

Table S1. Markers of oxidative stress in the 1st trimester of pregnancy, at delivery and umbilical cord blood in mothers whose children had been diagnosed in the 1st or the 2nd year of life with atopic dermatitis, food allergy or wheezing and healthy children (t test).

	Healthy Children 1 st Year	Healthy Children 2 nd Year	Atopic Dermatitis 1 st Year	Atopic Dermatitis 2 nd Year	Atopic Dermatitis 1 st and 2 nd Year	Healthy Children 1 st Year	Healthy Children 2 nd Year	Food Allergy 1 st Year	Food Allergy 2 nd Year	Food Allergy 1 st and 2 nd Year	Healthy Children 1 st Year	Healthy Children 2 nd Year	Wheezing 1 st Year	Wheezing 2 nd Year	Wheezing 1 st and 2 nd Year
B-carotene, µg/ml															
Mean ± SD															
1st trimester	0.25 ± 0.18	0.25 ± 0.18	0.30 ± 0.20	0.27 ± 0.19	0.33 ± 0.23	0.26 ± 0.18	0.26 ± 0.18	0.29 ± 0.20	0.23 ± 0.19	0.29 ± 0.22	0.23 ± 0.18	0.26 ± 0.19	0.23 ± 0.15	0.21 ± 0.12	0.24 ± 0.10
Delivery	0.32 ± 0.22	0.33 ± 0.22	0.37 ± 0.23	0.35 ± 0.22	0.40 ± 0.26	0.36 ± 0.22	0.33 ± 0.22	0.33 ± 0.22	0.33 ± 0.22	0.37 ± 0.28	0.36 ± 0.23	0.33 ± 0.22	0.33 ± 0.19	0.35 ± 0.20	0.46 ± 0.15
Cord blood	0.05 ± 0.05	0.05 ± 0.05	0.05 ± 0.04	0.05 ± 0.04	0.06 ± 0.05	0.06 ± 0.05	0.05 ± 0.04	0.05 ± 0.04	0.05 ± 0.04	0.06 ± 0.05	0.05 ± 0.05	0.05 ± 0.04	0.06 ± 0.06	0.04 ± 0.02	0.06 ± 0.02
Vitamin A, ug/ml															
Mean ± SD															
1st trimester	0.96 ± 0.28	0.98 ± 0.28	0.92 ± 0.27	0.81 ± 0.20 <i>p</i> < 0.001	0.78 ± 0.23	0.94 ± 0.28	0.98 ± 0.27	0.96 ± 0.25	0.86 ± 0.22 <i>p</i> < 0.04	0.84 ± 0.25	0.94 ± 0.27	0.95 ± 0.27	0.96 ± 0.28	0.97 ± 0.30	0.99 ± 0.30
Delivery	0.91 ± 0.34	0.92 ± 0.34	0.83 ± 0.31	0.73 ± 0.25 <i>p</i> < 0.004	0.70 ± 0.27	0.86 ± 0.32	0.92 ± 0.35	0.83 ± 0.32	0.84 ± 0.28	0.73 ± 0.26	0.87 ± 0.33	0.90 ± 0.34	0.83 ± 0.25	0.885 ± 0.34	0.74 ± 0.17
Cord blood	0.58 ± 0.20	0.59 ± 0.20	0.52 ± 0.22	0.45 ± 0.20 <i>p</i> < 0.001	0.42 ± 0.19	0.57 ± 0.20	0.57 ± 0.20	0.53 ± 0.22	0.52 ± 0.23	0.46 ± 0.24	0.57 ± 0.21	0.56 ± 0.21	0.54 ± 0.15	0.569 ± 0.19	0.49 ± 0.09
Vitamin E, ug/ml															
Mean ± SD															
1st trimester	8.50 ± 3.63	8.73 ± 3.63	9.73 ± 3.56	8.23 ± 3.70	8.97 ± 4.00	8.67 ± 3.56	8.55 ± 3.53	9.42 ± 3.48	9.34 ± 4.63	9.87 ± 4.18	8.79 ± 3.64	8.50 ± 3.75	9.57 ± 3.59	9.09 ± 3.97	8.83 ± 3.60
Delivery	12.17 ± 6.57	12.51 ± 6.58	16.00 ± 5.85 <i>p</i> < 0.022	12.92 ± 6.37	14.12 ± 6.42	13.58 ± 6.50	12.28 ± 6.65	11.80 ± 6.55	13.99 ± 6.04	13.56 ± 6.55	13.48 ± 6.44	12.01 ± 6.89	13.67 ± 6.47	14.43 ± 4.71	14.61 ± 3.15
Cord blood	3.40 ± 2.13	3.43 ± 2.12	3.96 ± 2.14	3.76 ± 2.28	4.35 ± 2.55	3.80 ± 2.20	3.24 ± 1.77	3.44 ± 1.99	3.83 ± 2.35	3.91 ± 2.50	3.69 ± 2.03	3.31 ± 1.99	4.65 ± 3.24	3.48 ± 1.32	4.42 ± 1.32

