



AAMISMS 19th Course for
New Innovations and Advances in Endoscopic
Minimally Invasive Spine Surgery
February 20th – 22nd, 2007



At

CALIFORNIA SPINE INSTITUTE

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Course Director: John C. Chiu, M.D., FRCS, D.Sc, Director Neurospine Surgery

PROGRAM

Tuesday February 20th

8:00 – 10:00 a.m.	Vendor Registration, Breakfast & Set up	Reception 2 nd Floor
8:30 – 9:00 a.m.	Continental breakfast & MD Registration Registration Handout Materials and Agenda	Reception & Lounge 2 nd Floor
9:00 - 9:15 a.m.	Welcome Speech - CSI practices of MISS – John Chiu Presentations on surgical cases for the Day - R. Sison SURGICAL PROCEDURES - LIVE SURGERY	Conference Room (2 nd Floor) CMISC (2 nd Floor)
9:15 – 10:15 a.m.	Surgical Procedure I – Provocative Lumbar Discogram & Endoscopic Lumbar Microdiscectomy, Laser Thermodiskoplasty	OR1 (2 nd Floor)
10:15 – 10:30 a.m.	Coffee break Case discussion, Q&A & Visit with vendors/exhibits	Lounge CMISC (2 nd Floor)
10:30 – 11:30 a.m.	Surgical Procedure II - Provocative Lumbar Discogram & Endoscopic Lumbar Microdiscectomy, Laser Thermodiskoplasty	OR1 (2 nd Floor)
11:30 – 12:30 p.m.	Surgical Procedure III - Interspinous Process Decompression System (X-STOP) for Treatment of Lumbar Spinal Stenosis	OR1 (2 nd Floor)
12:30 – 1:30 p.m.	Luncheon/Vendors Case Discussion, Q&A & Visit with vendors/exhibits	Lounge, Terrace - Imperial Ming Horse
1:30 – 2:00 p.m.	The Decade of Evolving Minimally Invasive Spinal Surgery (MISS) and New Technological Innovations – John Chiu, M.D.	Conference Room
2:00 – 2:30 p.m.	Clinical Pathophysiology of the Disc and Discogenic Pain – Prof. Charles Ray, M.D.	Conference Room
2:30 - 3:00 p.m.	LUMBAR SPINE A. Surgical Anatomical Concept; Intravertebral neuroforamen, content and pathoanatomy B. Posterolateral Endoscopic Lumbar Discectomy History Indications Contra-indication MISS Instruments and preparation Anesthesia Intra operative neurophysiological monitoring	Conference Room

Patient positioning
 Localization
 Surgical technique
 Postoperative care
 Outcome
 Potential Complication and avoidance
 Discussion: Advantages/disadvantages

- C. Endoscopic lumbar foraminoplasty
- D. Paraspinal endoscopic laminectomy discectomy
- E. Endoscopic decompression of spinal stenosis
- F. Transpinal L5-S1 Endoscopic technique
- G. Three case presentations

Q & A

3:00 – 3:15 p.m.	SMART Endolumbar System for Microdecompression of Degenerative Disc Disease – John C. Chiu, M.D.	Conference Room
3:15 – 3:30 p.m.	Coffee break Q&A & Visit with vendors/exhibits	Lounge CMISC (2 nd Floor)
3:30 – 4:45 p.m.	Hands-on Endoscopic MIST Demo I: <ol style="list-style-type: none"> 1. Introduction to MIST & Endoscopic Techniques (Various Systems / Vendors, KSEA, R. Wolf MI, ASTLTD) 2. Endoscopic Assisted Spine Surgical Systems (KSEA) 3. Tissue Modulation Technological Systems (Trimedyn & Ellman) 4. Intraspinal process decompression with implant (X-STOP) 5. 3 D Spinal Trainer 6. RF Generator for Image Guided Spinal Pain Intervention (Codman) – Charles Ray, M.D. 7. Publications: Textbooks on Endoscopic MISS / Technology – New Text Books: The Practice of MISS technique (Savitz, Chiu, Rauschnig, And Yeung), Arthroscopic & Endoscopic Spine Surgery (Kambin). 	Surgical Lab CMISC (2 nd Floor)
4:45 - 5:30 p.m.	Digital and Physical Tour of CSI – Elizabeth Gould, Howard Hsu, Maj-Lis A., Dukki K., Kacy B., John Chiu MD.	3D Imaging, Surgical lab. Rehab Center, etc.
5:30 – 7:00 p.m.	Buffet Dinner	Lounge, Terrace - Imperial Ming Horse
7:00 – 7:45 p.m.	Spine Care Controversy, Forum I – All Attendees; Treatment for Back Pain, Conservative Care, MIST, Traditional Spinal Surgery, Fusion & Disc replacement. Anterior Endoscopic Release with Posterior Instrumentation for correction of Thoraco-Lumbar Scoliosis - Prof. Dr. Mohamed Ahmed Maziad (MD Ortho, FRCS Spine) Spine Surgeons Prospective of Image Guided Spinal Pain Intervention – John C. Chiu, M.D.	Conference Room

