

LACMISS 2026

2nd LatinAmerican Course Minimally Invasive Spinal Surgery

- An EUCMISS® course-

Guadalajara, México, 6th-7th July 2026

MIS, Endoscopy, Navigation, Robotics, AR, VR, Simulation

International Directors

Avelino Parajón (Spain)

Jesús Lafuente (Spain)

Local Directors

Michael Dittmar (México)

Miguel Angel Andrade (México)

Faculty

Massimo Balsano (Italy)

Gerd Bordon (Spain)

Jose Manuel González (México)

Jorge de Haro (México)

Jared Muñoz (México)

José Name Guerra (Colombia)

Rodrigo Navarro-Ramírez (USA)

Alberro Ramírez (México)

Daniel Refai (USA)

Javier Quillo Olvera (México)

Juan Manuel del Toro (México)

Raúl Viera (México)



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LACMISS 2026

DAY 1- MONDAY 6th JULY- HANDS ON LAB

HOSPITAL ANGELES ANDARES



Av. Patria 1355, Puerta de Hierro, Zapopan, Jalisco, México

08.00-08.20	Introduction- the EUCMISS courses	A. Parajón & J. Lafuente
08.20- 10.00	MIS Basics- "How I do it"	M. Balsano & R. Navarro (Mods)
08.20- 08.30	Tubular MIS TLIF	R. Navarro-Ramírez
08.30- 08.40	MIS LECA	MA. Andrade
08.40- 08.50	Lateral transpsoas approach	M. Balsano
08.50- 09.00	Prepsoas interbody fusion	G. Bordon
09.00- 09.10	Transforaminal lumbar endoscopy	D. Refai
09.10- 09.20	Lumbar interlaminar endoscopy	J. Muñoz
09.20- 09.30	Cervicalposterior foraminotomy	A. Parajón
09.30- 09.40	Robotic pedicular screws	J. Lafuente
09.40- 09.50	Biportal lumbar endoscopy	J. Quillo
09.50- 10.00	Exoscopic tubular decompression	JM. González
10.00- 10.30	COFFEE BREAK	
10.30- 13.30	HANDS- ON LAB (3 h rotations)	ALL FACULTY
13.30- 14.00	LIGHT LUNCH BREAK	
14.00- 17.00	HANDS- ON LAB (3 h rotations)	ALL FACULTY
17.00- 17.20	COFFEE BREAK	
17.20- 18.20	HANDS- ON LAB (1 h rotations)	ALL FACULTY

TECHNIQUES

Lumbar tubular decompression, exoscopy, uniportal spinal endoscopy, biportal endoscopy

Tubular MIS TLIF, ALIF, transpsoas, prepsoas approach, robotics, AR, cervical foraminotomy

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DAY 2- TUESDAY 7th JULY- LECTURES

HOSPITAL ANGELES ANDARES

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09.00-10.10	ENDOSCOPY SESSION – Ralf Wagner “In memoriam”	M. A. Andrade & J. Muñoz
09.00- 09.10	Endoscopy in calcified thoracic discs	D. Refai
09.10- 09.20	Arnold Chiari with uniportal endoscopy	J. Name
09.20- 09.30	Navigation in biportal endoscopy	D. Refai
09.30- 09.40	Hybrid surgery: endoscopic decompression and percutaneous fixation	J. Name
09.40- 09.50	Endoscopic interbody fusion	J. Quillo
09.50. 10.10	Q&A- Discussion	
10.10- 12.10	CASE BASED DISCUSSIONS	J. Lafuente & M. Balsano
10.10- 11.10	Degenerative spondylolisthesis	
	Tubular decompression	R. Navarro- Ramírez
	Endoscopic decompression	J. Quillo
	Indirect decompression	M. Balsano
	MIS TLIF	A. Parajón
11.10-12.10	Adult degenerative scoliosis	
	When MISS and when open correction?	M. Dittmar
	ALIF in ADS	A. Ramírez
	Endoscopy in ADS	J. Quillo
	Lateral approaches in ADS	M. Balsano
12.10- 12.30	COFFEE BREAK	
12.30- 14.00	MISS TECHNOLOGY ON THE EDGE	M. Dittmar & J. Quillo (Mods.)
12.30- 12.40	Non fusion techniques in idiopathic scoliosis	M. Balsano
12.40- 12.50	Augmented Reality	A. Ramírez
12.50- 13.00	Implementing MISS in the military setting	R. Viera
13.10- 13.20	Latest advances in 3D spinal navigation	M. Dittmar
13.20- 14.00	Q&A, Discussion, Wrap up	