



endorsed by:  **ISRS**  
International Stereotactic  
Radiosurgery Society

 **ALAIR**  
Asociación Latino Iberoamericana de Radiocirugía

# FUNCTIONAL RADIOCIRGERY

Workshop 2025

MAY 15 AND 16, 2025, SAN SALVADOR, EL SALVADOR



[tallerderadiocirugiafuncional.com](http://tallerderadiocirugiafuncional.com)

On behalf of the **International Cancer Center of El Salvador (CIC)**, it is a pleasure to extend you a cordial invitation to participate in the **Functional Radiosurgery Workshop 2025, which will take place on May 15 and 16, 2025 at the prestigious Hilton Hotel. from San Salvador, El Salvador.**

El Salvador, with its characteristic hospitality, will welcome you with open arms.

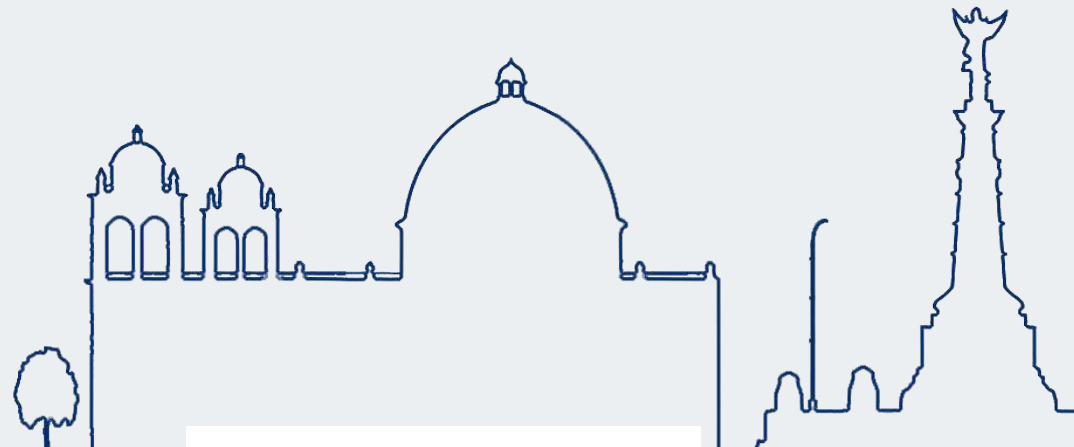
Radiosurgery, initially used to treat functional diseases, has its origins in the invention of the Gamma Knife by Lars Leksell, an advance that forever transformed neurosurgery and oncological radiation therapy. Since then, more than 60 years have passed, and our anatomical and connectomic knowledge of the brain has advanced significantly. Thanks to advanced MRI tools and cutting-edge algorithms, today we are able to precisely visualize brain structures and treat neural circuits using radiation with unprecedented accuracy. These advances occur in a context of accelerated technological development, which seeks to bring radiosurgery to all corners of the planet.

Despite the impressive advances achieved, there is still much to do for radiosurgery to consolidate itself as a standard therapeutic option in the treatment of refractory pathologies, such as psychiatric disorders, abnormal movements, epilepsy, addictions and chronic pain. Furthermore, it is essential that these minimally invasive treatments become accessible to more people around the world.

This Second Functional Radiosurgery Workshop will bring together a select group of world-class experts, with the aim of learning, sharing knowledge and exploring new avenues to continue advancing in the field of functional neurosurgery through radiosurgery.

We are sure that this event will be an unforgettable and highly beneficial experience for all participants. We give you the warmest welcome and we look forward to seeing you in May in El Salvador.

Sincerely,  
**Dr. Eduardo Lovo.**  
**Director of the intracranial radiosurgery program.**  
**International Cancer Center of El Salvador.**





**Aimed at neurosurgeons, neurologists, psychiatrists, algologists, radiotherapists, medical physicists, residents of subspecialties.**

**Date:**

May 15 and 16, 2025.

**Place:**

Hilton Hotel 89 Avenida Norte, San Salvador.

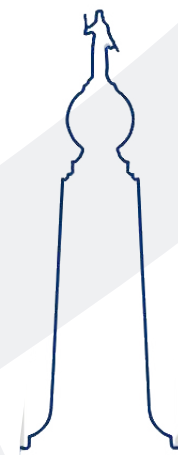
**Investment:**

Specialist doctors 350 USD

Residents and students 75 USD

**\*There will be simultaneous translation from English to Spanish and Spanish to English.**

**\*Limited capacity**





# FUNCTIONAL RADIOSURGERY

Workshop 2025

May 15 and 16, 2025. San Salvador, El Salvador

Day 1  
MAY 15, 2025



## Venue: International Cancer Center

8:00 - 10:00

Introduction to Gamma Knife radiosurgery, Vantage frame, G Frame and patient flow.

