

Appendix - 5 : Individual data on changes in protein and CNP with age.

rat no.	body weight (g)	brain weight (g)	protein (mg/g)		CNP (muoles/min/mg protein)	
			GM	WM	GM	WM
1	2	3	4	6	6	7
14 days old						
1	36	1.405	78	84	3.1	20.6
2	34	1.352				
3	33	1.295				
4	35	1.341				
5	36	1.367	85	78	3.2	20.6
6	36	1.385				
7	34	1.655				
8	36	1.360	82	76	2.8	20.3
9	34	1.384				
10	34	1.415				
11	37	1.445	86	89	2.8	19.8
16 days old						
12	42	1.511				
13	37	1.442			77	2.7
14	38	1.425				23.0

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Appendix - 5 : contd.

	1	2	3	4	5	6	7
15	39	1.442	93	76	2.8	18.6	
16	41	1.462					
17	36	1.385					
18	41	1.443					
19	37	1.447	93	88	2.9	18.6	
20	39	1.488					
21	38	1.483					
22	41	1.504					
<u>18 days old</u>							
23	51	1.480					
24	46	1.425	95	91	3.0	20.5	
25	47	1.450					
26	46	1.435					
27	51	1.482					
28	50	1.473					
29	52	1.500	90	90	2.8	20.3	
30	30	1.500					
31	53	1.490					
32	57	1.535					

cont d... .

## Appendix - 5 : contd.

	1	2	3	4	5	6	7
<u>21 days old</u>							
33	53	1.482	105	101	2.7	16.9	
34	51	1.476					
35	52	1.460					
36	62	1.520	101	108	2.5	21.0	
37	60	1.496					
38	64	1.525					
39	64	1.562	92	101	2.7	21.3	
40	65	1.570					
41	60	1.548	90	103	2.8	21.3	
42	68	1.575					
<u>30 days old</u>							
43	135	1.810	96	102	3.3	19.2	
44	145	1.505					
45	118	1.652	93	94	3.3	18.9	
46	132	1.785					
47	130	1.740	102	103	2.9	21.1	
48	131	1.745					

cont d...

## Appendix - 5 : contd.

	1	2	3	4	5	6	7
49	135	1.810	106	96	3.0	19.1	
50	116	1.662					
<u>Godoy &amp; dB</u>							
51	245	1.852	99	95	3.5	20.9	
52	253	1.932					
53	242	1.837	100	97	3.6	20.4	
54	247	1.871					
55	240	1.860	101	93	3.5	20.8	
56	267	1.975					
57	260	1.955	98	93	3.1	20.4	
58	250	1.888					
<u>90 days old</u>							
59	315	1.300	105	96	3.7	18.6	
60	318	1.907					
61	296	1.780	102	94	3.5	17.6	
62	327	1.995					
63	334	2.118	103	94	3.4	19.6	
64	306	1.860					
65	324	2.013	105	96	3.1	19.4	
66	323	1.952					

Appendix - 5(a) : Individual data on protein and CNP with undernutrition.

rat no.	body weight (g)	brain weight (g)	protein (mg/g)			CNP (umoles/min/mg protein)		
			total homogenate		total homogenate	GM		WM
			GM	WM		GM	WM	
1	2	3	4	5	6	7	8	9
67	42		1.420					
68	41		1.410		111	95	3.6	21.5
69	43		1.440					
70	46		1.465					
71	42		1.460					
72	43		1.523		113	93	5.8	24.8
73	43		1.510					
74	42		1.450					
75	43		1.442					
76	47		1.514		102	85	4.8	24.5
77	44		1.411					
78	41		1.430					
79	42		1.491					
80	44		1.468		107	97	3.7	20.5
81	42		1.443					

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Appendix - 5(a) : contd.

