

# Planning Tool for Multiple-Probe Cryoblation

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## Technology description

### Description

Cryoablation is used to treat tumors in the kidney, prostate, liver, lung, breast, and soft tissue. Compared to heat-based ablation (microwave and radiofrequency), cryoablation can result in less pain, less damage to adjacent critical structures such as the renal collecting system, and better intra-procedural monitoring via visualization of the ice ball on CT, ultrasound, or MRI. MSK investigators have created a planning tool for multiple-probe cryoablation which searches through the 5670 cryoablation simulations to find the probe spacing and ablation time that produces the desired ice ball shape and dimensions.

### Institution

[Memorial Sloan-Kettering Cancer Center](#)

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