



20th Meeting of the Leksell Gamma Knife Society

June 21st, 2022 | Milan, Italy

14.00 WELCOME & STATE OF GAMMA KNIFE RADIOSURGERY

*Lena Höglund &
Catherine Gilmore-Lawless*

Section I: OPTIMIZING GAMMA KNIFE WORKFLOW

Moderators: Marc Levivier, Alberto Franzin

Optimizing Treatment Planning with Lightning: Lessons Learned (demo)

Ian Paddick

Vantage: Technical and Clinical Insights

Jean Regis

15.00 Section II: ONGOING INNOVATION IN AI & MACHINE LEARNING

Moderators: Lijun Ma, Arjun Sahgal

Setting the Stage

Caroline Chung

The World's Largest Open Access Brain Tumor Data Set: Opportunities for Discovery

Douglas Kondziolka

Radiosurgery: An AI-Empowered Medical Ecosystem

Wan-Yuo Guo

Using Automatic Segmentation & Volume Determination in Routine Gamma Knife Practice

Andrey Golanov

Using Deep Learning to Predict GKRS Outcome in Vestibular Schwannomas:
Current Status and Future Directions

Stefan Cornelissen

View from Elekta's Lab

Joakim da Silva

16.30 Section III: EMERGING INDICATIONS

Moderators: Enrico Motti, Michael Schulder

Aneurysms: Moving from Bench to Bedside

James McInerney

Gamma Knife Hypophysectomy Impact on Cancer-Related Intractable Pain

Jaromir May

IRRF Project Overview & Planned Collaborative Studies

Gene Barnett

17.05 Section IV: EVOLVING TREATMENT PARADIGMS

Moderators: Jing Li, Robert Timmerman, Bente Skeie

Comparison of Contrast Clearance Analysis and MRI to
Differentiate between Tumor Recurrence & Pseudoprogession

Dheerendra Prasad

Staged SRS versus Hypofractionation for Large Mets

- The Cleveland Clinic Paradigm
- The Tilburg Paradigm

*Lilyana Angelov
Patrick Hanssens*

Preoperative Radiosurgery in Newly Diagnosed Glioblastoma

- Preclinical Work and Perspective from the Lab
- Rationale, Trial Design and Preliminary Clinical Results

*Alfredo Quiñones-Hinojosa
Daniel Trifiletti*

Why Gamma Knife Radiosurgery is Still Needed in the Era of Immunotherapy
for Brain Metastasis

Rupesh Kotecha

18.45 COCKTAILS, CONVERSATION AND CONNECTION