	1	2	3	4	5	6	7
82	15.0	1.067					
83	14.0	1.132	1.03	99		2.94	10.3
84	14.0	1.185					
85	14.0	1.001					
86	12.5	1.103	1.06	94		2.70	11.9
87	13.0	1.022					
88	10.5	1.140					
89	11.0	1.133	1.03	88		2.98	13.6
90	13.0	1.102					

Appendix - 5(b) : Individual data on protein and GMP with thiamine deficiency.

rat no.	body weight (g)	tissue weight		protein (mg/g)		GMP (umoles/min/mg protein)		transketolase (umoles/g/h)	
		brain (g)	sp.cord (wg)	brain (g)	sp.cord (wg)	brain	sp.cord	brain	sp.cord
1	2	3	4	5	6	7	8	9	10
CONTROL (C) GROUP									
91	50	1.454	185	110	101	-	6.14	25.5	25.3
92	45	1.480	155	123	121	7.44	4.64	27.0	28.4
93	46	1.370	176	130	124	7.30	4.40	24.0	28.0
94	57	1.460	170	128	113	7.58	5.50	33.0	20.9
95	40	1.400	150	112	113	7.86	5.13	30.7	23.2
96	49	1.460	155	124	110	7.64	5.39	27.0	31.5
97	53	1.470	165	131	119	7.04	5.19	-	22.5
98	53	1.480	175	-	113	-	5.42	30.4	24.1
PAIR-FED CONTROL (PFC) GROUP									
99	20.0	1.165	125	126	109	7.06	5.62	26.1	22.5
100	49.0	1.225	125	115	94	6.66	6.26	31.1	24.9
101	48.5	1.180	121	118	121	7.52	5.02	24.8	23.0
102	48.5	1.170	120	110	116	7.38	5.36	25.2	20.3

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Appendix - 5(b) : contd.

rat no.	body weight (g)	brain weight (g)	protein (mg/g)	THIAMINE DEFICIENT (TD) GROUP					CONTROL (C) GROUP				
				GM	WM	GM	WM	GM	WM	GM	WM	GM	WM
1	2	3	4	5	6	7	8	9	10	11	12	13	14
103	18.0	1.000	100	120	111	7.46	-	-	-	17.7	12.4	-	-
104	13.0	1.010	104	128	108	6.78	4.72	-	-	10.2	16.2	-	-
105	16.0	1.045	113	128	110	6.52	5.80	-	-	5.89	12.7	-	-
106	15.0	1.065	110	123	101	7.54	5.26	-	-	10.4	16.4	-	-
107	18.0	1.115	113	115	98	7.64	6.24	-	-	17.7	15.6	-	-
108	17.5	1.050	105	118	96	7.94	6.04	-	-	11.7	14.2	-	-
109	12.0	0.960	85	121	103	7.50	5.74	-	-	17.7	12.0	-	-
110	16.0	1.108	100	-	112	-	-	-	-	5.14	6.74	4.58	-
111	46	1.452	107	106	3.40	22.3	-	-	-	19.0	22.5	-	-
112	44	1.415	-	-	-	-	-	-	-	-	-	-	-

contd. . .

Appendix - 5(b) : contd.

	1	2	3	4	5	6	7	8	9
113	46	1.470	118	116	3.00	20.0	-	-	23.0
114	50	1.430	-	-	-	-	-	-	-
115	52	1.429	122	116	3.40	20.4	15.2	22.8	
116	51	1.435	-	-	-	-	-	-	-
117	45	1.397	121	120	-	20.6	19.8	21.3	
118	42	1.355	-	-	-	-	-	-	-
			<u>PAIR FED CONTROL (PFC) GROUP</u>						
119	48	1.210	110	109	3.51	19.4	15.5	17.0	
120	20	1.205	-	-	-	-	-	-	-
121	17	1.183	124	114	2.86	20.4	19.0	16.6	
122	20	1.210	-	-	-	-	-	-	-
			<u>THIAMINE DEFICIENT (TD) GROUP</u>						
123	13	1.095	120	111	2.92	20.9	7.05	7.06	
124	17	1.175	-	-	-	-	-	-	-
125	15	1.087	123	117	2.86	20.7	5.30	10.8	
126	14	1.075	-	-	-	-	-	-	-
127	16	1.115	118	111	3.52	22.4	7.05	8.03	
128	19	1.205	-	-	-	-	-	-	-