

Table S1. Table of correlation coefficients for all biomarker variables at each time point.

	Age	Pre-gestational weight	Pre-gestational BMI	Birth weight	Fasting blood glucose T0
Age		0.712	0.671	0.597	0.349
Pre-gestational weight	-0.070		0.000	0.003	0.195
Pre-gestational BMI	-0.081	0.863		0.031	0.260
Birth weight	0.114	0.580	0.441		0.799
Fasting blood glucose T0	-0.196	0.268	0.234	0.059	
Glycated hemoglobin T0	0.090	0.141	0.209	-0.015	0.479
Insulin T0	0.150	0.193	0.279	0.082	0.012
HOMA index T0	-0.136	0.431	0.493	-0.024	0.331
Total cholesterol T0	-0.232	-0.072	-0.099	-0.010	0.002
LDL cholesterol T0	-0.265	-0.275	-0.237	-0.134	-0.028
HDL cholesterol T0	-0.068	0.156	-0.031	0.378	-0.173
Triglycerides T0	0.025	0.198	0.195	0.183	0.012
CRP T0	-0.119	0.023	0.168	0.053	-0.065
Cortisol T0	-0.107	-0.298	-0.211	-0.225	-0.097
BAFF T0	-0.205	-0.268	-0.120	-0.280	0.050
PAF T0	-0.049	0.068	0.112	-0.293	0.259
TNF-α T0	0.033	-0.047	0.012	0.010	0.049
MG T0	-0.190	0.400	0.272	0.438	0.079
GA T0	-0.226	0.388	0.417	0.280	-0.013
glic/tot T0	-0.221	0.372	0.364	0.348	-0.168
Fasting blood glucose T12	-0.372	0.055	0.010	0.139	0.446
Glycated hemoglobin T12	0.033	0.071	0.183	0.049	0.580
Insulin T12	0.012	0.051	0.130	-0.386	0.296
HOMA index T12	-0.283	0.147	0.312	-0.318	0.316
Total cholesterol T12	-0.080	-0.378	-0.330	-0.105	-0.209
LDL cholesterol T12	-0.050	-0.293	-0.229	0.019	-0.099
HDL cholesterol T12	-0.093	0.027	-0.088	0.222	-0.082
Triglycerides T12	0.161	0.226	0.271	0.299	0.056
CRP T12	-0.119	0.069	0.034	0.129	0.031
Cortisol T12	0.276	-0.307	-0.257	-0.313	-0.033
BAFF T12	-0.067	0.100	0.266	0.045	0.216
PAF T12	0.170	0.160	0.171	-0.092	0.150
TNF-α T12	0.163	0.240	0.296	0.114	0.218
MG T12	-0.264	0.406	0.301	0.397	0.178
GA T12	-0.064	0.229	-0.020	0.208	0.019
glic/tot T12	-0.181	0.399	0.202	0.372	-0.163

	Glycated hemoglobin T0	Insulin T0	HOMA index T0	Total cholesterol T0	LDL cholesterol T0
Age	0.635	0.430	0.527	0.218	0.156
Pre-gestational weight	0.457	0.307	0.036	0.704	0.141
Pre-gestational BMI	0.269	0.135	0.014	0.601	0.207
Birth weight	0.945	0.702	0.920	0.963	0.534
Fasting blood glucose T0	0.016	0.953	0.115	0.994	0.893
Glycated hemoglobin T0		0.024	0.096	0.910	0.927
Insulin T0	0.412		0.000	0.482	0.709
HOMA index T0	0.348	0.970		0.224	0.558
Total cholesterol T0	-0.022	0.133	0.258		0.000
LDL cholesterol T0	-0.017	0.071	0.126	0.892	
HDL cholesterol T0	-0.414	-0.250	-0.178	0.433	0.197
Triglycerides T0	0.231	0.225	0.298	0.253	0.091
CRP T0	0.115	0.329	0.533	0.337	0.361
Cortisol T0	-0.173	-0.264	-0.286	0.250	0.354
BAFF T0	-0.049	0.032	-0.004	0.239	0.300
PAF T0	0.394	0.197	0.479	-0.058	-0.034
TNF- α T0	-0.173	0.072	0.164	0.084	0.081
MG T0	0.401	0.338	0.440	0.330	0.283
GA T0	-0.207	-0.043	0.140	0.156	-0.030
glic/tot T0	-0.204	-0.005	0.056	0.149	-0.025
Fasting blood glucose T12	0.161	0.100	0.287	-0.098	-0.181
Glycated hemoglobin T12	0.746	0.322	0.289	0.086	0.107
Insulin T12	0.384	0.486	0.774	0.107	-0.017
HOMA index T12	0.254	0.400	0.768	0.304	0.247
Total cholesterol T12	-0.146	0.029	-0.106	0.822	0.821
LDL cholesterol T12	0.014	0.149	0.000	0.758	0.872
HDL cholesterol T12	-0.462	-0.088	-0.121	0.271	0.167
Triglycerides T12	0.038	0.006	0.017	0.094	-0.071
CRP T12	-0.137	-0.179	-0.078	0.282	0.186
Cortisol T12	-0.010	-0.391	-0.447	-0.136	0.075
BAFF T12	0.047	0.020	-0.082	0.132	0.100
PAF T12	0.364	0.291	0.422	-0.072	-0.118
TNF- α T12	-0.076	0.032	0.119	0.172	0.102
MG T12	0.458	0.273	0.220	0.390	0.319
GA T12	-0.538	-0.388	-0.164	0.112	0.083
glic/tot T12	-0.442	-0.178	-0.135	0.120	0.017

