

Linoleate deficiency in rats - measurement of carbon recycling from linoleate and a comparison with essential fatty acid deficiency.

National Library of Canada - Increasing dietary linoleic acid in young rats increases and then decreases docosahexaenoic acid in retina but not in brain

Table 2																	
Number of Rats	Dietary condition	Arachidonic acid concentration (%)		Arachidone Palmitoleate ratio		Arachidone Palmitate ratio		Palmitoleate Palmitate ratio		Palmitoleate Docosahexaenoate ratio							
		Control	Linoleate deficient	Control	Linoleate deficient	Control	Linoleate deficient	Control	Linoleate deficient	Control	Linoleate deficient	Control	Linoleate deficient	Control	Linoleate deficient	Control	Linoleate deficient
4	10	21.0	20.8	1.0	0.9	7.9	7.9	10.3	10.8	1.0	1.0	11.0	11.0	1.0	1.0	1.0	1.0
5	10	27.8	27.8	2.4	2.1	2.0	1.8	10.1	12.8	2.0	2.0	1.7	1.9	1.7	1.7	1.8	1.8
7	10	16.0	17.4	1.0	0.9	7.8	8.2	1.9	1.9	7.8	7.8	1.7	1.6	1.7	1.6	1.6	1.7
10	8	15.4	16.1	1.0	2.0	6.7	6.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11	7	14.1	16.3	1.0	2.1	6.3	6.3	17.4	17.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
12	4	21.1	19.8	2.0	4.1	3.1	2.6	10.3	10.3	2.0	2.0	1.6	1.6	1.6	1.6	1.6	1.6
14	5	24.8	27.0	1.0	0.4	4.1	4.6	17.8	17.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
25	7	8.6	9.7	1.0	0.8	5.0	5.0	12.8	12.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
27	10	17.2	18.4	2.0	0.1	3.0	3.1	10.7	10.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
28	15	40.0	41.6	2.0	0.1	1.0	0.9	10.4	10.2	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
30	20	18.9	20.1	2.0	3.1	2.0	2.0	10.4	11.1	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.7
32	10	26.1	27.1	1.0	0.3	4.3	4.3	17.4	17.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Mean	10	19.9	20.0	1.1	0.6	4.2	4.2	17.8	17.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	10	1.1	1.0	0.1	0.4	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	11	11.9	11.9	1.0	0.1	4.8	4.8	10.3	10.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	11	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	12	19.9	19.9	2.0	2.0	1.0	1.0	17.8	17.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	12	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	14	24.8	27.0	1.0	0.1	4.1	4.6	17.8	17.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	14	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	25	8.6	9.7	1.0	0.8	5.0	5.0	12.8	12.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	25	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	27	17.2	18.4	2.0	0.1	3.0	3.1	10.7	10.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	27	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	28	40.0	41.6	2.0	0.1	1.0	0.9	10.4	10.2	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	28	2.0	2.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	30	18.9	20.1	2.0	3.1	2.0	2.0	10.4	11.1	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.7
SD	30	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	32	26.1	27.1	1.0	0.3	4.3	4.3	17.4	17.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	32	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	34	11.9	11.9	2.0	2.0	1.0	1.0	17.8	17.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	34	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	35	8.6	9.7	1.0	0.8	5.0	5.0	12.8	12.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	35	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	36	24.8	27.0	1.0	0.1	4.1	4.6	17.8	17.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	36	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	37	17.2	18.4	2.0	0.1	3.0	3.1	10.7	10.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	37	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	38	40.0	41.6	2.0	0.1	1.0	0.9	10.4	10.2	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	38	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	39	18.9	20.1	2.0	3.1	2.0	2.0	10.4	11.1	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.7
SD	39	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	40	26.1	27.1	1.0	0.3	4.3	4.3	17.4	17.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	40	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	41	11.9	11.9	2.0	2.0	1.0	1.0	17.8	17.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	41	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	42	17.2	18.4	2.0	0.1	3.0	3.1	10.7	10.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	42	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	43	40.0	41.6	2.0	0.1	1.0	0.9	10.4	10.2	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	43	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	44	18.9	20.1	2.0	3.1	2.0	2.0	10.4	11.1	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.7
SD	44	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	45	26.1	27.1	1.0	0.3	4.3	4.3	17.4	17.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	45	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	46	11.9	11.9	2.0	2.0	1.0	1.0	17.8	17.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	46	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	47	17.2	18.4	2.0	0.1	3.0	3.1	10.7	10.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	47	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	48	40.0	41.6	2.0	0.1	1.0	0.9	10.4	10.2	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	48	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	49	18.9	20.1	2.0	3.1	2.0	2.0	10.4	11.1	2.0	2.0	1.7	1.7	1.7	1.7	1.7	1.7
SD	49	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	50	26.1	27.1	1.0	0.3	4.3	4.3	17.4	17.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	50	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	51	11.9	11.9	2.0	2.0	1.0	1.0	17.8	17.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SD	51	1.0	1.0	0.1	0.1	1.0	1.0	1.0	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Mean	52	17.2	18.4	2.0	0.1	3.0	3.1	10.7	10.7	1.0	1.0	1.0	1.0	1.0	1.		

Furthermore, demonstrated that the type of dietary fat influences the effects of zinc deficiency on fatty acid composition of liver lipids. European Journal of Clinical Nutrition, 48, 866—872.

Carbon recycling into de novo lipogenesis is a major pathway in neonatal metabolism of linoleate and α

Diets with unspecified 22:6 from maternal sources or high proportions of trans-fats were excluded from the analysis. In this study, a 2×2 design was used to manipulate dietary zinc and EFA composition, and a fifth suckled control group was included. This study examined the essential fatty acid status of patients on long-term HTPN for gut failure.

Carbon recycling into de novo lipogenesis is a major pathway in neonatal metabolism of linoleate and α

The authors also introduced the polar fraction at 0. In the Budowski et al.

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