

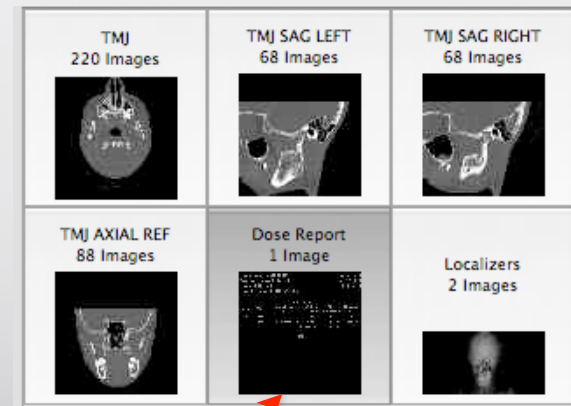
# Radiation Exposure Comparison

Daily Background/day	0.008 mSv
Panoramic	0.02 mSv
1 Trans Atlantic Flight	0.03 mSv
Chest Film	0.1 mSv (0.1-0.2 mSv)
i-CAT Head	0.1 mSv
Full Mouth Series Digital	0.12 mSv
Full Mouth Series F Speed	0.17 mSv
Conventional CT Head	0.5 mSv
Spiral CT Head	2.7 mSv
<b>Daily Background/year</b>	<b>3.1 mSv/year</b>
Airline Crews	4.6 mSv/year
Highest Safe Dose	20 mSv/year
Max Exposure US Worker	50 mSv/year
Exposure that can lead to Cancer	100 mSv/year

MRIs have no Radiation.  
 Radiation is cumulative over lifetime.  
 Safe dose of a harmful substance?

Comparison conversions done by John R Droter DDS  
 Gy converted to Sv using 1mGy/cm head = .0022mSv

Gy= Gray (Joules/kg)  
 Sv=Sievert (Joules/kg)



Spiral CT Dose Report  
 $1244 \text{ mGy/cm} \times .0022 = 2.7 \text{ mSv}$

Spiral CT 27x more than CBCT, but about half of airline crews yearly exposure.