

TOTAL BODY DOSIMETRY

<u>Patient No.</u>	<u>Patient Wt.</u> <u>Kg</u>	<u>Lateral</u> <u>Dimension</u> <u>Cm</u>	<u>Surface</u> <u>Exposure</u> <u>R</u>	<u>Midline</u> <u>Air</u> <u>Exposure</u> <u>R</u>	<u>Midline</u> <u>Absorbed</u> <u>Dose</u> <u>Rad</u>	<u>Average</u> <u>Dose</u> <u>Rad Per</u> <u>100 R in</u> <u>Air at</u> <u>Midline</u>	<u>Average</u> <u>Dose</u> <u>Rad</u>	
UCM1.951212.001								
38	79	32.0	48	41	25	0.61	67.7	27.8
9	59	29.0	58(2)	50(2)	32(2)	0.64	69.6	34.8(2)
41	71	29.0	90	77	50	0.65	69.6	53.5
58	75	31.5	95	81	50	0.67	68.0	55.1
61	56	28.5	88	76	50	0.66	69.9	53.1
6	77	35.0	119	100 ⁿ	56	0.56	65.9	65.9
4	40	26.0	115	100	68	0.68	71.5	71.5
7	59	31.0	196	167	104	0.67	68.3	114.0
8	80	36.0	221	185	104	0.56	65.3	120.8
10	57	28.0	183	157	104	0.66	70.1	110.0
11	71	32.0	201	170	104	0.61	67.7	115.0
15	60	30.5	194	166	104	0.63	68.6	114.0
17	57	25.5	172	149	104	0.70	71.9	107.0
26	49	29.0	179	155	100	0.65	69.6	107.8
30	48	27.0	172	149	100	0.67	70.8	105.4
31	59	29.0	179	155	100	0.65	69.6	107.8
33	64	28.0	176	152	100	0.66	70.1	106.6
36	61	28.5	177	153	100	0.66	69.9	106.9
40	62	28.0	176	152	100	0.66	70.1	106.6
44	50	26.5	172	149	100	0.67	71.1	105.9
57	83	35.0	208	175	100	0.57	65.9	115.2
22	56	30.0	291	248	150	0.61	68.9	170.9
25	52	27.5	261	226	150	0.67	70.4	159.0
27	67	30.5	279	238	150	0.63	68.6	163.2
29	69	34.0	303	257	150	0.58	66.5	171.0
35	61	28.0	263	227	150	0.67	70.1	159.0
37	60	29.0	270	231	150	0.65	69.6	160.9
42	53	25.5	249	216	150	0.70	71.9	155.2
45	57	33.0	296	250	150	0.60	67.1	167.8
51	43	25.0	244	212	150	0.71	72.3	153.2
59	--	30.5	279	238	150	0.63	68.6	163.3
60	83	29.0	270	231	150	0.65	69.6	161.0
62	74	29.0	270	231	150	0.65	69.6	161.0
18	64	29.5	380	325	208	0.64	69.3	225.0
20	49	24.0	334	294	208	0.71	73.1	214.7
21	50	29.0	377	322	208	0.65	69.6	224.0
23	85	30.5	392	336	208	0.67	68.6	230.7
24	68	29.0	377	322	208	0.65	69.6	224.0
53	59	30.0	369	316	200	0.63	68.9	217.5

R

NO

NO

N



TOTAL BODY

TOTAL BODY DOSIMETRY

rad
R

<u>Patient No.</u>	<u>Patient Wt.</u> <u>Kg</u>	<u>Lateral</u> <u>Dimension</u> <u>Cm</u>	<u>Surface</u> <u>Exposure</u> <u>R</u>	<u>Midline</u> <u>Air</u> <u>Exposure</u> <u>R</u>	<u>Midline</u> <u>Absorbed</u> <u>Dose</u> <u>Rad</u>	<u>Average</u> <u>Dose</u> <u>Rad Per</u> <u>100 R in</u> <u>Air at</u> <u>Midline</u>	<u>Average</u> <u>Dose</u> <u>Rad</u>
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PARTIAL BODY (UPPER)

56	63	28.0	175	151	100	0.66	70.1	105.9
50	78	34.5	415	348	200	0.58	66.2	230.5
55	88	34.0	405	341	200	0.59	66.5	226.5

PARTIAL BODY (LOWER)

43	42	27.5	174	150	100	0.67	70.4	105.6
67	54	26.0	168	145	100	0.69	71.5	103.7
47	60	29.5	272	233	150	0.64	69.3	161.5
68	53	28.0	263	226	150	0.66	70.1	158.5
49	47	28.0	352	304	200	0.66	70.1	213.0
52	59	26.5	342	296	200	0.68	71.1	210.5
65	68	29.0	360	310	200	0.65	69.6	215.5
66	60	29.0	360	310	200	0.65	69.6	215.5
63	40	26.0	503	436	300	0.69	71.5	312.0
64	58	27.0	515	444	300	0.68	70.8	314.0

TRUNK (BASE OF NECK TO PUBIS)

TABLE I

From depth dose curve (see enclosed)

$\frac{18}{2.36}$

$$\mu = .0459 \text{ cm}^{-1}$$

$\frac{1}{2.36}$ correcting for distance

$$\mu = .039 \text{ cm}^{-1}$$

$\frac{36}{2.36}$

From Mayneord (Brit. J. Radiol. 17; Dec 1944, Table 2 p. 362)

