Verification of Gamma Knife eXtend System based fractionated treatment planning using EBT2 film.

Figure 1. Optical density vs absolute dose curves of EBT2 film in the 0-12 Gy dose range for red channel.

Figure 2 (a) Human head shaped phantom. (b) Cylindrical Film holder with rectangular film cassette.

Figure 3 (a) Phantom with film insert in YZ plane. (b) EBT2 film exposure in sagittal plane. (c) Isodose overlay between TPS dose (blue line) and Film measurement (red line). (d) Gamma histogram for yz plane showing pixels pass rate for 0.5%/0.5mm tolerance criteria.

Figure 4 (a) Phantom with film insert in XZ plane. (b) EBT2 film exposure in coronal plane. (c) Isodose overlay between TPS dose (blue line) and Film measurement (red line). (d) Gamma index map. (e) Gamma histogram for xz plane showing pixels pass rate for tolerance criteria of 0.5%/0.5mm.