

# Dose Metrics by Anatomic Area and Patient Age Group for Kumar, 2015

		Sample Size		DLP					
				Mean		95% Upper Limit		95% Lower Limit	
		Country		Country		Country		Country	
		US	Non US	US	Non US	US	Non US	US	Non US
Session Anatomic Area	Age Categories								
ABDOMEN/PELVIS	< 1 yr	229	5	90	63	106	86	73	40
	1 to 4 yrs	411	26	108	82	117	104	100	59
	5 to 9 yrs	815	32	210	92	272	107	149	77
	10 to 14 yrs	1326	81	341	185	355	218	326	152
	15 to 19 yrs	4064	255	553	328	565	358	541	299
CHEST	< 1 yr	346	71	152	54	205	62	98	47
	1 to 4 yrs	275	71	112	77	164	87	60	67
	5 to 9 yrs	361	38	86	94	91	109	80	79
	10 to 14 yrs	556	49	162	108	174	129	149	88
	15 to 19 yrs	1287	179	309	219	323	241	295	196
HEAD	< 1 yr	1532	121	374	544	399	581	349	508
	1 to 4 yrs	1057	111	430	635	444	688	416	582
	5 to 9 yrs	1661	150	472	640	486	697	458	583
	10 to 14 yrs	2373	225	609	787	623	842	594	733
	15 to 19 yrs	5191	569	807	849	819	889	796	809
NECK	< 1 yr	60	1	117	19	165	.	69	.
	1 to 4 yrs	49	11	120	119	158	206	82	31
	5 to 9 yrs	40	11	168	106	209	151	127	62
	10 to 14 yrs	37	8	241	162	292	262	191	62
	15 to 19 yrs	94	5	356	152	417	323	294	-18

## Dose Metrics by Anatomic Area and Patient Age Group for Kumar, 2015

		CTDIvol in mGy						SSDE					
		Mean		95% Upper Limit		95% Lower Limit		Mean		95% Upper Limit		95% Lower Limit	
		Country		Country		Country		Country		Country		Country	
		US	Non US	US	Non US	US	Non US	US	Non US	US	Non US	US	Non US
Session Anatomic Area	Age Categories												
ABDOMEN/PELVIS	< 1 yr	3.3	2.6	3.7	2.9	3.0	2.2	4.2	3.6	4.8	5.1	3.6	2.2
	1 to 4 yrs	3.2	2.8	3.4	3.8	3.0	1.8	4.5	4.7	4.9	5.8	4.2	3.6
	5 to 9 yrs	4.1	2.9	4.3	3.3	3.9	2.4	6.6	5.2	7.0	5.9	6.3	4.4
	10 to 14 yrs	7.0	5.7	7.2	6.6	6.8	4.7	9.9	10.1	10.2	12.1	9.6	8.0
	15 to 19 yrs	9.8	8.5	9.9	9.1	9.6	7.8	12.7	14.1	12.9	15.7	12.5	12.6
CHEST	< 1 yr	4.8	3.1	5.6	3.4	3.9	2.7	.	.	.	.	.	.
	1 to 4 yrs	7.4	3.3	14.4	3.7	0.4	3.0	.	.	.	.	.	.
	5 to 9 yrs	3.3	3.8	3.5	4.4	3.1	3.2	.	.	.	.	.	.
	10 to 14 yrs	5.2	4.1	5.6	5.2	4.8	2.9	.	.	.	.	.	.
	15 to 19 yrs	9.1	8.3	9.6	9.5	8.7	7.1	.	.	.	.	.	.
HEAD	< 1 yr	25.0	27.7	26.7	29.2	23.2	26.2	.	.	.	.	.	.
	1 to 4 yrs	26.5	30.5	27.2	32.8	25.8	28.2	.	.	.	.	.	.
	5 to 9 yrs	29.3	30.8	30.0	33.0	28.6	28.6	.	.	.	.	.	.
	10 to 14 yrs	34.6	37.9	35.3	40.3	34.0	35.5	.	.	.	.	.	.
	15 to 19 yrs	43.0	40.8	43.4	42.4	42.5	39.1	.	.	.	.	.	.
NECK	< 1 yr	5.5	1.7	6.6	.	4.5	.	.	.	.	.	.	.
	1 to 4 yrs	6.3	7.1	7.6	12.5	5.0	1.7	.	.	.	.	.	.
	5 to 9 yrs	8.7	6.4	10.5	9.0	6.9	3.7	.	.	.	.	.	.
	10 to 14 yrs	15.5	9.7	18.3	15.4	12.7	4.1	.	.	.	.	.	.
	15 to 19 yrs	20.1	15.0	22.2	39.3	17.9	-9.3	.	.	.	.	.	.