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PROGRAM

Wednesday February 21st

8:30 – 9:00 a.m.	Continental Breakfast – Registration, Agenda - visit with Vendors	Reception & Lounge 2 nd Floor
9:00 – 9:10 a.m.	Opening remarks for the day – J. Chiu M.D.	Conference Room
9:10 – 9:30 a.m.	Endoscopic surgical anatomy & Patho anatomy, Anatomy of Neuroforamen - J. Chiu, MD	Conference Room
9:30 – 9:50 a.m.	Diagnostic Imaging and Weight Bearing Simulation MRI/CT Scan - P. Ahlstrom , J. Chiu, MD	Conference Room
9:50 – 10:10 a.m.	Lateral Spinal Foraminal Stenosis , Diagnosis & Surgical Treatments – Prof. Charles Ray, MD	Conference Room
10:10 – 10:30 a.m.	“Interspinous Process Decompression System / Implant for Treatment of Lumbar Spinal Stenosis” – John C. Chiu Q & A	Conference Room
10:30 – 10:45 a.m.	Coffee break Q&A & Visit with vendors/exhibits	Lounge CMISC (2 nd Floor)
10:45 – 11:00 a.m.	Advanced Imaging for MISS - Digital OR Set-up – OR of the Future (OR1) – Jay Hauser, John C. Chiu, MD	Conference Room
11:00 – 11:30 a.m.	CERVICAL SPINE Evolving Endoscopic Anterior Cervical Discectomy & Foraminotomy History Surgical anatomy Indications Contra-indication Instruments and preparation Anesthesia Patient positioning Localization Surgical technique Postoperative care Outcome Potential Complication and avoidance Discussion: Advantages/disadvantages	Conference Room

Q&A

11:30 – 11:45 p.m.	Total intervertebral Disc prosthesis in Treatment of degenerative Lumbar Disc with 30 months follow up. Prof. Dr. Mohamed Ahmed Maziad (MD Ortho, FRCS Spine)	Conference Room
11:45 – 12:00 p.m.	Nursing, MISS instruments/equipment and Facility Consideration in MIST – M. Aasa, RN, CNOR	Conference Room
12:00 – 1:00 p.m.	Luncheon/Vendors Q&A & Visit with vendors/exhibits	Lounge, Terrace - Imperial Ming Horse
1:00 – 1:15 p.m.	Thermal Tissue Modulation Technology – Holmium Laser – B. Kenney	Conference Room
1:15 – 2:05 p.m.	Laser certification course - Tissue Modulation Technology with Hands –on demo	Surgical Lab CMISC (2 nd Floor)ISC
2:05 - 2:50 p.m.	Intervertebral Body Stabilization and Vertebral Augmentation with a Polyethylene Mesh (OptiMesh), and Bone Graft – Kyphosis and Vertebral Augmentation – Matt Garner, J. Chiu, MD History Patho anatomy of kyphosis Indications Contra-indication Instruments and preparation Anesthesia Patient positioning and Localization Surgical technique Postoperative care Outcome Potential Complication and avoidance Discussion: Advantages/disadvantages	Conference Room
	Q&A	
2:50 – 3:05 p.m.	Coffee break Q&A & Visit with vendors/exhibits	Lounge CMISC (2 nd Floor)
3:00 – 3:15 p.m.	Spine Surgeons Prospective of Image Guided Spinal Pain Intervention – John C. Chiu, M.D.	Conference Room
3:15 - 3:30 p.m.	Percutaneous Radiofrequency Lumbar Facet Denervation – Prof. Charles Ray, MD	Conference Room
3:00 – 5:00 p.m.	Hands-on Endoscopic Spine Surgery Demo II: <ol style="list-style-type: none">1. Introduction to MIST & Endoscopic Techniques (Various Systems / Vendors)2. Endoscopic Spine Surgical Systems3. Tissue Modulation Technological Systems4. Intraspinal process decompression with implant (X-STOP)5. Spinal Vertebral Augmentation System – (E.g. Optimesh Etc.)6. Simulated Weightbearing MRI/CT – Dynawell7. RF Generator for Image Guided Spinal Pain	Surgical Laboratory CMISC (2 nd Floor) Imaging (1st Floor)

Intervention (Codman) – Charles Ray, M.D.