William Reyes, Eduardo Lovo. CIC

## Venue: Hotel Hilton San Salvador

8:30 - 10:00

Introduction to Elements (Brainlab), tractography, stereotaxic coordinates, autosegmentation, Gamma Knife radiosurgery, Cyberknife and LINAC.

10:00 - 10:30

Coffee Break

10:30-10:50

Functional radiosurgery with Gamma Knife (Physics).  
Ian Paddick, Physicist. Queen Square Radiosurgery Center, LDN United Kingdom.

10:50-11:10

Radiation on neuronal circuits (Radiobiology).  
Evan Thomas, Radiation Oncologist. Renaissance Institute of Precision. Oncology & Radiosurgery FL, USA.

11:10-11:30

Current knowledge on radiomodulation (Radiobiology 2).

Alejandro Blanco, Radiation Oncologist. Robotic Radiosurgery Center, SJ. Costa Rica.

11:30-11:50

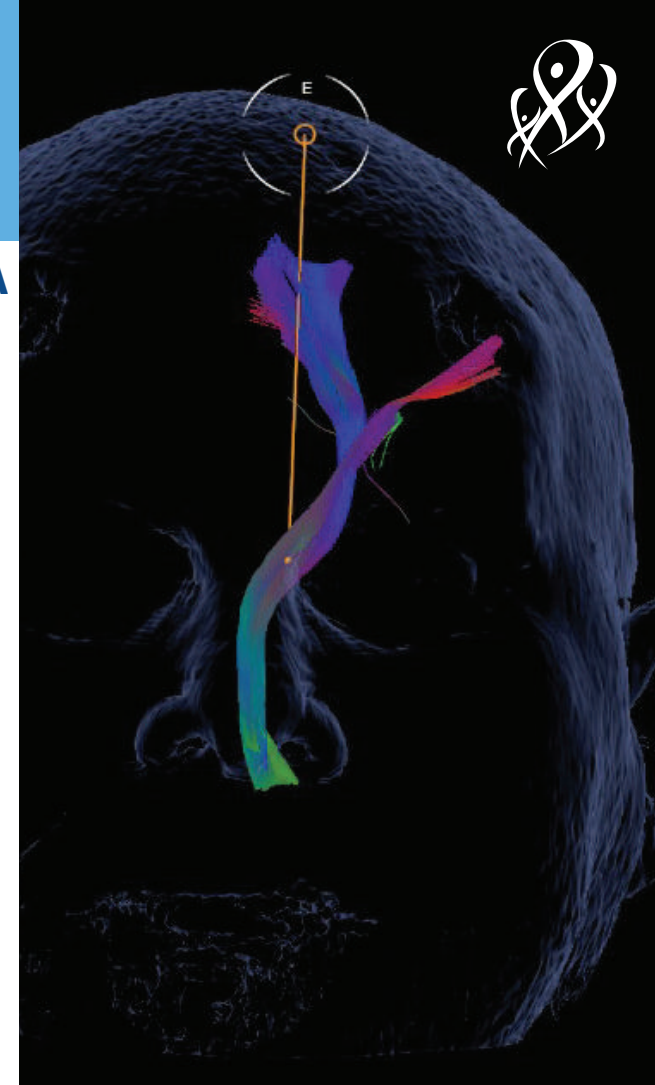
Anatomy of the trigeminal nerve from peripheral to central.

José Chang, Neurosurgery. CIC, SS, El Salvador.

11:50-12:20

Discussion.

## AGENDA



Elekta



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# FUNCTIONAL RADIOSURGERY

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May 15 and 16, 2025. San Salvador, El Salvador

Day 1  
MAY 15, 2025

## AGENDA

**12:20-13:20**

Elekta master class lunch. Fundamentals of intracranial radiosurgery in addictions.

**Dr. Riccardo Bevilacqua:** Gamma Knife features for functional radiosurgery.

**Dr. José Chang:** Anatomy of the nucleus accumbens and connections

**Dr. William Contreras:** Evidence on surgical treatment in addictions.

**Dr. Eduardo Lovo:** Targeting of nucleus accumbens with Gamma Knife.

**13:20-13:40**

Trigeminal nerve radiosurgery.

