

## Cancer Risk from CT

Smith-Bindman, R. et al. *Arch Intern Med.* 2009;169(22): 2078-86.

The lifetime attributable risk of 1 cancer from CT by age, gender, scanned area is:

“1 in ...”

	20 y		40 y		60 y	
	Female	Male	Female	Male	Female	Male
<b>CT Head / Neck</b>						
• Routine Head	4360 (3950-4770)	7350 (6540-8200)	8100 (6110-9500)	11080 (8350-12990)	12250 (9230-14360)	14680 (11070-14680)
• Routine Neck	2390 (1940-2940)	4020 (2770-5270)	4430 (3050-5580)	6058 (4170-8990)	6700 (4620-8940)	8030 (5530-8030)
• Suspected CVA	660 (450-860)	1120 (770-1470)	1230 (850-1820)	1682 (1170-2490)	1860 (1290-2750)	2230 (1550-2230)
<b>CT Chest</b>						
• Routine Chest, no contrast	390 (290-490)	1040 (770-1470)	720 (540-1180)	1566 (1170-2520)	1090 (820-1760)	2080 (1580-2080)
• Routine Chest, with contrast	380 (270-490)	1020 (710-1400)	720 (500-1210)	1538 (1070-2520)	1070 (750-1830)	2040 (1420-2040)
• Suspected Pulmonary Embolism	330 (230-430)	880 (610-1250)	620 (420-850)	1333 (920-1840)	930 (640-1280)	1770 (1220-1770)
• Coronary Angiogram	150 (130-170)	390 (350-430)	270 (250-420)	595 (540-820)	420 (370-840)	790 (710-790)
<b>CT Abdomen and Pelvis</b>						
• Abdomen-Pelvis, no contrast	500 (390-710)	660 (510-840)	930 (710-1430)	1002 (770-1540)	1400 (1080-2160)	1330 (1020-1330)
• Abdomen-Pelvis, with contrast	470 (390-550)	620 (470-810)	870 (710-1300)	942 (770-1400)	1320 (1080-1960)	1250 (1020-1250)
• Multiphase Abdomen-Pelvis	250 (180-320)	330 (260-400)	460 (330-680)	498 (360-730)	700 (500-1030)	660 (480-660)
• Angio to r/o Aneurysm/ Dissection	320 (270-370)	420 (380-470)	590 (390-710)	636 (420-770)	890 (580-1080)	840 (550-840)

*Interquartile range shown in parentheses.*