

Lawrence Berkeley Laboratory  
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RECORDS SERIES TITLE	
Applied Science Division: Scientists' Papers - Papers of William E. Siri	
ACCESSION NO.	434-91-0131
FILE CODE NO.	19-14-18
CARTON NO.	7
FOLDER NAME	Dr. Leo Meyer (Marshall Island Natives)
NOTES	
FOUND BY	Perry Hall

COPY

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PRIVACY ACT MATERIAL REMOVED

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Dr Meyer's subjects

5/27/63

①

BEST COPY AVAILABLE

*	Dose #	Machine #	CPM	Ratio	Quench correction	Quench correction	Corrected count
'32	A	21	10,363	0.76	15.01%	2.66	27,488
'36	B	22	6,746	0.76	15.01	2.66	17,867
338	C	23	6,227	0.76	15.01	2.66	16,487
341	D	24	8,187	0.75	14.97	2.67	21,782
873	E	25	6,170	0.75	14.97	2.67	16,396
881	F	26	8,044	0.75	14.97	2.67	21,400
882	G	27	6,681	0.76	15.01	2.66	17,694
885	H	28	6,213	0.74	14.94	2.68	16,573
895	I	29	8,738	0.73	14.00%	2.86	24,908
916	J	30	8,019	0.76	15.01	2.66	21,248
128	K	31	8,737	0.75	14.97	2.67	23,250
322	L	32	6,801	0.75	14.97	2.67	18,081
60	M	33	10,336	0.75	15.01	2.67	27,520
332	N	34	9,875	0.74	14.94	2.67	26,229
138	O	35	11,742	0.74	14.94	2.67	31,000
142	P	36	9,490	0.76	15.01	2.66	25,166
159	Q	37	8,136	0.75	14.97	2.67	21,046
007	R	38	6,253	0.73	14.00	2.86	17,801
043	S	39	10,128	0.74	14.97	2.68	27,000
501	T	40	6,060	0.73	14.00	2.86	17,249
	U	41	6,370	0.72	13.50	2.86	18,855
5KB	V	42	29	2.22			
25,000	W	43	10,540	0.76	15.01	2.66	27,959
15,000	N	109	10,485	0.73	14.00%	2.86	29,904

Corrected to 2cc

efficiency  
Quench correction

Quench correction

Corrected count  
CPP-BK% QC

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\* Seton only 0.6cc labelled H<sub>2</sub>O from urine - so I added 1.4 cc distilled H<sub>2</sub>O to equate all quenchings - The CPM of 0.6cc H<sub>2</sub>O should be multiplied by 3.33 to bring it in line  
 \* SAME PPT AS WAS USED TO MAKE UP DOSES.

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int. std. method

Subject #	Hand #	% Fat cal 2.	Wt of fat in Kg	Lean body wt (Kg)	HT cm	Wt. Kg	Sex	Age
322		4.89	26.45	28.09			M	16
32		26.38	12.23	34.13			F	24
36		14.25	8.03	48.33			M	30
38		13.69	9.05	57.08			M	30
41		34.74	23.21	43.60			F	30
73		3.63	2.23	59.13			M	44
71		34.63	23.77	44.68			M	30
82		0.35	0.19	54.58			M	29
85		9.31	5.75	56.06			M	23
95		28.48	15.92	39.98			F	33
116		30.03	19.11	44.52			F	39
928		29.89	17.12	40.15			F	50
932		22.54	10.46	35.84			F	28
38		24.87	9.95	30.05			F	24
42		34.59	19.97	37.75			F	48
59		26.70	16.02	43.98			F	14
60		12.35	4.77	33.86			F	11
1007		20.98	14.97	56.39			M	52
1043		13.55	5.66	36.15			F	28
1501							M	30
		13.95	8.81	54.37			M	30

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Dr. Meyer's samples done with int std / B  
the std was brought up to 2.2 cc c  
H<sub>2</sub>O so no water correction was made

	CPM	CPM - Bkg	Sample + Int. Std	T-S corrected	T-S, 10043	(G) corrected for quenching
A -	832	10069	19056	20,142	<del>10,142</del>	10431
B	836	6635	16048	16,963	9382	17366
C	737	6086	15281	16,152	10,028	6237
D	741	8015	17153	18,131	10,178	8160
E	873	5968	15298	16,170	10,264	6020
F	821	7825	17013	17,982	10,219	7934
G	882	6508	15934	16,842	10,334	6522
H	885	6134	15274	16,145	10,011	6347
I	895	8622	17659	18,666	10,044	8900
J	916	7812	16980	17,948	10,136	7991
K	928	8556	17565	18,566	10,010	8866
L	822	6555	15618	16,508	9,953	6824
M	960	10,078	18951	20,031	9,953	10,500
N	932	9638	18640	19,702	10,064	9934
O	938	11,535	20,481	21,648	10,113	11,838
P	942	9283	18446	19,497	10,214	9428
Q	959	7886	17024	17,994	10,108	8091
R	1007	6106	15250	16,119	10,013	6312
S	1043	9997	19429	20,536	10,539	9846
T	1501	5937	12548	13,263	7,326	
U		1958 (X3-33)	6417	11,504	12,160	10,202
V	Bkg	31	28			6545
W*	std	19,425	9,847	10,408		
X	std		10,351			
N	std		10,440			

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\* same ppt as used to prepare patient dose  
\* brought up to 2.2cc H<sub>2</sub>O = det 140

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(2) Dr. Meyer's patients Int std method

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Subject #	Ratio Std cty-dry subject cty-dry	Ratio x 2.5 x 10 <sup>4</sup>	TBW in L	L x 0.985 L unaccounted to Kg	% H <sub>2</sub> O Kg H <sub>2</sub> O Kg body wt	wt. 1 % Fat 100 - $\frac{\% H_2O}{0.72}$
222	0.585	38,125	38.12 L	37.55	68.84	-95.11
32	0.998	24,950		24.58	53.01	73.62
36	1.413	35,325		34.80	61.74	85.75
32	1.669	41,725		41.10	62.15	86.31
41	1.275	31,875		31.40	46.99	65.26
73	1.727	43,225		42.58	69.39	96.37
21	1.312	32,500		32.31	47.07	65.37
32	1.516	39,400		39.30	71.75	99.65
25	1.640	41,000		40.38	65.30	90.69
25	1.157	29,225		28.79	51.50	71.52
916	1.322	32,550		32.06	50.38	69.97
28	1.174	29,350		28.91	50.48	70.11
32	1.048	26,200		25.81	55.74	77.41
38	0.379	21,975		21.64	54.10	75.13
42	1.104	27,600		27.19	47.10	65.41
59	1.286	32,150		31.67	52.78	73.36
60	0.990	24,750		24.38	63.11	87.65
1007	1.649	41,225		40.607	56.90	79.02
1043	1.057	26,425		26.03	62.25	86.45
1501	1.590	39,750		39.15	61.96	86.05

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