MultiSource®
HDR Afterloading System –
First Experiences in Lithuania

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MultiSource® HDR Afterloading System

To introduce the results of one-year work with brachytherapeutic system **MultiSource® HDR Afterloading System (Co-60)** at Klaipeda University Hospital.
MultiSource®
HDR Afterloading System

Cases of treatment in our department:
• Ca corporis uteri (started to work 2010 August)
• Ca cervix uteri (started to work 2010 November)
• Palliative treatment
• Ca cutis
Ca corporis uteri morbidity in Lithuania

- 532 new cases in 2008
- morbidity makes 22 cases per 100000 inhabitants

- 560 new cases in 2009
- morbidity makes 26 cases per 100000 inhabitants
Ca corporis uteri

I st 65%
II st 13%
III st 10%
IV st 4%
X st 8%
Ca cervicis uteri morbidity in Lithuania

- 570 new cases in 2008
- morbidity makes 27 cases per 100000 inhabitants

- 540 new cases in 2009
- morbidity makes 23 cases per 100000 inhabitants
Ca cervicis uteri

Ist: 64%
IIst: 12%
IIIst: 10%
IVst: 3%
Xst: 11%
Numbers of patients treated

- Total number of patients 76
  - Cervical cancer 40 (126 procedure):
    • with Fletcher and with Vaginal applicator;
  - Ca corporis uteri cancer 33 (126 procedure):
    • with Vaginal applicator of different diameter
  - Ca cutis 1
- Palliative treatment - 2:
  • Rectum cancer -1
  • Pulmonum - 1
Numbers of patients treated

Total number of patients 76

- Cervical cancer; 40
- Ca corporis uteri cancer; 33
- Palliative treatment; 2
- Rectum cancer - 1
- Pulmonum - 1
- Cervical cancer; 40
- with Fletcher and with Vaginal applicator of different diameter
- with Fletch and with Vaginal applicator
Structure

- Patient’s preparation for the procedure
- Getting views/pictures
- Planning
- Treatment
Planning

Digital pictures are taken by C-arm ARCADIS or CT
Planning
Planning

• HDR plus planning system
Planning

The plan of Cervical CA
Treatment room
Treatment room
Treatment room
Applicators
Applicators
Applicators
MultiSource® HDR Afterloading System

- The technology of treatment of cervical and uterus body cancer was mastered in a year period.
- After having mastered the method of treatment it is purposeful to expand the number of treated allocations.
Prostate CA morbidity in Lithuania

- 3248 new cases in 2008
- morbidity makes 207.3 cases per 100000 inhabitants

- 3638 new cases in 2007
- morbidity makes 231.4 cases per 100000 inhabitants
Further Plans

- According to the statistics of prostate Ca morbidity we purchased an additional set of equipment and we are planning to start prostate ca HDR.
Case presentation

- Patient
- S.A.
- 78 years old
- Diagnosis : Ca cutis facei T4NoMo
- Histology : ca basocellulare
Beginning
Planning
Treatment

- 5 fr/ 6 Gy
- SD 30 Gy
Treatment

• 5 fr / 6 Gy
Thank you 😊