

## RTOG 0438 – Highly-Conformal Liver RT

### Plan Scoring – 40 Gy dose level

Target Scoring – 40 Gy dose level		
No Variation	Minor Variation	Major Variation
100 % of PTV is at, or above 36 Gy, <b>and</b>	100% of PTV1 is at, or above 34 Gy <b>and</b>	Failure to achieve either <i>No Variation</i> or <i>Minor Variation</i>
Maxdose <sub>PTV</sub> ≤ 48 Gy	Maxdose <sub>PTV</sub> ≤ 48 Gy	

### Organs at Risk (OAR)

**NOTE: No tissue outside of the PTV is allowed to receive more than 44 Gy (Varies with dose level).**

#### Critical Organ Dose-Volume Limits

The following table lists maximum dose limits to a volume within several critical organs.

Organ	Volume/Dose
Normal Liver (Liver minus GTVs: Volume must be at least 1000 cc)	70% ≤ 27 Gy <b>and</b> 50% ≤ 24 Gy
Kidney (combined volume)	67 % ≤ 18 Gy: Both kidneys functional 90 % ≤ 10 Gy: Single kidney functional
Spinal Cord	No point > 34 Gy
Small Bowel	No more than 1 cc volume > 37 Gy
Stomach	No more than 1 cc volume > 37 Gy

**All doses reported for Organs at risk are physical doses and are constant for all dose levels.**