

JAN 29 1970

DML:LB:NB

Department of the Army  
Office of the Surgeon General  
Washington, D.C. 20315

Attention: Lt. Col. James Anderson, MSC  
Preventive Medicine Division  
MKDPS-PO

Gentlemen:

We have reviewed the letter from Fitzsimons General Hospital which you submitted with your letter dated January 16, 1970. We have not routinely authorized the use of up to 5 millicuries of iodine 131 for determination of functioning metastases in patients with thyroid carcinoma. If Fitzsimons General Hospital wishes to use doses of this magnitude, a research and investigational program should be established for such use. A research protocol in accordance with the specifications in the enclosed copy of our medical licensing guide should be submitted.

A dosage of up to 120 microcuries per gram of thyroid tissue for treatment of hyperthyroidism is not inconsistent with dosages which are currently used. The statement that the dosage would be calculated upon the basis of the patient's uptake does not provide information concerning total dose since it is not possible to determine thyroid size based solely on the uptake of iodine 131 in the thyroid. For treatment of the thyroid patients with cardiac dysfunction, the use of a dosage of up to 250 microcuries of iodine 131 per gram of thyroid tissue may be inadequate. The dose normally used for ablation of the thyroid is in the range of 30 millicuries of iodine 131.

Sincerely,

Distribution:  
St. Br. Dist.  
CO, Reg. IV

Original Signed by  
Nathan Bassin

Nathan Bassin  
Isotopes Branch  
Division of Materials Licensing

Enclosure:  
AEC Licensing Guide--Medical Programs

MT/ST	OFFICE ▶	DML:LB							
Tape A									
Ref. 13	SURNAME ▶	NBassin							
Cress	DATE ▶	1/28/70							