- 8. 3 D Spinal Trainer**
- 9. Simulated upright & weight bearing MRI Demo**
- 10. Publications: Textbooks on Endoscopic MISS / Technology – New Text Books: The Practice of MISS technique (Savitz, Chiu, Rauschnig, And Yeung), Arthroscopic & Endoscopic Spine Surgery (Kambin).**

5:00 – 5:30 p.m.

Photo Session

CSI

5:30 – 6:00 p.m.

MISS Target Practice

CSI Recreation Facility

6:00 – 7:30 p.m.

Buffet Dinner

Lounge (2nd Floor)

**Spine Care Controversy, Forum II – All Attendees;
Treatment for Back Pain, Conservative Care, MIST,
Traditional Spinal Surgery, Fusion & Disc replacement.
Potential Complication of Endoscopic Spinal Surgery and
Avoidance I – J. Chiu, MD
MISS Around the World – J. Chiu, MD**

Conference Room

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Thursday February 22nd

8:30 – 9:00 a.m.	Continental Breakfast – Registration, Agenda & visit with vendors	Reception & Lounge 2 nd Floor
9:00 – 9:10 a.m.	Opening remarks for the day – J. Chiu M.D.	Conference Room (2 nd Floor)
9:00 – 10:30 a.m.	Presentations on surgical cases for the Day - R. Sison	OR1 (2 nd Floor)
9:00 – 10:30 a.m.	Surgical Procedure I – Provocative Discogram & Endoscopic Anterior Cervical Microdiscectomy and laser thermodiskoplasty	OR1 (2 nd Floor)
10:30 – 11:00 a.m.	Coffee break	Lounge (2 nd Floor)
10:30 – 11:00 a.m.	Case Discussion, Q&A & Visit with vendors/exhibits	Conference Room
11:00 – 12:00 a.m.	Surgical Procedure II – Provocative Discogram & Transforaminal Endoscopic Lumbar Microdiscectomy, laser thermodiskoplasty	OR1 (2 nd Floor)
12:00 – 1:00 p.m.	Surgical Procedure III - Biologic Vertebral Reconstruction/Augmentation with Intravertebral Mesh and Bone Graft	OR1 (2 nd Floor)
1:00 – 2:00 p.m.	Luncheon/Vendors	Lounge, Terrace - Imperial Ming Horse
1:00 – 2:00 p.m.	Case Discussion, Q&A & Visit with vendors/exhibits	Conference Room
2:00 – 2:15 p.m.	Clinical anesthesia consideration for MISS – Peter Chkoski, M.D.	Conference Room
2:15 – 2:45 p.m.	Posteriolateral Endoscopic Thoracic Microdiscectomy	Conference Room
	History	
	Surgical anatomy	
	Indications	
	Contra-indication	
	Instruments and preparation	
	Anesthesia	
	Patient positioning	
	Localization	
	Surgical technique	
	Postoperative care	
	Outcome	

Potential Complication and avoidance
Discussion: Advantages/disadvantages

Q&A

2:45 – 3:00 p.m.	Potential Complication of Endoscopic Spinal Surgery and Avoidance II – J. Chiu, MD	Conference Room
3:00 – 3:15 p.m.	Surgical Outcome and Multicenter Study – J. Chiu, MD	Conference Room
3:15 – 3:30 p.m.	Future of MISS: Surgical Robotics for Clinical MISS & Innovated Technologies - J. Chiu, MD	Conference Room
3:30 – 3:45 p.m.	Coffee break	Lounge (2 nd Floor)
	Q&A & Visit with vendors/exhibits	Conference Room
3:45 – 5:00 p.m.	Hands-on Endoscopic Spine Surgery Demo III:	Surgical Lab
	1. Introduction to MISS & Endoscopic Techniques (Various Systems / Vendors)	CMISC (2 nd Floor)
	2. Endoscopic Spine Surgical Systems	
	3. Tissue Modulation Technological Systems	
	4. Intraspinous process decompression with implant (X-STOP)	
	5. Spinal Vertebral Augmentation System – (I.e. Optimesh Etc.)	
	6. 3D Med Spinal Trainer	
	7. RF Generator for Image Guided Spinal Pain Intervention (Codman) – Charles Ray, M.D.	
	8. Publications: Textbooks on Endoscopic MISS / Technology – New Text Books: The Practice of MISS Technique (Savitz, Chiu, Rauschnig, Yeung), Arthroscopic & Endoscopic Spine Surgery (Kambin)	
5:00 – 6:00 p.m.	Table Tennis Practice	CSI Recreation Facility
6:00 – 7:30 p.m.	Farwell Dinner - Closing / Farwell Remarks– J. Chiu, MD	Lounge (2 nd Floor)

