

Standardized dose constraints for 1 fraction SBRT treatment of bone metastasis

Note: Dose recommendations are GTV diameter > 4 cm: 12 Gy x 1 OR GTV diameter<=4cm: 16 Gy; For more details see: JAMA Oncol. doi:10.1001/jamaoncol.2019.0192; Eligibility criteria 1. Path diagnosis of cancer 2. no prior RT to target 3. painful bone met at least 2/10 4. >= 18 yrs old 5. life expectancy >= 3 mo 6. ECOG <=2

Structure ID	Goal
Bowel_Small	D0.1cc[Gy] ≤ 11.00
BrachialPlex_L	D0.1cc[Gy] ≤ 17.50
BrachialPlex_R	D0.1cc[Gy] ≤ 17.50
BrachialPlexi	D0.1cc[Gy] ≤ 17.50
Brainstem	D0.1cc[Gy] ≤ 14.00
CaudaEquina	D0.1cc[Gy] ≤ 16.00
CaudaEquina_PRV	D0.1cc[Gy] ≤ 17.60
Colon	D0.1cc[Gy] ≤ 16.00
Duodenum	D0.1cc[Gy] ≤ 10.00
Esophagus	D0.1cc[Gy] ≤ 16.00
Esophagus	D5.0cc[Gy] ≤ 12.00
GreatVes	D0.1cc[Gy] ≤ 18.00
Heart	D0.1cc[Gy] ≤ 22.00
Kidney_L	D67%[Gy] ≤ 8.00
Kidney_R	D67%[Gy] ≤ 8.00
Kidneys	D35%[Gy] ≤ 8.00
Liver	DC700cc[Gy] ≤ 9.60
Rectum	D0.1cc[Gy] ≤ 18.00
SacralPlex	D0.1cc[Gy] ≤ 18.00
Skin	D0.1cc[Gy] ≤ 10.00
SpinalCord	D0.1cc[Gy] ≤ 14.00
SpinalCord_PRV	D0.1cc[Gy] ≤ 16.00
Stomach	D0.1cc[Gy] ≤ 14.00
Trachea	D0.1cc[Gy] ≤ 20.00