p—statistically significance as compared with healthy children.

Table S2. Markers of oxidative stress in the 1st trimester of pregnancy, at delivery and umbilical cord blood in smoking and non-smoking mothers whose children had been diagnosed in the 1st or the 2nd year of lifetime with atopic dermatitis, food allergy or wheezing and healthy children (t test).

	Healthy Children 1 st Year	Healthy Children 2 nd Year	Atopic Dermatitis 1 st Year	Atopic Dermatitis 2 nd Year	Healthy children 1 st Year	Healthy Children 2 nd Year	Food Allergy 1 st Year	Food Allergy 2 nd Year	Healthy Children 1 st Year	Healthy Children 2 nd Year	Wheezing 1 st Year	Wheezing 2 nd Year
B-carotene, µg/ml												
Mean ± SD												
Non-smokers												
1st trimester	0.25 ± 0.18	0.26 ± 0.19	0.39 ± 0.21	0.32 ± 0.17	0.23 ± 0.16	0.23 ± 0.16	0.36 ± 0.22	0.30 ± 0.19 <i>p</i> < 0.02	0.27 ± 0.19	0.29 ± 0.20	0.27 ± 0.19	0.19 ± 0.07
Delivery	0.34 ± 0.25	0.34 ± 0.25	0.42 ± 0.26	0.42 ± 0.20	0.36 ± 0.25	0.34 ± 0.25	0.43 ± 0.25	0.43 ± 0.22	0.37 ± 0.26	0.36 ± 0.26	0.37 ± 0.26	0.35 ± 0.19
Cord blood	0.06 ± 0.05	0.06 ± 0.05	0.05 ± 0.03	0.05 ± 0.02	0.06 ± 0.06	0.05 ± 0.04	0.05 ± 0.03	0.06 ± 0.03	0.06 ± 0.05	0.06 ± 0.04	0.06 ± 0.05	0.05 ± 0.02
Active or passive smokers during pregnancy												
1st trimester	0.24 ± 0.18	0.24 ± 0.18	0.25 ± 0.17	0.23 ± 0.17	0.30 ± 0.20 <i>p</i> < 0.02 *	0.24 ± 0.16	0.25 ± 0.20	0.15 ± 0.08 <i>p</i> < 0.014 *	0.27 ± 0.18	0.24 ± 0.17	0.22 ± 0.11	0.22 ± 0.14
Delivery	0.31 ± 0.19	0.32 ± 0.20	0.36 ± 0.21	0.29 ± 0.19	0.40 ± 0.25	0.36 ± 0.27	0.25 ± 0.20 <i>p</i> < 0.03	0.19 ± 0.14 <i>p</i> < 0.05 <i>p</i> < 0.02 *	0.34 ± 0.20	0.30 ± 0.19	0.32 ± 0.18	0.36 ± 0.21
Cord blood	0.04 ± 0.04	0.05 ± 0.04	0.06 ± 0.05	0.05 ± 0.05	0.05 ± 0.04	0.05 ± 0.04	0.04 ± 0.04	0.05 ± 0.05	0.05 ± 0.04	0.05 ± 0.05	0.04 ± 0.02	0.04 ± 0.02
Vitamin A, ug/ml												
Mean ± SD												
Non-smokers												
1st trimester	1.01 ± 0.31	0.99 ± 0.30	0.83 ± 0.27	0.82 ± 0.21 <i>p</i> < 0.004	0.99 ± 0.31	0.97 ± 0.29	0.96 ± 0.26	0.98 ± 0.23	0.95 ± 0.29	0.96 ± 0.29	1.08 ± 0.26	0.94 ± 0.38
Delivery	0.20 ± 0.37	0.94 ± 0.36	0.72 ± 0.35	0.76 ± 0.23 <i>p</i> < 0.02	0.92 ± 0.35	0.98 ± 0.39	0.91 ± 0.36	0.83 ± 0.28	0.93 ± 0.35	0.95 ± 0.38	0.74 ± 0.28	0.83 ± 0.49
Cord blood	0.59 ± 0.20	0.59 ± 0.20	0.47 ± 0.28	0.47 ± 0.20 <i>p</i> < 0.008	0.60 ± 0.22	0.58 ± 0.20	0.53 ± 0.23	0.49 ± 0.27	0.59 ± 0.23	0.57 ± 0.22	0.52 ± 0.14	0.48 ± 0.17
Active or passive smokers during pregnancy												
1st trimester	0.93 ± 0.25	0.96 ± 0.26	0.93 ± 0.28	0.79 ± 0.20	0.91 ± 0.25	0.83 ± 0.24	0.95 ± 0.25	0.92 ± 0.45	0.94 ± 0.24	0.94 ± 0.25	0.81 ± 0.25* <i>p</i> < 0.03	0.98 ± 0.27

