



UNIVERSITY OF MINNESOTA
TWIN CITIES

Laboratory of Physiological Hygiene
School of Public Health
Stadium Gate 27
Minneapolis, Minnesota 55455

June 27, 1974

Staff memos.

MEMO TO: Art Leon

FROM: Henry Blackburn ✓

We are still refining this idea of how best to interpret an individual's cholesterol change. I would appreciate your finding (J. T. A. could help) some intra-individual standard deviation of cholesterol level for different absolute levels. In other words, I'm assuming the variance is less with lower levels, etc., and we may or may not want to refine this chart for our nutritionists. I also want Jean and Dave to consider how a "true mean" baseline level (2 determinations) would influence these probabilities of 1 or multiple subsequent Serum Cholesterol values.

p. c. : J. Canner
D. Jacobs
N. Foster

<u>Absolute Difference (Change)</u>	<u>Probability % (*)</u>	<u>Interpretation of Cholesterol Change</u>		
		<u>Sign of Difference (Baseline minus Subsequent value)</u>		
0	100.00		+	-
1	96.01			
2	92.03			
3	88.07			
4	84.14			
5	80.25	Probably	Unchanged	Unchanged
6	76.42			
7	72.63			
8	68.91			
9	65.27			
10	61.71			
11	58.23			
12	54.85			
13	51.56			
14	48.39			
15	45.32			
16	42.37			
17	39.53			
18	36.81			
19	34.21			
20	31.73			
21	29.37			
22	27.13			
23	25.01			
24	23.01			
25	21.13			
26	19.36	Possibly	Down	Up
27	17.70			
28	16.15			
29	14.70			
30	13.35			
31	12.11			
32	10.95			
33	9.89			
34	8.91			
35	8.01			
36	7.18	Probably	Down	Up
37	6.43			
38	5.74			
39	5.12			
40	4.55			
41	4.04			
42	3.57			
43	3.16			
44	2.78			
45	2.44			
46	2.14	Almost		
47	1.87	Certainly	Down	Up
48	1.64			
49	1.42			
50	1.24			
↓	↓			
100	0.00			

(*) Probability that an observed change in a U.S. person's cholesterol level was due to chance in percent, based on an average intra-individual variability (standard deviation) of 20 mg.%, and a comparison between two readings. Means of repeat readings would tend to reduce the probability and make smaller cholesterol differences more significant. Also a given change is somewhat more significant for those with relatively low than high cholesterol levels due to their lower variability.



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January 31, 1974

To: N. Foster and N. Yokanovich

From: H. Blackburn

- 1) Congratulations on gradual improvement all round in the appearance of the lab.
- 2) Let's push ahead to get it really neat by the time people start coming in.
- 3) Any progress on the travel posters I requested.
- 4) Check with progress on photo exhibits of LRC and HDFP.
- 5) Apparently our furniture refurbishing stopped before completion. Continue!
 - a) Desk and Chair in Nutrition room;
 - b) Paco's chair, etc.
- 6) Hope new tables and storage are ordered for large treadmill. I want it ship-shape by March 1.
- 7) Please remove resuscitation list in large treadmill room and put up a small, boldly-lettered but less obvious list composed by Dr. Crow.
- 8) Congrats on new controls in small treadmill room. Could we paint over that wall?
- 9) Please remove treadmill conversion chart from that wall and have Fred do a new one and mount it properly.
- 10) Mercury still needs changing and calibration in the wall mounted BP device in the small treadmill room.
- 11) Did our new X-ray viewbox arrive?
- 12) Please check old memos for things not yet done, especially names on new lab rooms.
- 13) Nedra: Where can we put Dr. Jacobs in new lab? Should be near data processing and Jean and Mollie.
- 14) Paint base of recliner chairs in Visit I units.
- 15) Add MRFIT to directional arrows.
- 16) Buy some poster cardboard so we don't have to use the reverse side of a rock concert ad, please.

H.B.

HEALTH SCIENCES