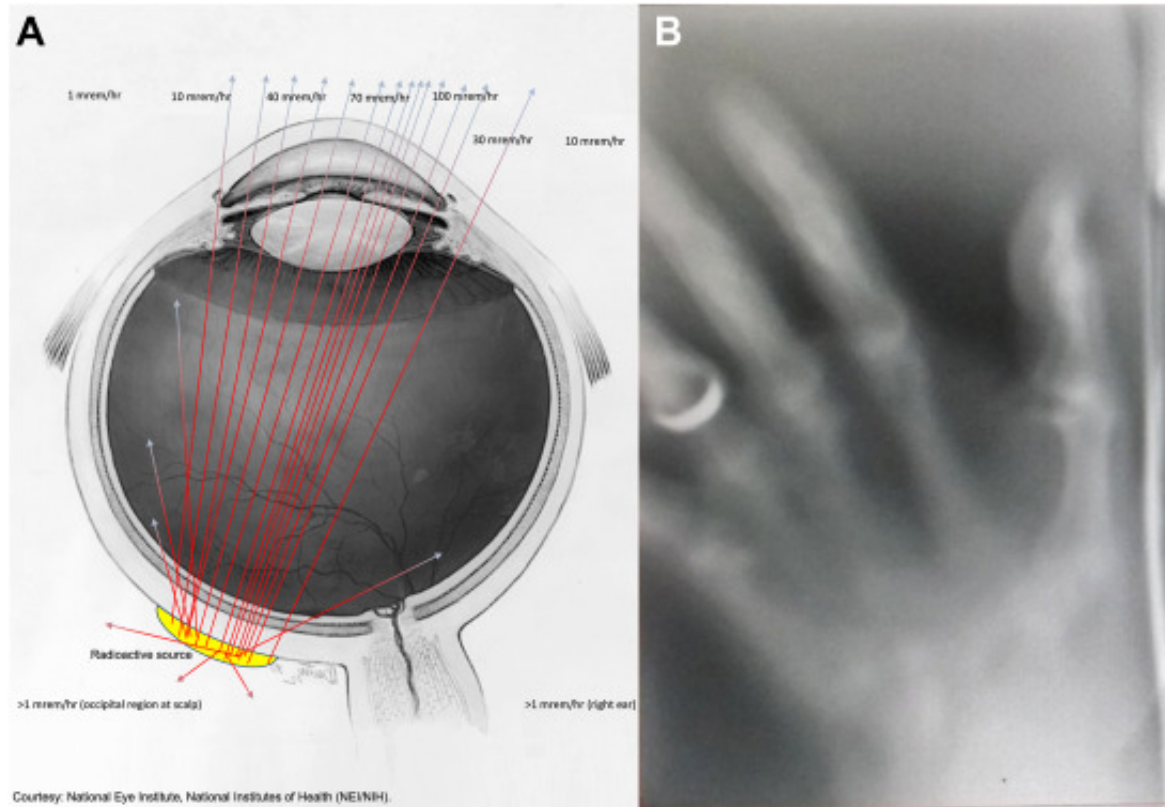


# X-Ray Vision during Iodine-125 Plaque Radiation Treatment of a Choroidal Melanoma



Iodine-125 brachytherapy was initiated in a 53-year-old man with a choroidal melanoma. The patient's background as a Hazmat radiation exposure instructor allowed him to measure the exposure capabilities of his radioactive plaque. Based on his understanding of radioactive decay and waste gamma radiation, he used the inverse square law to determine a convergent hotspot anterior to the orbit, just lateral to the nose (A). Using the PD-10i dosimeter (SAIC), he determined that the exposure needed for a hand plate x-ray scan would be 10 to 15 millirem, achievable with 10 minutes of unprotected exposure. He performed a hand x-ray scan using these parameters (B) Magnified version of Fig A-B is available online at [www.opthalmologyretina.org](http://www.opthalmologyretina.org).