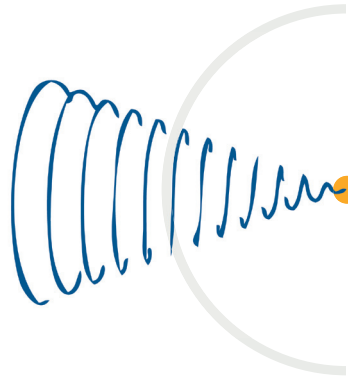


Focused Ultrasound

John Grisham *The Tumor, A Non-legal Thriller*

Table 1

Effects at focal point



Variety of effects,
variety of disorders...

- **Thermal ablation**
precise heating and destruction of tissue
- **Focal drug delivery**
delivery of very high concentrations of drugs precisely where they are needed
- **Blood-brain barrier opening**
temporary access of drugs to the brain
- **Immunomodulation**
stimulation of immune response allowing body to fight cancer
- **Neuromodulation**
reversible stimulation or inhibition of cells in the brain and nervous system
- **Radiation sensitization**
sensitizing tumors to effects of radiation allowing use of lower dose to kill cancer cells
- **Stem cell delivery**
specific "homing" of stem cells to targeted tissue

Table 2

Status of progress by disease

