

## PATIENT HISTORY

•39-year old Caucasian female with squamous cell carcinoma involving the peritoneum and abdominal wall

## DOSE PLANNING

### TPS: Pinnacle 8.0

- Depth of isocenter, gantry angle, collimator angle are determined from CT data set.
- Treatment field boundaries are defined using MLCs.
- MU values are determined by physics measurement. Pinpoint chamber used to determine output ratio, and calculate MU.

### Dose Prescription

**1500 cGy x 1 Fx**

**Field data: 6 MV**

Spec: Dmax, 100 cm SAD,  
MLCs block grid field.

### Grid MU Meas.

**X1 5.0 X2 5.0**

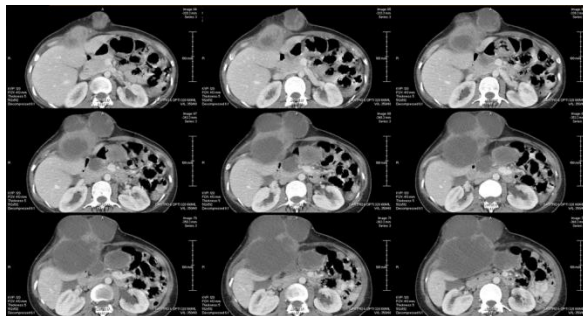
**Y1 12.5 Y2 12.5**

**Equivalent Square 14.3**

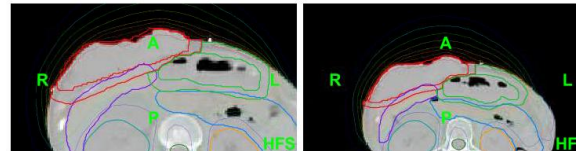
**MU=1551.**

Patient received 50.4Gy  
(1.8Gy x 28fx) radiation  
treatment after GRID  
therapy.

## CT Images: Before GRID Tx

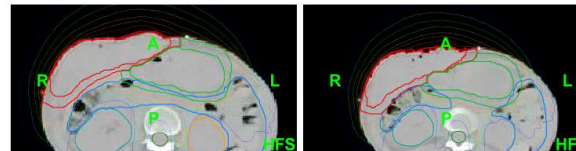


## CT Images: 4 weeks after GRID Tx



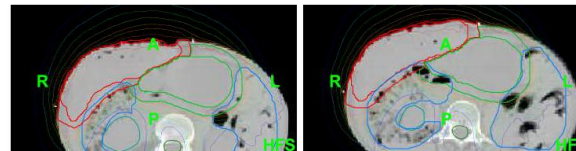
Slice 55 - Transverse

Slice 58 - Transverse



Slice 61 - Transverse

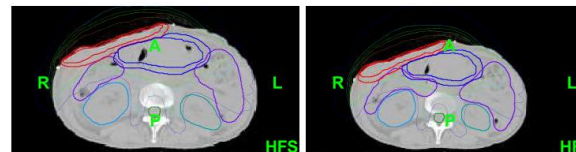
Slice 64 - Transverse



Slice 71 - Transverse

Slice 72 - Transverse

## CT Images: 6 weeks after GRID Tx



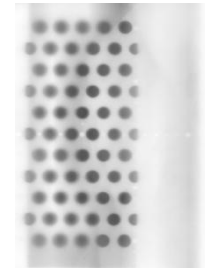
Slice 73 - Transverse

Slice 74 - Transverse

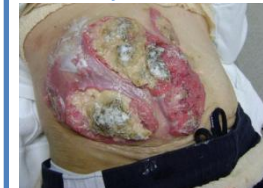
## GRID Block Setup



## Portal Image Verification



## 10 days before Tx



## 3 days after Tx



## 5 weeks after Tx



## 7 weeks after Tx



## SUMMARY

- Tumor responded the GRID treatment quickly as CT images shown.
- Subsection of tumor fell off following GRID therapy (~ 4 weeks post treatment).
- QOL greatly improved for patient and family.
- Patient deceased ~1 year after treatment.