



Supplemental Table 1

Descriptive statistics for daytime cortisol values and summary cortisol measures across pregnancy.

Cortisol	T1		T2	
	Mean	SD	Mean	SD
Waking	.365	.103	.406	.116
Waking +30min	.429	.113	.508	.136
Mid morning	.182	.083	.276	.073
Evening	.087	.037	.143	.056
CAR	2.56	3.12	3.14	3.23
Slope	-.477	.176	-.452	.199
AUCg	167	45.9	233	48.8

Note. T1 = 6-26 weeks gestation; T2 = 27-37 weeks gestation; SD = standard deviation; CAR = cortisol awakening response; AUCg = total cortisol output.

Supplemental Table 2

Models evaluating maternal cortisol at T1 as a mediator of the association between maternal ACEs and child internalizing and externalizing problems.

	CAR T1		Slope T1		AUCg T1		Internalizing Problems		Externalizing Problems	
	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>
Constant	6.35	.209	.191	.112	120.6	.078	71.2	<.001	57.2	<.001
ACEs	.512	.002	-.002	.560	1.03	.640	.785	.046	.188	.649
GA at T1	.054	.373	.001	.549	1.28	.119	.138	.333	-.151	.320
Waking Cortisol T1	-2.06	.314	-1.56	<.001	180.5	<.001	4.53	.745	29.1	.050
Prenatal Distress	.083	.780	-.009	.225	-5.57	.166	.571	.413	-.065	.930
Prenatal SLE	.437	.172	.002	.797	3.06	.479	.539	.472	-.600	.451
SES	.122	.748	-.003	.760	7.99	.120	-.542	.544	.505	.594
GA at Birth	-.106	.407	-.003	.329	-1.30	.452	-.633	.035	-.162	.610
Postnatal Distress	-.032	.912	.005	.430	1.82	.638	2.31	<.001	1.49	.036
Postnatal SLE	-.219	.337	.001	.905	2.55	.409	-.504	.347	1.05	.064
Infant Sex	-.545	.193	.014	.153	12.6	.026	1.15	.250	-2.20	.038
CAR T1	-	-	-	-	-	-	-.404	.016	-.159	.368
Slope T1	-	-	-	-	-	-	11.2	.138	17.7	.027
AUCg T1	-	-	-	-	-	-	.016	.231	-.008	.588

Note. T1 = 6-26 weeks gestation; ACEs = adverse childhood experiences; GA = gestational age; SLE = stressful life events; CAR = cortisol awakening response; AUCg = total cortisol output.

Supplemental Table 3

Model evaluating maternal cortisol at T2 as a mediator of the association between maternal ACEs and child internalizing and externalizing problems.

	CAR T2		Slope T2		AUCg T2		Internalizing Problems		Externalizing Problems	
	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>
Constant	9.79	.275	-.022	.939	131	.248	85.3	<.001	24.9	.227
ACEs	.424	.033	-.005	.416	1.12	.654	.862	.065	.467	.307
GA at T2	-.052	.818	.013	.064	5.11	.075	-.762	.150	.849	.103
Waking Cortisol T2	-.162	.937	-1.49	<.001	228	<.001	-3.34	.815	11.2	.427
Prenatal Distress	-.029	.929	-.006	.545	-7.90	.061	.882	.257	.310	.685
Prenatal SLE	.332	.361	-.018	.128	-5.63	.221	.752	.376	-.871	.296
SES	-.240	.566	-.009	.496	4.94	.351	-1.30	.184	.795	.410
GA at Birth	-.131	.378	-.006	.188	-3.97	.036	-.398	.255	-.143	.676
Postnatal Distress	.037	.909	-.003	.802	2.67	.510	2.17	.004	1.22	.095
Postnatal SLE	-.095	.709	.006	.445	2.74	.395	-.380	.520	.869	.136
Infant Sex	-.492	.293	-.003	.837	-.373	.950	3.09	.005	-1.17	.271
CAR T2	-	-	-	-	-	-	-.326	.055	.122	.462
Slope T2	-	-	-	-	-	-	3.45	.626	7.76	.265
AUCg T2	-	-	-	-	-	-	.018	.301	.004	.826

Note. T2 = 27-37 weeks gestation; ACEs = adverse childhood experiences; GA = gestational age; SLE = stressful life events; CAR = cortisol awakening response; AUCg = total cortisol output.