	HDL cholesterol T0	Triglycerides T0	CRP T0	Cortisol T0	BAFF T0
Age	0.720	0.894	0.532	0.572	0.276
Pre-gestational weight	0.412	0.294	0.902	0.110	0.152
Pre-gestational BMI	0.873	0.302	0.376	0.262	0.528
Birth weight	0.069	0.391	0.805	0.290	0.185
Fasting blood glucose T0	0.407	0.955	0.758	0.644	0.811
Glycated hemoglobin T0	0.023	0.219	0.546	0.362	0.797
Insulin T0	0.182	0.232	0.076	0.158	0.868
HOMA index T0	0.404	0.157	0.007	0.176	0.986
Total cholesterol T0	0.017	0.177	0.068	0.182	0.204
LDL cholesterol T0	0.297	0.634	0.050	0.055	0.107
HDL cholesterol T0		0.145	0.260	0.050	0.497
Triglycerides T0	-0.272		0.005	0.002	0.097
CRP T0	-0.212	0.502		0.140	0.381
Cortisol T0	0.361	-0.536	-0.276		0.931
BAFF T0	-0.129	0.309	0.166	0.016	
PAF T0	-0.498	0.344	0.327	-0.360	0.094
TNF- α T0	-0.261	0.182	0.205	-0.296	-0.097
MG T0	0.016	0.336	0.292	-0.015	0.075
GA T0	0.389	0.091	0.198	0.052	0.102
glic/tot T0	0.342	0.183	0.190	0.006	0.150
Fasting blood glucose T12	-0.299	0.294	0.326	-0.272	-0.015
Glycated hemoglobin T12	-0.355	0.272	0.078	-0.149	0.119
Insulin T12	-0.387	0.452	0.157	-0.284	0.307
HOMA index T12	-0.204	0.426	0.497	0.027	0.357
Total cholesterol T12	0.392	-0.014	0.252	0.397	0.176
LDL cholesterol T12	0.217	-0.076	0.342	0.414	0.123
HDL cholesterol T12	0.815	-0.563	-0.228	0.384	-0.105
Triglycerides T12	-0.126	0.730	0.153	-0.458	0.152
CRP T12	0.125	0.331	0.283	-0.373	0.161
Cortisol T12	0.099	-0.563	-0.473	0.647	0.185
BAFF T12	0.018	0.175	0.014	0.019	0.704
PAF T12	-0.368	0.350	0.182	-0.370	0.154
TNF- α T12	-0.148	0.277	0.254	-0.402	0.010
MG T12	0.170	0.156	0.033	0.118	0.125
GA T12	0.312	0.054	-0.058	-0.016	0.050
glic/tot T12	0.435	0.150	-0.026	-0.084	0.135

	PAF T0	TNF- α T0	MG T0	GA T0	glic/tot T0
Age	0.799	0.864	0.314	0.238	0.250
Pre-gestational weight	0.723	0.806	0.028	0.037	0.047
Pre-gestational BMI	0.555	0.948	0.146	0.024	0.052
Birth weight	0.165	0.965	0.032	0.196	0.104
Fasting blood glucose T0	0.211	0.815	0.708	0.953	0.434
Glycated hemoglobin T0	0.031	0.362	0.028	0.281	0.289
Insulin T0	0.296	0.707	0.067	0.825	0.978
HOMA index T0	0.018	0.443	0.031	0.524	0.800
Total cholesterol T0	0.762	0.658	0.075	0.420	0.442
LDL cholesterol T0	0.860	0.670	0.129	0.876	0.896
HDL cholesterol T0	0.005	0.164	0.933	0.037	0.069
Triglycerides T0	0.063	0.336	0.070	0.637	0.341
CRP T0	0.077	0.277	0.118	0.303	0.324
Cortisol T0	0.051	0.112	0.936	0.790	0.977
BAFF T0	0.620	0.610	0.695	0.599	0.436
PAF T0		0.818	0.708	0.690	0.610
TNF- α T0	0.044		0.321	0.237	0.086
MG T0	0.071	-0.188		0.717	0.898
GA T0	0.077	-0.227	-0.070		0.000
glic/tot T0	0.099	-0.325	0.025	0.940	
Fasting blood glucose T12	0.109	0.168	0.186	-0.032	-0.050
Glycated hemoglobin T12	0.295	0.124	0.074	-0.103	-0.170
Insulin T12	0.401	0.227	-0.028	0.051	-0.033
HOMA index T12	0.277	-0.056	0.233	0.296	0.197
Total cholesterol T12	-0.244	0.208	-0.009	0.029	-0.008
LDL cholesterol T12	-0.177	0.308	0.151	-0.031	-0.138
HDL cholesterol T12	-0.580	-0.288	-0.010	0.267	0.196
Triglycerides T12	0.250	0.348	-0.048	0.260	0.372
CRP T12	0.101	0.081	-0.086	0.090	0.015
Cortisol T12	-0.277	-0.434	-0.176	-0.243	-0.345
BAFF T12	-0.076	0.048	-0.125	0.234	0.208
PAF T12	0.756	-0.014	0.101	0.118	0.175
TNF- α T12	0.193	0.542	-0.241	0.211	0.148
MG T12	0.026	-0.331	0.824	-0.029	0.095
GA T12	0.102	-0.151	0.078	0.216	0.272
glic/tot T12	-0.014	-0.372	0.115	0.454	0.604