Delivery	0.87 ± 0.29	0.91 ± 0.30	0.84 ± 0.30	0.64 ± 0.29 <i>p</i> < 0.04	0.82 ± 0.28	0.90 ± 0.30	0.79 ± 0.30	0.85 ± 0.29	0.81 ± 0.29	0.87 ± 0.31	0.88 ± 0.23	0.91 ± 0.26
Cord blood	0.58 ± 0.19	0.60 ± 0.39	0.51 ± 0.19	0.39 ± 0.20 <i>p</i> < 0.008	0.55 ± 0.19	0.58 ± 0.19	0.53 ± 0.21	0.54 ± 0.21	0.55 ± 0.20	0.56 ± 0.20	0.56 ± 0.17	0.61 ± 0.19
Vitamin E, ug/ml												
Mean ± SD												
Non-smokers												
1st trimester	7.98 ± 3.67	8.22 ± 3.65	9.67 ± 3.75	8.16 ± 4.12	8.22 ± 3.58	8.09 ± 3.91	9.26 ± 3.77	10.07 ± 5.10	8.33 ± 3.63	8.39 ± 4.12	9.207 ± 3.91	7.93 ± 4.13
Delivery	11.68 ± 6.66	11.75 ± 6.63	15.65 ± 4.80 <i>p</i> < 0.006	14.64 ± 4.51	13.03 ± 6.70	11.83 ± 6.83	13.89 ± 6.56	15.78 ± 5.01 <i>p</i> < 0.03	11.77 ± 6.76	12.25 ± 7.07	16.18 ± 4.94 <i>p</i> < 0.006	12.41 ± 3.81
Cord blood	3.61 ± 2.57	3.62 ± 2.59	4.03 ± 1.30	3.74 ± 1.28	3.93 ± 2.61	3.27 ± 1.73	3.70 ± 1.65	3.79 ± 1.46	3.65 ± 2.19	3.34 ± 1.71	6.58 ± 4.02	3.45 ± 1.57
Active or passive smokers during pregnancy												
1st trimester	9.30 ± 3.46	9.45 ± 3.51	9.84 ± 3.34 <i>p</i> < 0.04 **	8.46 ± 2.18	9.37 ± 3.45	9.07 ± 3.32	9.72 ± 3.17	8.85 ± 4.38	9.55 ± 3.60	8.59 ± 3.46	10.02 ± 3.31	9.58 ± 3.91
Delivery	12.70 ± 6.48	13.26 ± 6.47	15.07 ± 6.50	11.71 ± 6.72	14.67 ± 6.05	12.99 ± 6.33	9.59 ± 6.36 <i>p</i> < 0.01	11.39 ± 6.70	12.90 ± 6.27	11.29 ± 6.48	13.22 ± 7.01	16.45 ± 4.80 <i>p</i> < 0.02
Cord blood	3.24 ± 1.73	3.30 ± 1.69	4.16 ± 2.53	3.77 ± 2.83	3.71 ± 1.80	3.33 ± 1.85	3.30 ± 2.17	3.85 ± 2.79	3.73 ± 1.92	3.27 ± 2.19	3.15 ± 1.35	3.50 ± 1.21

p—statistically significance as compared with healthy children; * *p*— statistically significance as compared with non-smokers; ** *p* –statistically significant as compared with the non-tobacco smoke exposed women who had healthy children.