



Radiotherapy Workshop

within the framework of the “Twinning agreement” between
the Karolinska Institutet (KI), Stockholm and
the National Institute of Oncology (NIO), Budapest

3-4, June 2024

Venue: National Institute of Oncology (NIO)

Ráth György u. 7-9, 1122 Budapest, Hungary

Organizing Committee from KI

Assoc. Prof. Alexander VALDMAN, *Associate Professor of Oncology, Karolinska Institute, Department of Oncology-Pathology*

Assoc. Prof. Renske ALTENA, *Associate Professor of Oncology, Karolinska Institute, Department of Oncology-Pathology*

Organizing Committee from NIO

Assoc. Prof. Zoltán TAKÁCSI-NAGY, *Deputy Director General, Head of the Center of Radiotherapy*

Prof. Tibor MAJOR, *Head of Medical Physics*



Programme

3 June, Monday

09:00 – 09:10

Welcome

Prof. Dr. Csaba Polgár, *Director General – NIO*

Assoc. Prof. Zoltán TAKÁCSI-NAGY, *Deputy Director General, Head of the Center of Radiotherapy – NIO*

Assoc. Prof. Alexander Valdman – *senior consultant, Department of Radiation Oncology, Karolinska Institute*

SBRT session

09:10 – 09:30

Introduction of Radiotherapy Center of NIO (Z. Takácsi-Nagy, RO)

09:30 – 10:00

Radiotherapy at Karolinska. General overview (A. Valdman, RO)

10:00 – 10:20

Experiences with real-time tracking with CyberKnife and ITV-based lung SBRT with linac (L. Jánváry, RO)

10:20 – 10:40

Stereotactic Partial Breast Irradiation: 4-year clinical results and cosmetic outcomes (N. Mészáros, RO)

10:40 – 11:00

Coffee break

11:00 – 11:20

CyberKnife tracking methods (Sz. Tódor, MP)

11:20 – 11:40

QA program of CyberKnife (G. Stelczer, MP)

11:40 – 12:00

Dosimetrical research activities at CyberKnife (E. Koszta, MP)

12:00 – 12:30

Spine SBRT at Karolinska (D. Alm, RO)

12:30 – 13:30

Lunch

13:30 – 14:30

Practical demonstration at Cyberknife

14:30 – 14:50

The persistence of chromosome aberrations in the lymphocytes of prostate cancer patients after four different methods of radiotherapy (Zs. Jurányi, RB)

14:50 – 15:20

Brachytherapy at Karolinska (Å. Carlsson Tedgren, MP)

15:20 – 16:00

Round table discussion (L. Jánváry, A. Valdman)

18:00 –

Dinner & Social Event – location to be specified



Programme

4 June, Tuesday

Adaptive RT session

09:00 – 09:20	Online adaptive radiotherapy on Ethos linear accelerator: clinical practice (P. Ágoston, RO)
09:20 – 09:40	Online adaptive radiotherapy in muscle invasive bladder cancer with individual CTV-PTV margin (L. Varga, RO)
09:40 – 10:00	Effect of change in tissue inhomogeneity on dose calculation during CBCT-guided online adaptive radiotherapy (D. Szegedi, MP)
10:00 – 10:30	Coffee break
10:30 – 10:50	Combined biological effects of CBCT and therapeutic X-ray dose on chromosomal aberrations of lymphocytes with special reference to adaptive radiotherapy (Á. Gáldi, MP)
10:50 – 11:10	RILA method in assigning radiosensitive cervix tumor patients and the biological dose of CT in adaptive radiotherapy (Zs. Kocsis, RB)
11:10 – 12:00	Practical demonstration at Ethos
12:00 – 12:30	Round table discussion (P. Ágoston, Á. Gáldi)
12:30 – 12:40	Closing the workshop (Cs. Polgár, RO)
12:40 – 13.40	Lunch

Abbreviations:

RO: radiation oncologist

MP: medical physicist

RB: radiobiologist