

REPOSITORY FINNL
 COLLECTION Marshall Islands
 BOX No. 5685
 FOLDER Calculations

30 year dose - 3000 mrem
 pop - 550

Total Manrem = $\frac{1650,000 \text{ manrem}}{10^6} = 1650 \text{ person rem}$

409865

Risk Coefficients	Relative	Absolute
BEIR - I	$\sqrt{310/10^6} \text{ person rem}$	$95/10^6 \text{ person rem}$
BEIR - E (from BEIR III)	568	115
BEIR - III	182	67

Cancer death

BEIR I $\frac{310 \times 1650}{10^6} = \frac{511,500}{10^6} = 0.5$ $\frac{95 \times 1650}{10^6} = \frac{156,750}{10^6}$

$\frac{160 \times 1650}{10^6} = \frac{264,000}{10^6} = 0.26$ **(0.16)**

$\frac{458 \times 1650}{10^6} = \frac{755,700}{10^6} = 0.76$

a. Based on 15%
 Cancer incidence
 (3 years - 30yo) $83 \times 0.009 \times 3 = 0.996$
 .012

b. Based on 10%
 Cancer incidence $55 \times 0.009 \times 3 = 0.66$

BEIR I (from BEIR III) $\frac{568 \times 1650}{10^6} = 0.937200$ $\frac{175 \times 1650}{10^6} = 0.189750$

BEIR III $\frac{182 \times 1650}{10^6} = 0.300300$ $\frac{67 \times 1650}{10^6} = 0.11055$