**Leo Romanelli, Neurosurgery. Renaissance Institute of Precision Oncology & Radiosurgery FL, USA.**

**13:40-14:00**

Radiosurgery to DREZ, spasticity and pain.

**Alejandro Blanco, Radiation Oncologist. Robotic Radiosurgery Center, SJ. Costa Rica.**

**14:00-14:20**

Neuroanatomical basis for pain procedures.

**Eduardo Alho, Neurosurgery. Brazil.**

**14:20-14:40**

Anatomy of the thalamus and dento-rubro-thalamic tract.

**William Omar Contreras, Neurosurgery. NEMOD International Neuromodulation Center, UNAB, B/manga, Colombia.**

**14:40-15:00**

Functional neuroanatomy and advanced imaging for the treatment of tremor.

**Eduardo Alho, Neurosurgery. Brazil.**

**15:00-15:30**

Coffee break.

**15:30-15:50**

Brainlab Elements and functional radiosurgery with LINAC.

**Daniel Venencia, Physicist. Zunino Institute, CBA, Argentina.**

**15:50-16:10**

Radiosurgery in essential tremor.

**Alessandra Gorgulho, Neurosurgeon. Director of Neurosapiens, Neurosurgeon Rede D'Or Star, SP, Brazil.**

**16:10 - 16:30**

Discussion.

**16:30-18:30**

Welcome cocktail. Palliative medicine and pain management in El Salvador.

**Dr. Mario López Saca Paliamed, SS, El Salvador.**



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# FUNCTIONAL RADIOSURGERY

Workshop 2025

May 15 and 16, 2025. San Salvador, El Salvador

Day 2  
MAY 16, 2025



## Venue: International Cancer Center

**8:00-10:00**

Introduction Gamma Knife radiosurgery, Vantage frame, G-frame and patient flow.  
William Reyes, Eduardo Lovo. CIC.

## Venue: Hotel Hilton San Salvador

**8:30- 10:00**

Introduction to Elements (Brainlab), tractography, stereotaxic coordinates, autosegmentation, Gamma Knife radiosurgery, Cyberknife and LINAC.

**10:00-10:30**

Coffee Break

**10:30-11:30**

Workshop on functional radiosurgery with Edge.

**11:30-11:50**

Neuropsychiatric evaluation of the patient with pain.  
José Trejo, Neuropsychiatrist. CIC, SS, El Salvador.

**11:50 a.m.-12:10**

Dual target strategy (nerve and thalamus) for chronic facial pain.  
Juan Carlos Diez, Neurosurgery. Gamma Knife Radiosurgery, Fundación Clínica Shaio BOG, Colombia.

## AGENDA

**12:10-12:30**

Radiosurgery of the thalamus, non-oncologic pain.  
MD. Leo Romanelli, Neurosurgery. Renaissance Institute of Precision Oncology & Radiosurgery FL, USA.

**12:30-12:50**

Radiosurgery in oncologic pain.  
Dr. Eduardo Lovo, Neurosurgery. CIC, SS, El Salvador.

**12:50-13:00**

Discussion.



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Day 2  
MAY 16, 2025

## AGENDA

**13:00-14:00**

Accuray Robotic Radiosurgery Lunch.

**14:00-14:20**

Radiosurgery of the celiac plexus.

**Kaory Barahona, Radiation Oncologist. CIC, SS, El Salvador.**

**14:20-14:40**

Evaluation and screening criteria in psychiatry OCD, severe depression and anxiety.

**José Trejo, Neuropsychiatrist. CIC, SS, El Salvador.**

**14:40 - 15:00**

Anterior capsulotomy for obsessive compulsive disorder.

**Alessandra Gorgulho, Neurosurgeon. Director of Neurosapiens, Neurosurgeon Rede D'Or Star, SP, Brazil.**

**15:00-15:30**

Coffee break.

**15:30-15:50**

Cingulotomy for anxiety and pain.

**Eduardo Lovo, Neurosurgery. CIC, SS, El Salvador.**

**15:50-16:10**

Functional radiosurgery with LINAC and dosimetric comparisons.

**Daniel Venencia, Physicist. Zunino Institute, CBA, Argentina.**

**16:10-16:30**

Functional radiosurgery in epilepsy.

**MD. Leo Romanelli, Neurosurgery. Renaissance Institute of Precision Oncology & Radiosurgery FL, USA.**

**16:30-16:50**

Functional radiosurgery with LINAC, experience at the Zunino Institute.

**Oscar Muriano, Radiation Oncologist. Zunino Institute, Córdoba - Argentina.**

**16:50**

Diplomas and closing ceremony

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