Supplemental Table 4

Models evaluating maternal cortisol at T1 as a moderator of the association between maternal ACEs and child internalizing and externalizing problems.

	Internalizing Problems						Externalizing Problems					
	CAR T1		Slope T1		AUCg T1		CAR T1		Slope T1		AUCg T1	
	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>
Constant	74.6	<.001	68.7	<.001	71.7	<.001	59.3	<.001	53.8	<.001	59.3	<.001
Cortisol T1	-.263	.235	9.99	.156	.012	.444	-.409	.082	9.93	.178	-.003	.855
ACEs	.861	.087	2.12	.022	-.231	.871	-.291	.583	2.07	.032	-.786	.600
ACEs*Cortisol	-.037	.713	3.24	.073	.005	.567	.172	.109	4.19	.027	.005	.560
GA at T1	.159	.265	.144	.315	.120	.409	-.106	.482	-.157	.294	-.164	.287
Waking Cortisol T1	-9.47	.053	12.5	.282	-12.3	.022	-2.34	.651	23.5	.053	-.260	.963
Prenatal Distress	.391	.570	.533	.444	.460	.516	.018	.981	.050	.945	-.154	.837
Prenatal SLE	.624	.406	.504	.500	.334	.662	-.597	.452	-.537	.492	-.720	.372
SES	-.395	.651	-.401	.651	-.615	.497	.241	.795	.509	.583	.363	.703
GA at Birth	-.678	.024	-.617	.040	-.621	.041	-.170	.591	-.157	.616	-.182	.569
Postnatal Distress	2.42	<.001	2.27	<.001	2.35	<.001	1.46	.037	1.40	.048	1.53	.034
Postnatal SLE	-.455	.391	-.442	.408	-.390	.474	.904	.108	.970	.083	1.10	.057
Infant Sex	1.72	.089	1.59	.106	1.48	.143	-2.39	.026	-2.08	.044	-2.05	.055

Note. T1 = 6-26 weeks gestation; ACEs = adverse childhood experiences; GA = gestational age; SLE = stressful life events; CAR = cortisol awakening response; AUCg = total cortisol output.

Supplemental Table 5

Models evaluating maternal cortisol at T2 as a moderator of the association between maternal ACEs and child internalizing and externalizing problems.

	Internalizing Problems						Externalizing Problems					
	CAR T2		Slope T2		AUCg T2		CAR T2		Slope T2		AUCg T2	
	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>
Constant	87.5	<.001	80.7	<.001	81.6	<.001	27.5	.179	26.1	.197	24.1	.239
Cortisol T2	-.311	.172	3.84	.501	.027	.065	.229	.304	6.78	.229	.016	.274
ACEs	.880	.138	2.83	.004	2.07	.382	.786	.177	1.22	.207	.027	.991
ACEs*Cortisol	-.038	.736	4.78	.012	-.006	.555	-.123	.262	1.72	.358	.002	.847
GA at T2	-.667	.206	-.674	.200	-.748	.161	.863	.096	.838	.107	.888	.089
Waking Cortisol T2	-3.09	.523	9.29	.311	-9.40	.099	3.18	.503	13.8	.127	-3.39	.541
Prenatal Distress	.642	.406	.743	.332	.836	.293	.207	.786	.251	.739	.383	.621
Prenatal SLE	.747	.380	1.05	.219	.654	.444	-.810	.333	-.628	.455	-.908	.277
SES	-1.22	.214	-1.11	.255	-1.20	.225	.837	.384	.806	.399	.606	.530
GA at Birth	-.470	.175	-.398	.245	-.368	.296	-.218	.521	-.175	.605	-.153	.657
Postnatal Distress	2.42	.001	2.41	.001	2.19	.004	1.43	.050	1.41	.054	1.16	.117
Postnatal SLE	-.205	.729	-.369	.532	-.360	.546	1.06	.071	.887	.128	.875	.134
Infant Sex	2.83	.011	2.99	.006	3.27	.003	-1.36	.213	-1.50	.157	-1.27	.235

Note. T2 = 27-37 weeks gestation; ACEs = adverse childhood experiences; GA = gestational age; SLE = stressful life events; CAR = cortisol awakening response; AUCg = total cortisol output.