Dates used for this analysis:

Before 1-3 months :	Jan	7	2014	-	March	30	2014	
Midst	:	March	31	2014	-	May	25	2014
After 3-6 months :	May	26	2014	-	Aug	17	2014	
After 6-9 months :	Aug	18	2014	-	Nov	9	2014	
After 9-12 months :	Nov	11	2014	-	Jan	4	2015	

Weird dates are to align changes with start of work weeks on Mondays.  
For example, the "Midst" wash-out period of March 31 2014 to May 25 2014 covers 8 full weeks (2 months), beginning on Monday March 31 and ending on Sunday May 25, 2014. Make sense?

Each section shows mean, median, and 1st and 3rd quartiles for each of three anatomic regions (Head, Chest, Abdomen/Pelvis) for each site, of which there are five total: UCD, UCI, UCLA, UCSD, UCSF.

We show this separately for Total Effective Dose (ED) and for CTDI Volume.

UC Dose Study  
Cavallo Pre-Post Analysis  
Total Effective Dose (ED)

xsite	anat	cavallo			n	mean	median	q1	q3
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UCD	Head	Before	1-3	months	1834	2.2753	1.9965	1.7000	2.5560
		Midst			1914	2.4203	2.2355	1.8650	2.6880
		After	3-6	months	1222	2.3858	2.1260	1.7960	2.6540
		After	6-9	months	2001	2.4428	2.2330	1.8660	2.7050
		After	9-12	months	2117	2.4565	2.2680	1.8480	2.7520
UCD	Chest	Before	1-3	months	1037	12.8664	10.9910	6.5200	16.5730
		Midst			1023	10.5494	8.6800	6.2860	13.2240
		After	3-6	months	650	11.3273	8.7845	5.9470	14.6300
		After	6-9	months	1036	10.9331	8.7510	6.3630	13.3785
		After	9-12	months	1044	10.6403	8.6450	6.3000	12.5385
UCD	Abdomen/Pelvis	Before	1-3	months	2419	13.8116	10.5910	7.1260	17.4390
		Midst			2576	9.1880	7.5060	5.8455	11.1990
		After	3-6	months	1597	11.5957	8.9470	6.4270	14.1770
		After	6-9	months	2479	9.3257	7.7120	5.8580	11.3870
		After	9-12	months	2311	9.3369	7.7670	5.9400	11.6080
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UCI	Head	Before	1-3	months	1469	3.3963	3.3790	3.1030	3.6120
		Midst			1893	3.1684	3.0360	2.8570	3.2670
		After	3-6	months	1073	3.4768	3.3790	3.1030	3.6830
		After	6-9	months	2003	3.1309	3.0060	2.8160	3.1810
		After	9-12	months	1937	3.0781	3.0060	2.8060	3.1890
UCI	Chest	Before	1-3	months	395	8.8639	9.0970	5.3720	11.1080
		Midst			452	8.0646	7.2335	5.4535	9.2600
		After	3-6	months	252	8.8927	8.3805	6.0160	10.6070
		After	6-9	months	484	7.3824	6.8360	5.2335	8.6265
		After	9-12	months	521	7.4195	6.9820	5.3140	8.5730
UCI	Abdomen/Pelvis	Before	1-3	months	1286	16.3849	13.8080	9.6440	19.6960
		Midst			1246	12.2218	10.3920	7.8150	13.9620
		After	3-6	months	883	14.8330	12.1470	8.9850	17.2680
		After	6-9	months	1356	11.2210	9.9810	7.3625	13.3115
		After	9-12	months	1292	11.6645	10.5145	7.8250	13.8865
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UCLA	Head	Before	1-3	months	3148	1.8379	1.5720	1.4090	1.9125
		Midst			3215	2.0431	1.7700	1.5330	2.1850
		After	3-6	months	2021	1.9070	1.5910	1.4160	1.9510
		After	6-9	months	3270	2.5864	2.3895	2.0490	2.9590
UCLA	Chest	Before	1-3	months	1805	18.9068	17.3220	13.8930	23.1710
		Midst			2132	15.6598	13.9220	10.6085	17.8495
		After	3-6	months	1396	18.6817	16.7165	13.5000	22.1750
		After	6-9	months	2063	14.3291	12.7920	10.0430	16.2710
UCLA	Abdomen/Pelvis	Before	1-3	months	2858	23.5852	21.2595	16.5870	28.4180
		Midst			3418	20.6424	18.0635	14.2360	24.9510
		After	3-6	months	2032	23.7243	21.0340	16.2695	28.6680
		After	6-9	months	3564	19.1610	16.7565	13.5325	22.8220

