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Avner Friedman* (afriedman@mbi.ohio-state.edu), MBI, Ohio State University, Columbus, OH 43210. *Virotherapy in brain cancer.*

Glioblastoma is a terminal brain cancer with average survival of less than one year. An innovative approach to treatment is by injections of virus particles into the tumor; the virus particles attack the tumor cells and replicate within them, and when these cells die, the new virus goes on to invade other tumor cells. In this talk I will discuss a mathematical model which includes also the involvement of the immune system and immune suppressors, and draw some biomedical conclusions from the model. The model is formulated as a free boundary problem for a system of PDEs. (Received January 09, 2006)