	tions for Lodina 121 Thomany	
EXII Calcula	itions for fourie-131 Therapy	
TENT NAME:	DATE OF BIRTH:	
DICAL RECORD NUMBER: 169551		
TE OF ADMINISTRATION: 6/7/2012	AMOUNT ADMINISTERED: 102.0mC	Ci
CULATION TERMS: pancy factor = fraction of time exposed individua	al is assumed to be within the average distance chosen.	
fraction of total administered activity associated v fraction of total administered activity associated v	with effective half-time Teff-1, with effective half-time Teff-2.	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³¹	with effective half-time Teff-1, with effective half-time Teff-2.	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³³ L	with effective half-time Teff-1, with effective half-time Teff-2.	
fraction of total administered activity associated v fraction of total administered activity associated v 	with effective half-time Teff-1, with effective half-time Teff-2. <u>I-Sodium Iodide (Naf) - Thyroid Cancer Patients</u> Occupancy Factor 025 F1 (extra-thyroidal) 0.95	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³¹	with effective half-time Teff-1, with effective half-time Teff-2. <u>I-Sodium Iodide (Naf) - Thyroid Cancer Patients</u> Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³³ 1	with effective half-time Teff-1, with effective half-time Teff-2. I-Sodium lodide (Naf) - Thyroid Cancer Patients Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T _{eff-1} (extra-thyroidal) 0.32 days	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³¹ L	with effective half-time Teff-1, with effective half-time Teff-2. <u>I-Sodium lodide (Naf) - Thyroid Cancer Patients</u> Occupancy Factor $\frac{0.25}{5}$ F1 (extra-thyroidal) $\frac{0.95}{5}$ F2 (thyroid) $\frac{0.05}{5}$ T _{eff-1} (extra-thyroidal) $\frac{0.32}{5}$ days T _{eff-2} (thyroid) $\frac{7.3}{5}$ days	
fraction of total administered activity associated v fraction of total administered activity associated v 	with effective half-time Teff-1, with effective half-time Teff-2. I-Sodium lodide (NaI) - Thyroid Cancer Patients Occupancy Factor 025 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T_{eff-1} (extra-thyroidal) 0.32 days T_{eff-2} (thyroid) 7.3 days	
fraction of total administered activity associated v fraction of total administered activity associated v 	with effective half-time Teff-1, with effective half-time Teff-2. I-Sodium Iodide (Naf) - Thyroid Cancer Patients Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T _{eff-1} (extra-thyroidal) $\overline{0.32}$ days T _{eff-2} (thyroid) $\overline{7.3}$ days Activity (mCi) $\overline{102}$ Average distance (m): $\overline{1}$	
fraction of total administered activity associated v fraction of total administered activity associated v 	with effective half-time Teff-1, with effective half-time Teff-2. <u>I-Sodium lodide (Naf) - Thyroid Cancer Patients</u> Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T_{eff-1} (extra-thyroidal) 0.32 days T_{eff-2} (thyroid) 7.3 days Activity (mCi) 102 Average distance (m): 1	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³¹	with effective half-time Teff-1, with effective half-time Teff-2. I-Sodium Iodide (Nar) - Thyroid Cancer Patients Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T_{eff-1} (extra-thyroidal) 0.32 days T_{eff-2} (thyroid) 7.3 days Activity (mCi) 102 Average distance (m): 1	
fraction of total administered activity associated v fraction of total administered activity associated v 	with effective half-time Teff-1, with effective half-time Teff-2. I-Sodium lodide (NaI) - Thyroid Cancer Patients Occupancy Factor 025 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T_{eff-1} (extra-thyroidal) 0.32 days T_{eff-2} (thyroid) 7.3 days Activity (mCi) 102 Average distance (m): 1 OK	
fraction of total administered activity associated v fraction of total administered activity associated v 	with effective half-time Teff-1, with effective half-time Teff-2. I-Sodium lodide (Naf) - Thyroid Cancer Patients Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T_{eff-1} (extra-thyroidal) 0.32 days T_{eff-2} (thyroid) 7.3 days Activity (mCi) 102 Average distance (m): 1 OK Clear: Total dose estimated for this exposure:	
fraction of total administered activity associated v fraction of total administered activity associated v 2. ¹³¹ 2. ¹³¹	with effective half-time Teff-1, with effective half-time Teff-1, with effective half-time Teff-2. <u>1-Sodium lodide (Naf) - Thyroid Cancer Patients</u> Occupancy Factor 0.25 F1 (extra-thyroidal) 0.95 F2 (thyroid) 0.05 T _{eff-1} (extra-thyroidal) 0.32 days T _{eff-2} (thyroid) $\overline{7.3}$ days Activity (mCi) $\overline{102}$ Average distance (m): 1 OK Clear Total dose estimated for this exposure: of 1-131 radiation to an individual at 1 meters, the f radiation received is 1.1 mSv or 1.1ev2 mrem. Input 0.25, F1=0.35, F2=0.05, Teff1=0.32 days, Teff2=7.3 F1 radiation to an inform whole body exposure of 129	

Calculated Radiation Amount: 1.1 mSv

NOTE: Patient is reliable if the total amount of radiation received is <5.0mSv

Calculator found at http://www.doseinfo-radar.com/ExposureCalculator.html

h: Mangtoj Alfr Date: 6/30/2014 Nuclear Medicine Tech:_ Authorized User: