

**INSTRUCTIONS FOR IRRADIATION OF THERMOLUMINESCENT DOSIMETERS
IN A BLOOD IRRADIATOR**

Enclosed are numbered packets containing 2 dosimeters each (e.g. 12, 15, 16, or 20 packets of two, or a variable number depending on your order). Please keep the dosimeters in the numbered, waterproof packets. Place the dosimeter pairs throughout the blood chamber, selecting points of measurement which you believe will sample the minimum, maximum, and central dose. You may use bags of water or blood to provide the usual scattering and attenuation material, with dosimeters taped to the outside of the bags. As an alternative, you may place dosimeters in a phantom of any tissue/blood equivalent material. These dosimeters are selected to read in the 1000 to 5000 cGy range, so you should set the machine for a normal one-cycle irradiation of blood.

Fill out the enclosed datasheet and include a sketch or diagram to show where the TLD were placed, noting the ID# of each packet. On the datasheet be sure to check the type of material (water, blood, polystyrene) used in the canister during the irradiation of the TLD.

Return the dosimeters and datasheet to us. Overnight return is not necessary because we must wait ~7 days for read-out in order to allow decay of early spurious peaks.

PLEASE BE SURE THAT DOSIMETERS ARE RETURNED TO US AT THE FOLLOWING ADDRESS. (A padded envelope with the correct address label is enclosed.)

Radiation Dosimetry Services
8060 El Rio St., ERD 1.200
Houston, TX 77054-4186

If you have any questions about the irradiation of the dosimeters or their return, please call (713) 745-8999. Regular processing of reports takes approximately 2 weeks. If you need the results expedited, please contact our office.