“THANK YOU FOR YOUR PARTICIPATION”

WE GRATEFULLY ACKNOWLEDGE

**KARL STORZ ENDOSCOPY OF AMERICA (KSEA)
RICHARD WOLF MEDICAL INSTRUMENT CORPORATION.
ST. FRANCIS MEDICAL TECHNOLOGIES, INC
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3-D TECHNICAL SERVICES
SURGICAL WEST
SPINEOLOGY, INC
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DYNAWELL INC
ROYAL COLLAGE OF SURGEONS**

For their support for this educational conference

**PLEASE VISIT THESE COMMERCIAL SUPPORTERS/EXHIBITS
TUESDAY THROUGH THURSDAY**

CALIFORNIA SPINE INSTITUTE

Administration:

Elizabeth Gould, **COO** 805-375-7907

Howard Hsu, **Administrator** 805-375-7985

Operations Manager:

Jenise Bell, 805-375-7903

Nursing Administration:

Maj-Lis Aasa, R.N. **Director of Nursing** – 805-375-7952

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Dawn McElhone, 805-375-7950

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Ginny Scoville 805-375-7915

JG Communications-Gus

Spanish Translator:

Dina Rojas, 805-375-7920

Chinese Translator:

Eleanor Yuan, 805-375-7925

Professional Staff:

- ◆ John C. Chiu, M.D. – Director, Neurospine Surgery
- ◆ Peter Chkoski, M.D. Anesthesia
- ◆ Tamara Rossotti, CRNA – Anesthesia
- ◆ Zin Lekht, M.D. – Neurology, Neuromuscular Disease
- ◆ Duc Nguyen, M.D. – Pulmonologist, Internal Medicine
- ◆ Evan Marlow, M.D. – Physiatrist, Rehabilitation Medicine
- ◆ Kamran Jamshidinia, M.D. – Podiatrist
- ◆ Felix Negron, M.D. – Hyperbaric Medicine, Industrial Medicine
- ◆ Nosrat Javidan, M.D. – Orthopaedic Surgery
- ◆ Hartoun Yousif, M.D. – Orthopaedic Surgery
- ◆ Steven Shaw, M.D. – Orthopaedic Surgery
- ◆ Ali Berenji, M.D. – Orthopaedic Surgery
- ◆ David Allen, M.D. - Orthopaedic Surgery
- ◆ Yoong Park, M.D. – Anesthesia/Pain Management
- ◆ S. Sahu, M.D. - Radiologist
- ◆ Romie Sison, P.A., C.O.T.

CSI Information:

- Conference Coordinator:
 - Heather Anderson 805-375-7917
- California Minimally Invasive Surgery Center: 375-7955
 - Maj-Lis, Bridget, Gregelyn, Sonya, Lacy, Rob, Drew.
- Medical Surgical Clinic Coordinators: 375-7900
 - Dawn McElhone, Edmy
- 3D Imaging/Radiology: 375-7997
 - Technologists: Duk-Ki Kratavil, Ila Reynolds, Kenny Scott,
- Imaging Coordinator:
 - Sunny Chang, Eleanor Yuan 375-7925
- Rehabilitation and Sports Medicine: 375-7980
 - Kacy Bench, Tracy, Michelle, Amir, Carrie
- Catering/Refreshment:
 - Sunny 375-7925, Jenise Bell 375-7903, Eleanor Yuan 375-7925, Heather
- Reception
 - Sunny Chang, Eleanor Yuan 375-7925, Howard Hsu 375-7985, Heather
- Conference Location: MIST Education Center
 - Staff Lounge 375-7916
 - Conference Room 375-7973
 - Digital Library 375-7972
 - CMISC
 - Surgical Lab
 - 3-D Surgical Planning Laboratory
- Digital Presentation:
 - Ginny Scoville 375-7918/Howard Hsu 375-7985