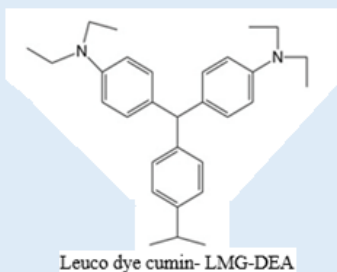
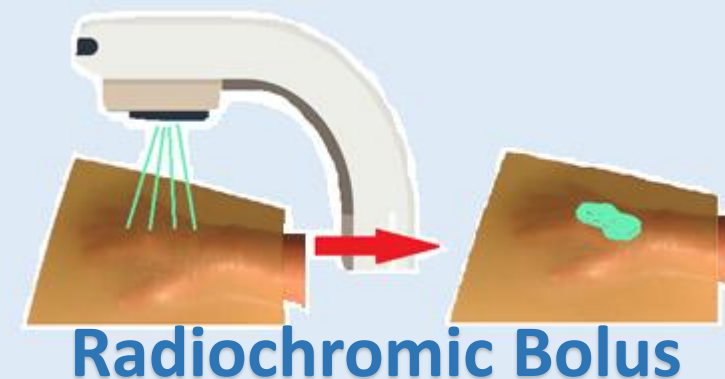
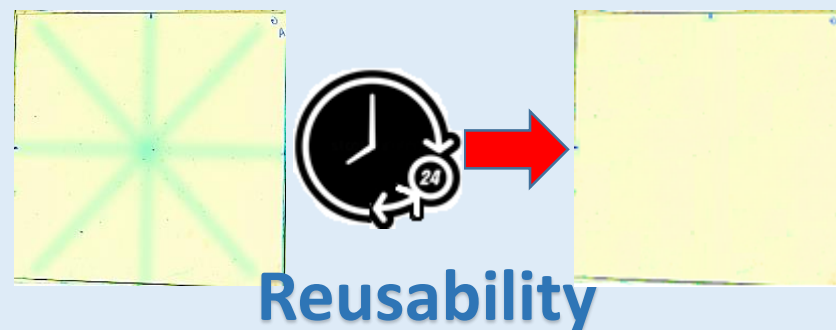


First characterization of a novel reusable radiochromic sheet for QA and dose measurement

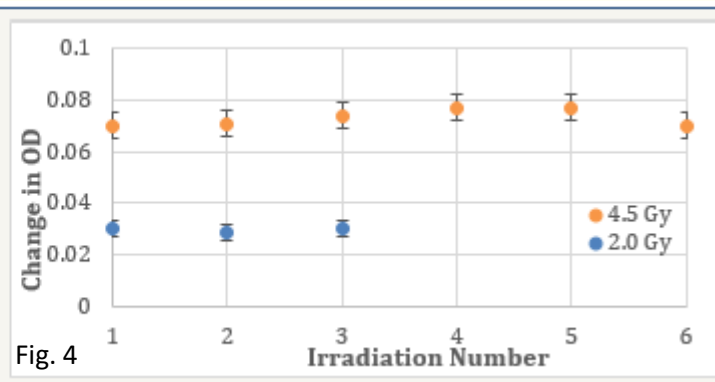
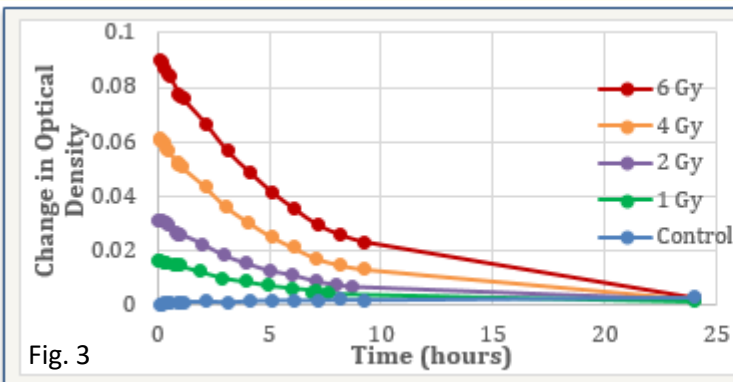
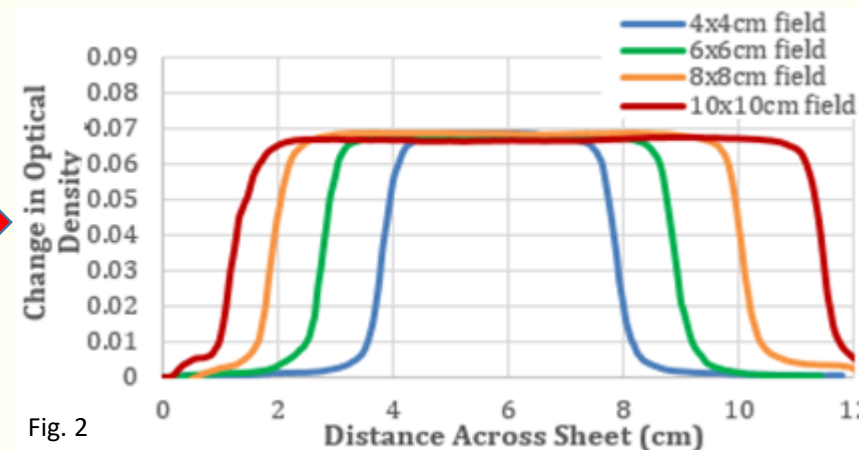
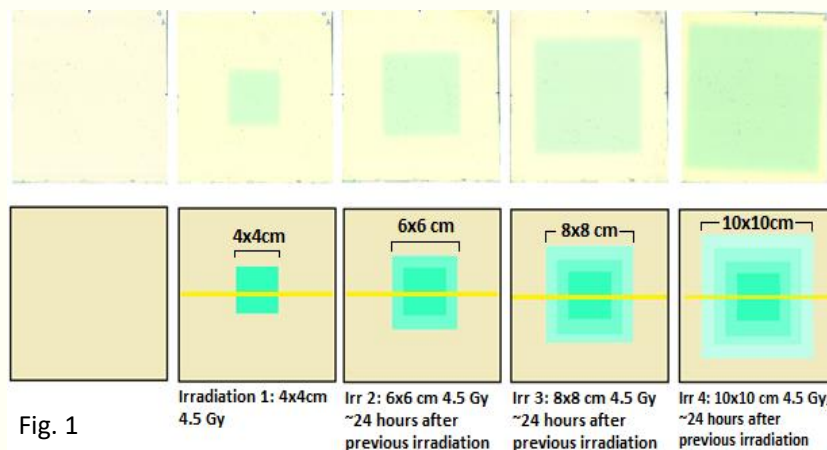
Cielle Collins - Wed 8/1/18 11:25AM
 New QA and Dosimetry Techniques



Radiochromic
 Leuco Dye



Purpose: First characterization of a new formulation of Presage (Heuris Inc.) in sheet form (1-10mm). The sheets are potentially reusable and applicable as an economic film alternative and a radiochromic bolus.



Results indicate that the sheets do not carry a memory of previous irradiations (fig. 1&2), that the radiation induced color change clears to baseline in 24 hours (fig. 3), and that they are reusable (fig. 4). Change in optical density after irradiation is proportional to delivered dose. **Conclusion:** Reusable presage shows promise as an economic film alternative and radiochromic bolus.