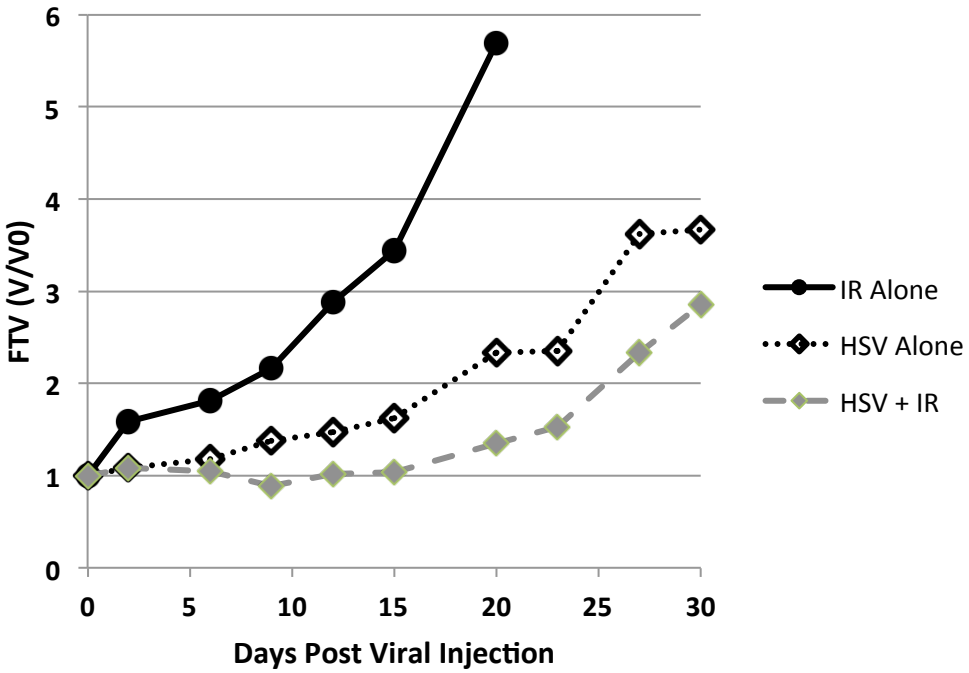
Supplemental Methods:

D54MG cells were cultured at 37°C and 5% carbon dioxide atmosphere in Dulbecco modified Eagle medium:F12 medium with 7% fetal bovine serum. To establish D54MG tumors in athymic nude mice, D54 cells were trypsinized and injected subcutaneously at 4.5 $x10^6$ cells in 200ul serum free DMEM into the right flanks of 6-8 week old mice. 3 weeks post implantation, tumors were measured using vernier calipers and mice were randomized and inoculated with $2.25x10^7$ oncolytic HSV-1 virus or saline intratumorally. Mice were irradiated 24 hours post implantation using a Co-60 source irradiator. ^{60}Co was administered in a 28 × 28-cm collimated beam to 5 animals arranged on a 5-cm backscatter board, with the bodies shielded with 8-cm-thick Cerrobend lead shielding. The tumors were irradiated with one fraction of 5 Gy.

Supplemental Figure Legend:

Supplemental Figure 1: Fractional tumor volumes of D54 glioma xenografts. D54 glioma xenografts were treated with oncolytic HSV-1 alone, a single fraction of 5 Gy IR, or oncolytic HSV-1 followed by 5 Gy 24 hrs post infection. Tumors volume measurements were normalized to tumor volumes on day 0, FTV (V/V0).

Supplemental Figure 1



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