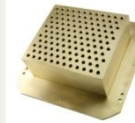


# Spatially Fractionated GRID Radiation Therapy (SFGRT) Using a Brass Collimator – Left Scapula

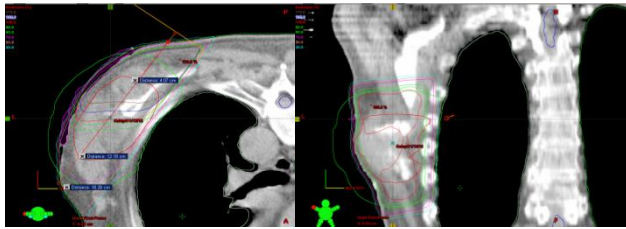
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## PATIENT HISTORY

- 71-year old Caucasian male with hepatocellular carcinoma metastatic to left scapula, Stage IV
  - Pain in left shoulder area 8/10
  - No range of motion of left arm

## DOSE PLANNING



## DOSE

### PRESCRIPTION

**2000 cGy x 1 Fx**

Field data: 10 MV  
Spec: Dmax, 100 cm SSD,  
MLCs block grid field.

### Grid Dose Calc.

Dose (Gy)	20	
Energy (MV)	10	
X1	5.5	X2 5
Y1	3.4	Y2 6
Equivalent Square	9.9	
Percent Blocking	7%	
Blocked Eq Square	9.2	
Output Factor	0.890	
SSD	100cm	
Depth of Dmax	2.2	
MU	2347	

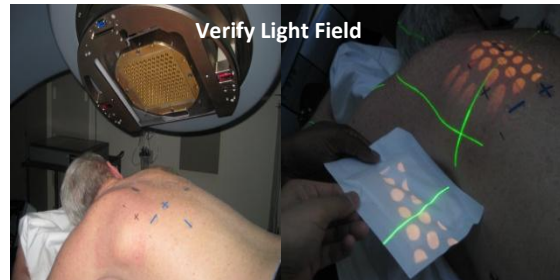
## TPS: Eclipse 8.6

•Surface to depth measurements taken to determine energy and dose.

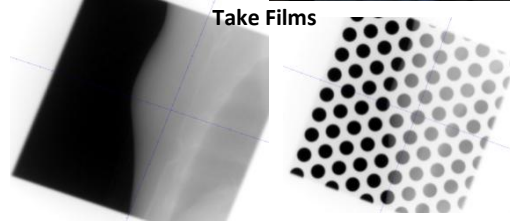
•Measurements include surface to proximal point in GTV, surface to distal point in GTV and surface to exit point.

•Open field used to determine entry/exit angle, targeting of GTV and avoidance of OARs

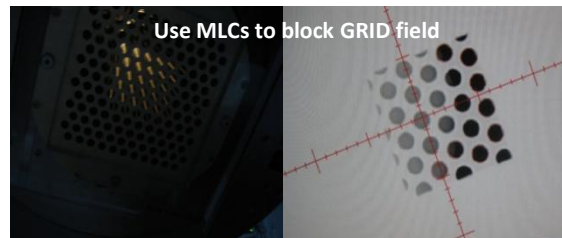
## GRID Block Setup



Take Films



Use MLCs to block GRID field



Follow up: 5 days

Follow up: 2 weeks



Follow up: 6 weeks

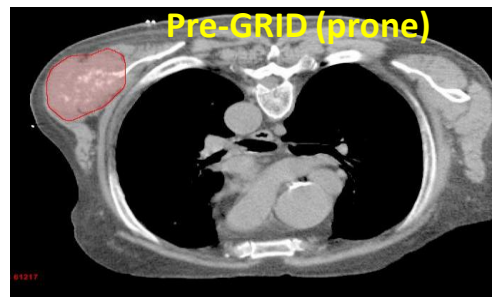
Follow up: 7 Mos.



## SUMMARY

- Patient as soon as 6 weeks: no pain or skin reaction with full range of motion
- Patient is almost 1 year post irradiation with no recurrence of disease at the scapula

Pre-GRID (prone)



Post-GRID (Supine) 7 Mos. later

