

Bio-Heat Transfer study for thermal surgery for cancer ablation, Carlos Acosta M.S.

A. Goals: Predict temperature distribution and location significance of Radio Frequency probe during cancer ablation and thermal surgeries.

B. Brief Description: Cancer cells can grow rapidly. Destroying all these cells during thermal surgeries is crucial. Otherwise cells can restart growth in remote locations. Predicting the amount of heat needed to destroy cells is important.

C. Heights of Achievements this semester:

- Recollected experimental data from ablating a bovine liver to validate the model.
- Reconstruction of computational Liver geometry

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