

1. TASK LONG TITLE Evaluation of Use of Radioisotopes in Diagnosis and		2. TASK NO. MR-005.12-1504
3. SECURITY OF TASK Unclassified		4. DATE MAR 15 1962
5. A. SHORT TITLE (76 spaces only) Radioisotopes-(Medical) Treatment		
5. REPORT TYPE A. <input type="checkbox"/> INITIAL <input type="checkbox"/> REVISED CONTENT <input checked="" type="checkbox"/> ANNUAL PROGRESS <input type="checkbox"/> TERMINATION		6. TECHNICAL SUB-AREA Medical
9. <input checked="" type="checkbox"/> BASIC RESEARCH <input type="checkbox"/> APPLIED RESEARCH <input type="checkbox"/> DEVELOPMENT <input type="checkbox"/> T&E		7. TASK OFFICE BUMED-713
8. CONTRACTOR OR LABORATORY U.S. Naval Hospital St. Albans, New York Radioisotope Laboratory	9. CONTRACT OR WORK ORDER	10. PRINCIPAL INVESTIGATOR H.C. DUDLEY, Captain MSC USN R.R. LUND, LCDR MC USN J.E. TURNER, LCDR MC USN
11. TASK DURATION PERIOD: FROM (Date) 1952	TO (Date) Indefinite	
12. ESTIMATED ANNUAL SUPPORT LEVEL <input checked="" type="checkbox"/> UNDER \$25,000 <input type="checkbox"/> \$25,000-50,000 <input type="checkbox"/> \$50,000-100,000 <input type="checkbox"/> \$100,000-500,000 <input type="checkbox"/> \$500,000-1,000,000 <input type="checkbox"/> OVER \$1,000,000		

13. WORK DESCRIPTION (List significant accomplishments upon completion or termination.)
- (a) Study of I-131 labeled Human Serum Albumin in Patients; Liver and Renal blood flow following surgery.
 - (b) Study of Chelated Y-90 in patients with leukemia, polycythemia vera, multiple myeloma, or wide spread bony metastasis.
 - (c) Study of Y-90 Chloride or Nitrate, precipitated with Human Serum Albumin to a suspension, in patients with ascites or pleural effusion in advanced neoplastic diseases.
 - (d) Study of I-131 labeled Rose Bengal in liver function in patients with liver diseases.
 - (e) Study in dogs of localization in tissue and excretion rate of tritium labeled digoxin.
 - (f) Study of Renal function in hypertension, renal diseases, and renal trauma with I-131 tagged Hippuran.
 - (g) Study of tumor concentration of PVP (Vinylpyrrolidone) in tumors with C-14(PVP).

14. REPORTS DISTRIBUTED (Give author, title, and appropriate report identification no.)

Preliminary report on 18 months experience with liver scand and liver function studies with I-131 tagged Rose Bengal and Au-198 given at Brooklyn Surgical Society Meeting in December 1961.