μa	$\frac{\text{Average Dose}}{\text{Skin Dose}}$	a cm	$\mu = .039 \text{ cm}^{-1}$ lateral dimension = $2a$ cm
.1	.906	2.56	5.12
.2	.823	5.13	10.26
.3	.749	7.69	15.38
.4	.684	10.26	20.52
.5	.626	12.82	25.64
.7	.528	17.94	35.88
1.0	.415	25.65	51.30
3		5	

$$\begin{array}{r} 3 \\ 11 \\ 5 \\ 17 \\ 30 \\ \hline 266 \\ \hline 12 \end{array}$$

TABLE I

From depth dose curve (see enclosed)

$$u = .0459 \text{ cm}^{-1}$$

correcting for distance

$$u = .039 \text{ cm}^{-1}$$

From Mayneord (Brit. J. Radiol. 17: Dec. 1944, Table 2 p. 362)

If $\mu = .039 \text{ cm}^{-1}$

ua	<u>Average Dose</u> Skin Dose	a cm	lateral dimension = 2a cm
.1	.906	2.56	5.12
.2	.823	5.13	10.26
.3	.749	7.69	15.38
.4	.684	10.26	20.52
.5	.626	12.82	25.64
.7	.528	17.94	35.88
1.0	.415	25.65	51.30

TOTAL BODY DOSIMETRY

Patient No	Patient wt kg	Lateral Dimension cm		Medline Absorbed Dose rad		Average Dose and per 100R in air at midline	Integral Dose Average Dose rad		Dose	
		Surface Exposure R	Medline Air Exposure R	Average Dose rad	Average Dose rad					
TOTAL BODY										
38	79	32.0	48	41	25	67.9	27.5	2.4	2.4	
9	59	29.0	58(2)	50(2)	37(2)	67.6	34.8(2)	2.2	2.2	
13	84	32.0				50			5.3	
41	71	29.0	90	77	50	69.8	53.8	4.1	4.1	
58	75	31.5	95	81	50	69.0	56.5	4.5	4.5	
61	56	28.5	88	76	50	69.9	53.5	3.2	3.2	
(5) 6	77	35.0	119	100	54	65.9	65.9	5.5	5.5	
4	40	26.0	115	100	68	71.5	71.5	3.1	5.1	
7	59	31.0	196	167	104	68.5	114.5	7.3	5.4	
8 P	80	36.0	221	185	104	65.3	120.5	10.6	10.6	
10	57	28.0	183	157	104	70.7	116.0	6.9	6.9	
11 P	71	32.0	201	170	104	67.7	115.5	8.9	8.9	
(17) 15 P	60	30.5	194	166	104	68.5	114.5	7.4	7.4	
17 P	57	25.5	172	149	104	71.9	105.5	6.6	6.6	
26	49	29.0	179	155	100	69.6	107.8	5.7	5.7	
30	48	27.0	172	149	100	70.4	105.5	5.4	5.4	
31	59	29.0	179	155	100	68.6	107.5	6.9	6.9	
33	64	28.0	176	152	100	70.7	106.5	7.4	7.4	
36	61	28.5	177	153	100	69.9	106.9	7.1	7.1	
40	62	28.0	176	152	100	70.7	106.5	7.2	7.2	
44	50	26.5	172	149	100	70.1	105.9	5.7	5.7	
57	83	35.0	202	175	100	68.9	105.0	10.4	10.4	
74						150			100	
75						150			100	

Dose

4/14

(5)

(17)

10/18



22	56	30.0	291	248	156	69.9	170.9	10.4	7.1
25	52	27.5	261	226	150	70.4	159.0	8.2	
27P	67	30.5	279	238	150	68.6	163.8	11.8	
29	69	34.0	303	257	150	65.5	171.0	12.8	
(13) 35P	61	28.0	263	227	150	70.7	159.0	10.5	
37	60	29.0	270	231	150	69.6	160.9	10.4	
42P	53	25.5	249	216	150	71.8	158.8	8.8	
45P	57	33.0	296	250	150	67.7	167.8	10.4	
51P	43	25.0	244	212	150	72.8	153.8	7.1	
59P	-	30.5	279	238	150	68.6	163.8	-	
60P	83	29.0	270	231	150	69.6	167.0	14.4	
62	74	29.0	270	231	150	69.6	167.0	12.9	14.4
69					150				
18P	64	29.5	380	325	208	69.3	222.5	15.6	11.1
20	49	24.0	334	294	208	73.7	217.7	16.1	
4/6 21	50	29.0	377	322	208	69.6	247.0	12.1	
23P	85	30.5	392	336	208	68.6	230.7	21.2	
(8) 24P	68	29.0	377	322	208	69.6	247.0	16.5	
53P	59	30.0	369	316	200	68.9	222.5	13.9	21.2
72					200				
73					200				

PARTIAL BODY (UPPER)

0/3

(1) 56	63	28.0	175	151	100	66.7	105.8	3.0	3.0
50	78	34.5	415	348	200	66.7	200.5	7.3	
(2) 55	88	34.0	405	341	200	66.5	200.8	9.1	9.1
(3) 79					300				

PARTIAL BODY (LOWER)

4/10

①	43	42	27.5	174	150	100	79.8	10562.8	2.8
②	67	54	26.0	362	145	100	71.5	10373.6	
③	47	60	29.5	372	133	150	81.5	11956.2	5.4
④	65	53	28.0	363	146	150	81.5	15255.4	
	49	47	28.0	352	304	200	76.7	21306.4	
	52P	59	26.5	342	296	200	74.1	21157.9	
⑤	65P	68	29.0	360	310	200	69.4	21559.3	
	66	60	29.0	360	310	200	69.6	21558.3	
	63P	40	26.0	503	436	300	71.8	31108.0	
⑥	64P	58	27.0	515	444	300	70.7	31401.7	11.7
⑦	70					300			
	76					300			