UCSD	Head	Before	1-3 months	2437	2.4895	2.4830	1.9670	2.9200
		Midst		2379	2.7225	2.6390	2.3520	3.0180
		After	3-6 months	1666	2.6358	2.5810	2.1220	2.9510
		After	6-9 months	2627	2.7274	2.6490	2.3660	2.9990
		After	9-12 months	2611	2.7199	2.6440	2.3500	3.0170
UCSD	Chest	Before	1-3 months	762	9.2537	7.9590	5.7680	11.2240
		Midst		735	8.1264	6.3130	5.1300	8.5060
		After	3-6 months	427	8.2904	7.2600	5.2990	10.1580
		After	6-9 months	900	7.7652	6.5785	5.0880	9.1200
		After	9-12 months	926	7.4631	6.5270	5.0560	8.9880
UCSD	Abdomen/Pelvis	Before	1-3 months	2505	23.9778	19.7940	13.3410	29.9030
		Midst		2350	17.1716	14.1730	10.1730	20.5300
		After	3-6 months	1643	22.0673	17.9040	12.6410	26.9550
		After	6-9 months	2641	15.3117	12.9160	9.4770	17.8150
		After	9-12 months	2525	15.8092	13.1410	9.6760	18.2450
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UCSF	Head	Before	1-3 months	1233	2.5457	2.5540	2.4070	2.7300
		Midst		1440	2.5614	2.5735	2.3920	2.7290
		After	3-6 months	993	2.6107	2.5980	2.4260	2.7760
		After	6-9 months	1623	2.5467	2.5960	2.4260	2.7510
		After	9-12 months	1624	2.5280	2.5460	2.3700	2.7170
UCSF	Chest	Before	1-3 months	934	6.9547	5.7155	3.3620	9.1740
		Midst		1056	5.8942	4.8615	3.2050	7.6415
		After	3-6 months	790	6.8299	5.8115	3.5060	8.9000
		After	6-9 months	1223	5.9814	5.1780	3.1050	7.7730
		After	9-12 months	1300	5.7711	4.8270	2.9990	7.4890
UCSF	Abdomen/Pelvis	Before	1-3 months	1607	14.4689	10.8540	6.6680	17.8070
		Midst		1909	11.8583	9.3100	6.1940	14.9870
		After	3-6 months	1320	13.8483	10.8720	6.5605	16.9935
		After	6-9 months	2136	11.7157	9.1515	6.2040	15.0440
		After	9-12 months	2184	12.0258	9.2930	6.1935	15.3330

