



**CANTONAL HOSPITAL ZENICA
DEPARTMENT OF RADIOTHERAPY**

CLINICAL ACTIVITIES

October 2012 – February 2013

**Duraković Armin, physicist
March 2013**

In October 2012 Department of Radiotherapy started clinical activities after opening ceremony in May.

From 18th October 2012 four teams composed by Italian experts for two months gave support to the local staff in Zenica.

The main goal of these teams was to support clinical activities at new Radiotherapy Department at Cantonal Hospital Zenica and to educate the unexperienced local staff.



Since October to the end of February, Radiotherapy Department has treated 52 patients.

At the end of February there were 15 patients on treatment and about 10 new patients prepared for the treatment.

Main reasons for such reduced number of patients were:

- The high number of short palliative treatments,**
- no radical treatments of some pathologies (e.g. head&neck)**



NUMBER OF PATIENTS BY PATHOLOGIES

RADICAL TREATMENTS	
Prostate	6
Rectum	3
Breast	5
Chest wall	2
Stomach	3
Lung	5

PALIATIVE TREATMENTS	
Pelvis	5
Brain	7
Bone metastasis	3
Spine cord	8
Lung	5

RADICAL TREATMENTS - DOSE AND FRACTIONATION

RADICAL TREATMENTS	
Prostate	66 Gy in 33fr 50Gy in 25fr
Rectum	45Gy in 25 fr + boost 5.4Gy in 3fr 25Gy in 5fr
Breast	50Gy in 25 fr + scl 50Gy in 25fr + boost 10Gy in 5fr
Chest wall	50Gy in 25fr
Stomach	45Gy in 25fr
Lung	50Gy in 25fr + boost 16Gy in 8fr

PALIATIVE TREATMENT - DOSE AND FRACTINATION

PALIATIVE TREATMENT	
Brain	24 Gy in 10 fr 20Gy in 5 fr
Bone metastasis	30Gy in 1 fr 20Gy in 5 fr
Spinal cord compression	8Gy in 1 fr 20Gy in 5 fr
Lung	30Gy in 10 fr 42Gy in 14 fr

PLANS AND EXPECTATIONS

By the end of 2012 and during first half of 2013, we expect to have 25 patients on treatment every single day, which is maximum number of patients in our actual conditions.

Main reasons are :

- just one treatment planning system (TPS) which is used for planning and**
- contouring**
- limited human resources**





SPECIAL THANKS TO

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Dr. Silvia Anglesio, Dr. Barbara Sola and Laura Fantini (1st team)

Dr. Francesca Giglioli, Dr. Fernando Munoz and Vilma Papurello (2nd team)

Dr. Ugo Nastasi, Dr. Andrea Filippi and Paolo Brossa (3rd team)

Dr. Anna Di Dio and Caterina Laganà (4th team)













GRAZIE !