

Supplementary Table 1. Questions related to stressful life events and social support in the National Birth Defects Prevention Study.

1. Did you experience any serious relationship difficulties with your husband or partner or become separated or divorced?
2. Did you or your husband or partner have any serious legal or financial problems?
3. Were you or someone close to you a victim of abuse, violence, or crime? Remember you just have to indicate yes or no.
4. Did you or someone close to you have a serious illness or injury?
5. Did someone close to you die?
6. Could you count on anyone to provide you with emotional support such as talking over a problem or helping with a difficult decision, if you had needed it?
7. Could you count on anyone to provide you with help financially such as paying bills or providing food or clothes, if you had needed it?
8. Could you count on anyone to provide you with help with daily tasks such as grocery shopping, child care, or cooking, if you had needed it?

Note: Series of questions about occupation history and residence history were asked in separate sections of the questionnaire. From these questions we determined whether mothers moved or changed jobs during the periconceptual period.

Supplementary Table 2. Association of specific stressful life events with risks of birth defects, National Birth Defects Prevention Study, 2006-2009.*

Stress question	<u>Controls</u>	<u>NTD</u>		<u>CP</u>	<u>CLP</u>		<u>dTGA</u>		<u>TOF</u>		
	<u>No. Controls (total=2974)</u>	<u>No. Cases (total=552)</u>	<u>AOR (95% CI)</u>	<u>No. Cases (total=413)</u>	<u>AOR (95% CI)</u>	<u>No. Cases (total=797)</u>	<u>AOR (95% CI)</u>	<u>No. Cases (total=189)</u>	<u>AOR (95% CI)</u>	<u>No. Cases (total=311)</u>	<u>AOR (95% CI)</u>
Relationship difficulties	515 (17%)	121	1.4 (1.1-1.7)	84	1.2 (0.9-1.6)	163	1.2 (1.0-1.5)	33	1.0 (0.6-1.5)	56	1.1 (0.8-1.5)
Legal problems	416 (14%)	95	1.3 (1.0-1.7)	66	1.1 (0.9-1.5)	160	1.4 (1.2-1.8)	23	0.8 (0.5-1.2)	57	1.4 (1.1-2.0)
Violence, crime	215 (7%)	48	1.3 (0.9-1.8)	34	1.2 (0.8-1.7)	59	1.0 (0.7-1.3)	16	1.2 (0.7-2.0)	23	1.1 (0.7-1.7)
Serious illness	420 (14%)	86	1.2 (0.9-1.5)	62	1.1 (0.8-1.4)	114	1.0 (0.8-1.2)	29	1.0 (0.7-1.5)	40	0.9 (0.6-1.3)
Death	454 (15%)	82	0.9 (0.7-1.2)	63	1.0 (0.8-1.3)	125	1.0 (0.8-1.2)	29	1.0 (0.7-1.5)	42	0.9 (0.6-1.2)
Changed jobs	774 (26%)	151	1.1 (0.9-1.4)	89	0.8 (0.6-1.1)	220	1.1 (0.9-1.3)	41	0.8 (0.5-1.1)	85	1.1 (0.8-1.4)
Moved	524 (18%)	101	1.1 (0.9-1.4)	69	1.0 (0.7-1.3)	145	1.0 (0.8-1.3)	33	0.9 (0.6-1.4)	49	0.9 (0.6-1.2)

* Indices reflect number of questions that had a 'yes' response. Odds ratios were adjusted for maternal race-ethnicity, age, education, body mass index, smoking, drinking, and intake of vitamin supplements. Odds ratios are in **bold** if the CI excluded 1.0 before rounding

n.c. = not calculated

Supplementary Table 3. Association of stressful life events and social support in combination with risks of birth defects, National Birth Defects Prevention Study, 2006-2009.

<u>Stress & Social Support*</u>	<u>No. Controls</u>	<u>NTD</u>		<u>CP</u>		<u>CLP</u>		<u>dTGA</u>		<u>TOF</u>	
		<u>No. Cases</u>	<u>AOR (95% CI)</u>	<u>No. Cases</u>	<u>AOR (95% CI)</u>	<u>No. Cases</u>	<u>AOR (95% CI)</u>	<u>No. Cases</u>	<u>AOR (95% CI)</u>	<u>No. Cases</u>	<u>AOR (95% CI)</u>
Low stress, high support	2155	372	Reference	283	Reference	554	Reference	138	Reference	229	Reference
High stress, high support	79	18	1.4 (0.8, 2.5)	13	1.4 (0.7, 2.5)	30	1.4 (0.9, 2.2)	6	1.1 (0.4, 2.5)	8	0.9 (0.4, 2.0)
Low stress, low support	663	142	1.1 (0.9, 1.4)	100	1.1 (0.9, 1.4)	180	1.0 (0.8, 1.2)	37	1.0 (0.7, 1.5)	67	1.0 (0.7, 1.3)
High stress, low support	77	20	1.6 (0.9, 2.7)	17	1.6 (0.9, 2.9)	33	1.6 (1.0, 2.4)	8	1.5 (0.7, 3.3)	7	0.9 (0.4, 2.1)

* Women were designated as having low stress if the stressful life events index was 0-3 and high stress if it was 4-7; and as having low social support if the social support index was 0-2 and high support if it was equal to 3. Odds ratios were adjusted for maternal race-ethnicity, age, education, body mass index, smoking, drinking, and intake of vitamin supplements. Odds ratios are in **bold** if the CI excluded 1.0 before rounding.