UC Dose Study  
Cavallo Pre-Post Analysis  
Total CTDI Volume

xsite	anat		cavallo		n	mean	median	q1	q3
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UCD	Head	Before	1-3 months		1834	45.2583	44.2755	38.2500	53.4500
		Midst			1914	45.3773	44.5600	38.5479	53.4500
		After	3-6 months		1222	44.5353	43.5650	38.6300	53.0700
		After	6-9 months		2001	45.1376	44.3448	38.6400	53.4500
		After	9-12 months		2117	45.4857	44.4500	38.6551	53.8400
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UCD	Chest	Before	1-3 months		1037	14.4720	12.5500	7.3300	19.7200
		Midst			1023	14.9772	12.1700	8.4638	20.0100
		After	3-6 months		650	14.1653	11.3000	7.2400	19.5200
		After	6-9 months		1036	15.6941	12.3343	8.2650	20.2600
		After	9-12 months		1044	14.9708	12.0500	8.0500	18.5400
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UCD	Abdomen/Pelvis	Before	1-3 months		2419	11.7510	9.6400	6.9200	14.8000
		Midst			2576	10.8632	8.5200	6.3750	13.3810
		After	3-6 months		1597	11.3459	9.3154	6.7100	14.1813
		After	6-9 months		2479	10.9759	8.7000	6.4300	13.1100
		After	9-12 months		2311	11.1600	8.8030	6.4600	13.5474
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UCI	Head	Before	1-3 months		1469	59.9173	62.1200	62.1200	66.7800
		Midst			1893	53.7343	55.2200	53.5600	55.2200
		After	3-6 months		1073	60.0487	62.1200	60.2500	62.7200
		After	6-9 months		2003	52.9741	55.2200	53.5600	55.2200
		After	9-12 months		1937	52.9989	55.2200	53.5600	55.2200
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UCI	Chest	Before	1-3 months		395	10.3028	10.2200	6.2368	11.7200
		Midst			452	11.5019	10.4200	6.7584	13.7600
		After	3-6 months		252	11.1788	11.4400	7.4550	12.8550
		After	6-9 months		484	10.7309	9.5993	6.5650	13.7300
		After	9-12 months		521	10.4973	9.7900	6.7500	13.3100
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UCI	Abdomen/Pelvis	Before	1-3 months		1285	12.5455	10.8899	7.8800	15.0900
		Midst			1246	10.5252	9.6340	7.1800	12.9107
		After	3-6 months		883	11.9696	10.7500	7.9100	14.3600
		After	6-9 months		1356	10.2779	9.2662	7.3973	12.3427
		After	9-12 months		1292	10.4812	9.2300	7.2750	12.3250
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UCLA	Head	Before	1-3 months		3148	32.3257	32.9500	28.9000	35.8046
		Midst			3214	31.9265	31.6500	27.9300	35.3600
		After	3-6 months		2021	32.3722	32.9800	28.7100	35.8000
		After	6-9 months		3270	39.8330	39.9100	34.5400	45.9600
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UCLA	Chest	Before	1-3 months		1805	15.7140	16.3200	11.5529	19.8800
		Midst			2131	15.0284	14.6700	9.9200	19.0800
		After	3-6 months		1396	15.9568	16.0550	10.9624	19.6607
		After	6-9 months		2063	14.5763	13.8100	9.6300	17.9500
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UCLA	Abdomen/Pelvis	Before	1-3 months		2857	15.1708	15.2300	12.3000	17.9300
		Midst			3417	14.8057	14.7400	11.7335	17.4900
		After	3-6 months		2032	15.0868	15.0300	11.9765	17.7992
		After	6-9 months		3564	14.8351	14.6251	11.9062	17.7027

UCSD	Head	Before	1-3 months	2437	55.2453	59.3100	56.1000	63.0000
		Midst		2379	53.7028	58.6900	54.0500	63.0000
		After	3-6 months	1666	54.4425	58.6900	55.3300	63.0000
		After	6-9 months	2627	54.6382	58.9800	55.1300	63.0000
		After	9-12 months	2611	54.7290	58.8900	54.9200	63.0000
UCSD	Chest	Before	1-3 months	762	10.5272	9.7000	6.9700	13.5100
		Midst		735	10.9522	8.6800	6.6000	12.3100
		After	3-6 months	427	10.2486	9.4000	6.7200	12.9096
		After	6-9 months	900	10.5593	9.2200	6.9850	12.6900
		After	9-12 months	926	9.8952	8.9300	6.5000	12.2500
UCSD	Abdomen/Pelvis	Before	1-3 months	2505	15.9321	13.8330	10.7182	21.0700
		Midst		2350	15.6178	13.7583	10.3000	20.5000
		After	3-6 months	1643	15.9699	14.0484	10.6000	21.3424
		After	6-9 months	2641	15.2626	13.0800	10.3000	20.1000
		After	9-12 months	2525	15.2273	13.1250	10.3000	20.0730
UCSF	Head	Before	1-3 months	1233	48.9668	52.6800	52.6800	54.4900
		Midst		1440	48.3041	52.6800	52.6800	53.9600
		After	3-6 months	993	49.1069	52.6800	52.6800	54.5100
		After	6-9 months	1623	48.2108	52.6800	52.6800	53.9807
		After	9-12 months	1624	48.4077	52.5400	52.3800	53.9700
UCSF	Chest	Before	1-3 months	934	8.7881	7.2400	3.9300	11.7700
		Midst		1056	8.1219	6.4950	3.9400	10.7800
		After	3-6 months	790	8.8965	7.2300	4.2200	11.5900
		After	6-9 months	1223	8.4608	6.8278	3.8300	11.2300
		After	9-12 months	1300	8.0013	6.4050	3.6950	10.3150
UCSF	Abdomen/Pelvis	Before	1-3 months	1607	12.4980	9.8600	6.6600	16.8400
		Midst		1909	12.1151	8.8900	6.3400	16.0000
		After	3-6 months	1320	12.2927	9.4132	6.4091	16.7500
		After	6-9 months	2136	11.7818	9.0500	6.3600	14.7950
		After	9-12 months	2184	12.1896	9.3406	6.3750	16.4007