-back-pain-relief>
- ◆ <http://www.echopress.com/news/4074033-back-pain-breakthroughs#.V4kNNGkvyMc.facebook>
- ◆ <http://www.beckersspine.com/mis/item/34492-inspired-spine-s-ollif-study-yields-promising-results-7-highlights.html>

- ◆ **Page 26, Minnesota Healthcare News**

http://issuu.com/mppub/docs/mn_healthcare_news_1215/26

- ◆ **Page 32, Minnesota Physician's magazine**

https://issuu.com/mppub/docs/mn_physician_jan_2016/32

- ◆ **MN Physician Magazine July 2016 MN Health Care Roundtable**

https://issuu.com/mppub/docs/07_mn_physician_july_2016/20

- ◆ <http://www.prweb.com/releases/2016/1/prweb13152326.htm>
- ◆ <http://www.prweb.com/releases/2016/1/prweb13152326.htm>
- ◆ <http://www.steamfeed.com/tbsi-and-dr-h-r-abbasi-bring-minimally-invasive-spine-treatment-options-to-minnesota/>