

Table S1 Risk of toxicity (CTCAE) based on total volume (both soft tissue and bone)

	Cut point	sensitivity	specificity	Positive predictive value	Negative predictive value	Accuracy
Grade 2						
V10	57%	0.6495	0.6154	0.7826	0.4516	0.6386
V20	34%	0.6392	0.6264	0.7848	0.4488	0.6351
V30	18%	0.6340	0.6593	0.7987	0.4580	0.6421
V40	11%	0.6134	0.6923	0.8095	0.4565	0.6386
V50	7%	0.6186	0.6703	0.8000	0.4519	0.6351
Grade 3						
V10	59%	0.6232	0.6204	0.3440	0.8375	0.6211
V20	36%	0.6087	0.6065	0.3307	0.8291	0.6070
V30	19%	0.6377	0.5741	0.3235	0.8322	0.5895
V40	11%	0.7101	0.5463	0.3333	0.8551	0.5860
V50	7%	0.6522	0.5139	0.3000	0.8222	0.5474