

## **S2-Table: Individual data sets for Fig 1-4 and Oxidative/nitrosative stress indices**

**Fig 1: Individual PCR data for SREBP1 expression (Relative to Control –normal Mg)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1.21	1.65	4.0	6.2	1.4	1.29	1.2	1.3
1.18	1.52	2.6	5.1	1.2	1.16	1.0	0.9
0.85	1.25	2.2	3.9	0.96	1.05	0.6	0.5
0.76	1.18	2.0	3.7	0.8	.79	0.4	0.3
	1.07	1.8	2.8		.76		0.2

**Fig 2 Individual lipid data for Triglyceride and Cholesterol levels (mg/dL)**

<u>Normal Mg diet Triglyceride</u>				<u>High Mg diet Triglyceride</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
72	82	89	104	71	81	81	88
65	76	88	99	69	72	75	69
59	64	71	92	51	59	68	65
52	60	79	85	49	61	61	75
	58	70	82		56	55	54

<u>Normal Mg diet Cholesterol</u>				<u>High Mg diet Cholesterol</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
79	95	94	119	82	94	88	90
76	88	89	116	79	88	77	93
61	71	83	106	71	74	68	72
59	63	70	98	61	60	61	69
		68	95	58	57	53	

**Fig 3: (A) PCR data for Nrf2 expression (Relative to Control-normal Mg)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1.1	1.16	0.67	0.3	1.28	2.4	3.8	1.7
1.07	0.98	0.63	0.27	1.16	2.2	2.9	1.3
0.95	0.82	0.45	0.19	0.92	1.8	2.2	0.9
0.88	0.7	0.41	0.16	0.86	1.6	1.4	0.5
	0.6				1.3	1.2	0.4

**(B) PCR data for HmOX-1 expression (Relative to Control-normal Mg)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1	1.1	5.1	2.1	1.45	1.01	0.8	1.4
1.13	0.8	4.8	1.1	1.35	0.72	1.4	1.6
0.87	1.33	3.7	1.4	1.2	1.2	1.9	2.6
1.0	1.1	5.3		0.9	1.		2.0

**(C) PCR data for GST expression (Relative to Control-normal Mg)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1.3	1.0	3.35	0.8	1.25	1.855	2.0	2.9
0.8	1.1	2.2	2.0	0.9	1.2	1.45	2.5
1.0	1.7	3.0	0.9	0.70	0.85	2.7	2.0
0.9			1.7				1.1

**Fig 4: PCR data for iNOS and TNF-alpha expression (Relative to Control-normal Mg)**

Normal Mg diet (iNOS)				High Mg diet (iNOS)			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1.29	1.35	3.2	4.3	1.25	1.4	2.0	2.1
1.15	1.27	2.7	3.5	1.13	1.33	1.8	1.75
0.82	1.13	1.9	3.1	0.87	0.86	1.2	1.1
0.72	1.1	1.8	2.2	0.67	0.5	0.9	1.05
		2.2					

Normal Mg diet (TNF-alpha)				High Mg diet (TNF-alpha)			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1.3	1.85	3.9	5.8	1.39	1.28	1.6	1.3
1.15	1.2	3.7	5.3	1.29	1.1	1.0	1.2
0.95	1.07	2.9	3.7	1.3	0.8	1.5	0.67
0.8	0.98	2.2	4.3	0.9	0.65	1.1	0.5
0.75				0.72			

## Data sets for S-Table 1 Oxidative and Nitrosative stress Indices

### **(A) 8-Isoprostane levels (pg/ml)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
67	86	120	174	67	51	102	102
57	77	110	197	60	81	61	91
49	69	90	129	39	75	71	81
41	63	72	150	45	50	88	73
41	55	68	95	40	38	68	62

### **(B) GSSG/Total Glutathione (%)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
3.9	4.5	6	9.8	3.9	4.9	4.8	6.5
3.5	4.3	5.2	8.5	2.9	4.3	4.4	5.5
3.0	3.6	4.1	7.8	2.5	2.9	3.8	4.6
2.7	3.7	4.5	7	1.9	1.8	3.4	3.9
2.3		4.8	6.2	1.7		3.1	3.1

### **(C) Plasma 3-Nitrotyrosine levels (ng/ml)**

<u>Normal Mg diet</u>				<u>High Mg diet</u>			
<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>	<u>Ctl</u>	<u>+cART</u>	<u>Tg</u>	<u>Tg+cART</u>
1.9	2.8	2.6	5.1	1.3	1.7	1.05	1.9
1.8	1.6	2.2	4.5	1.1	1.4	1.5	1.7
0.75	1.3	1.3	3.1	0.9	1.0	1.02	0.9
0.6	0.7	1.2	2.5	0.7	0.8	1.33	0.7