Supplemental Table 6

Models evaluating child sex as a moderator of the association between maternal cortisol at T1 and child internalizing and externalizing problems.

	Internalizing Problems						Externalizing Problems					
	CAR T1		Slope T1		AUCg T1		CAR T1		Slope T1		AUCg T1	
	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>
Constant	77.6	<.001	72.7	<.001	74.1	<.001	58.9	<.001	55.0	<.001	63.5	<.001
Sex	1.14	.373	2.16	.462	.365	.928	-2.53	.061	.305	.921	-8.98	.035
Cortisol T1	-.335	.151	12.2	.116	.013	.512	-.235	.339	11.3	.162	-.026	.219
Sex*Cortisol	.146	.642	1.47	.798	.006	.795	.197	.552	5.02	.402	.042	.090
GA at T1	.137	.337	.111	.443	.113	.442	-.137	.364	-.184	.222	-.111	.470
Waking Cortisol T1	-10.1	.036	10.9	.351	-12.4	.021	-.837	.869	22.2	.070	.175	.975
Prenatal Distress	.638	.350	.664	.346	.631	.371	.119	.869	-.053	.942	-.026	.972
Prenatal SLE	.530	.481	.430	.569	.322	.676	-.558	.482	-.596	.449	-.868	.280
SES	-.214	.806	-.168	.851	-.459	.610	.335	.716	.643	.491	.293	.755
GA at Birth	-.717	.018	-.652	.031	-.673	.027	-.171	.591	-.148	.637	-.218	.490
Postnatal Distress	2.32	<.001	2.25	.001	2.31	<.001	1.41	.045	1.45	.041	1.48	.039
Postnatal SLE	-.293	.578	-.263	.622	-.273	.614	.996	.074	1.07	.056	1.20	.034

Note. T1 = 6-26 weeks gestation; GA = gestational age; SLE = stressful life events; CAR = cortisol awakening response; AUCg = total cortisol output.

Supplemental Table 7

Models evaluating child sex as a moderator of the association between maternal cortisol at T2 and child internalizing and externalizing problems.

	Internalizing Problems						Externalizing Problems					
	CAR T2		Slope T2		AUCg T2		CAR T2		Slope T2		AUCg T2	
	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>	<i>B</i>	<i>p</i>
Constant	88.7	<.001	89.7	<.001	85.2	<.001	26.7	.191	28.0	.171	24.1	.242
Sex	2.39	.121	-.079	.977	-2.34	.670	-1.75	.246	-1.02	.705	1.32	.806
Cortisol T2	-.367	.137	13.1	.044	.012	.524	.062	.797	7.69	.222	.023	.195
Sex*Cortisol	.091	.788	-6.58	.237	.023	.309	.039	.906	1.18	.827	-.011	.616
GA at T1	-.677	.200	-.813	.129	-.696	.193	.894	.085	.806	.121	.839	.108
Waking Cortisol T2	-2.95	.532	10.9	.243	-8.85	.121	2.28	.623	13.8	.131	-2.29	.541
Prenatal Distress	.850	.268	.980	.206	1.21	.125	.310	.680	.329	.662	.408	.594
Prenatal SLE	.617	.471	.687	.422	.436	.612	-.925	.271	-.776	.351	-.868	.302
SES	-1.08	.271	-1.04	.292	-1.28	.195	.872	.364	.904	.344	.761	.428
GA at Birth	-.474	.172	-.412	.237	-.401	.257	-.189	.578	-.175	.606	-.148	.666
Postnatal Distress	2.38	.002	2.30	.002	2.04	.007	1.42	.052	1.39	.058	1.18	.108
Postnatal SLE	-.011	.984	-.017	.977	-.101	.862	1.12	.050	1.05	.066	.986	.083

Note. T2 = 27-37 weeks gestation; GA = gestational age; SLE = stressful life events; CAR = cortisol awakening response; AUCg = total cortisol output.