Tumor Segmentation Liver Segmentation

Liver CT and **Segmented Tumor**



Outcome: Local Progression

$$rac{\sum_{i=1}^{N_g} \sum_{j=1}^{N_g} (p_i {+} p_j) (i {-} j)^2}{\sum_{i=1}^{N_g} s_i}$$

$$rac{rac{1}{N_p} \sum_{i=1}^{N_p} (\mathbf{X}(i) - ar{X})^4}{\left(rac{1}{N_p} \sum_{i=1}^{N_p} (\mathbf{X}(i) - ar{X})^2
ight)^2}$$

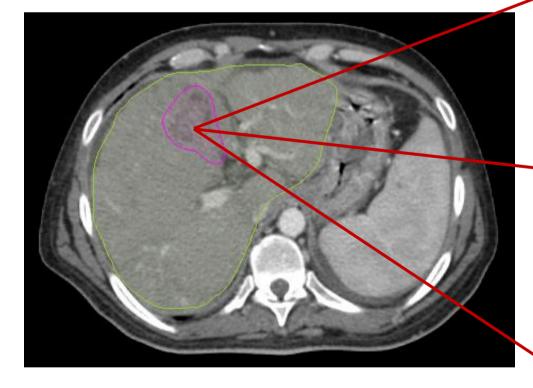
$$\sum_{i=1}^{N_g} \sum_{j=1}^{N_g} ig(i+j-\mu_x-\mu_yig)^3 p(i,j)$$

Time-To-Event: 8.3 Months

Skewness: 198.6652

Gray Level Co-occurrence $\sum_{i=1}^{N_g}\sum_{j=1}^{N_g}\left(i+j-\mu_x-\mu_y
ight)^3p(i,j)$ Gray Level Co-occurrence Matrix Cluster Shade: -955.8940

Liver CT and **Segmented Tumor**



Outcome: No Local Progression

$$rac{\sum_{i=1}^{N_g} \sum_{j=1}^{N_g} (p_i {+} p_j) (i {-} j)^2}{\sum_{i=1}^{N_g} s_i}$$

$$rac{rac{1}{N_p} \sum_{i=1}^{N_p} (\mathbf{X}(i) - ar{X})^4}{\left(rac{1}{N_p} \sum_{i=1}^{N_p} (\mathbf{X}(i) - ar{X})^2
ight)^2}$$

$$\sum_{i=1}^{N_g}\sum_{j=1}^{N_g}ig(i+j-\mu_x-\mu_yig)^3p(i,j)$$

Neighboring Gray Tone Difference Matrix Strength: 0.0071

> **Skewness:** -0.9242

Gray Level Co-occurrence $\sum_{i=1}^{N_g} \sum_{j=1}^{N_g} \left(i + j - \mu_x - \mu_y \right)^3 p(i,j)$ Matrix Cluster Shade: -452.4516