	Fasting blood glucose T12	Glycated hemoglobin T12	Insulin T12	HOMA index 12	Total cholesterol T12
Age	0.097	0.871	0.954	0.170	0.703
Pre-gestational weight	0.814	0.730	0.810	0.482	0.062
Pre-gestational BMI	0.965	0.370	0.537	0.129	0.107
Birth weight	0.571	0.821	0.069	0.185	0.634
Fasting blood glucose T0	0.049	0.005	0.192	0.142	0.362
Glycated hemoglobin T0	0.485	0.000	0.058	0.221	0.487
Insulin T0	0.667	0.108	0.014	0.047	0.890
HOMA index T0	0.233	0.203	0.000	0.000	0.656
Total cholesterol T0	0.674	0.678	0.612	0.139	0.000
LDL cholesterol T0	0.433	0.604	0.935	0.234	0.000
HDL cholesterol T0	0.188	0.075	0.056	0.329	0.053
Triglycerides T0	0.196	0.178	0.023	0.034	0.948
CRP T0	0.150	0.706	0.452	0.011	0.225
Cortisol T0	0.232	0.467	0.169	0.900	0.049
BAFF T0	0.950	0.563	0.136	0.080	0.400
PAF T0	0.637	0.143	0.047	0.181	0.240
TNF- α T0	0.466	0.545	0.275	0.789	0.319
MG T0	0.420	0.719	0.893	0.262	0.965
GA T0	0.895	0.625	0.812	0.160	0.894
glic/tot T0	0.834	0.416	0.879	0.356	0.969
Fasting blood glucose T12		0.536	0.408	0.083	0.131
Glycated hemoglobin T12	0.143		0.003	0.011	0.723
Insulin T12	0.191	0.563		0.000	0.791
HOMA index T12	0.387	0.541	0.959		0.579
Total cholesterol T12	-0.340	0.075	-0.056	-0.129	
LDL cholesterol T12	-0.276	0.216	-0.087	-0.027	0.942
HDL cholesterol T12	-0.263	-0.433	-0.488	-0.453	0.345
Triglycerides T12	0.034	0.339	0.316	0.196	-0.021
CRP T12	0.155	-0.005	0.074	0.118	0.253
Cortisol T12	-0.407	-0.123	-0.210	-0.190	0.111
BAFF T12	-0.126	0.449	0.272	0.259	0.150
PAF T12	0.096	0.357	0.521	0.237	-0.268
TNF- α T12	0.083	0.209	0.177	0.067	0.277
MG T12	-0.066	0.175	-0.142	0.091	0.131
GA T12	-0.067	-0.603	-0.442	-0.262	-0.015
glic/tot T12	-0.153	-0.458	-0.314	-0.165	-0.027

	LDL cholesterol T12	HDL cholesterol T12	Triglycerides T12	CRP T12	Cortisol T12
Age	0.822	0.659	0.441	0.571	0.182
Pre-gestational weight	0.175	0.899	0.277	0.742	0.136
Pre-gestational BMI	0.294	0.675	0.189	0.872	0.215
Birth weight	0.935	0.308	0.166	0.559	0.146
Fasting blood glucose T0	0.670	0.724	0.810	0.893	0.889
Glycated hemoglobin T0	0.949	0.020	0.856	0.513	0.960
Insulin T0	0.497	0.674	0.977	0.392	0.053
HOMA index T0	0.999	0.612	0.942	0.743	0.048
Total cholesterol T0	0.000	0.190	0.653	0.172	0.517
LDL cholesterol T0	0.000	0.424	0.736	0.373	0.720
HDL cholesterol T0	0.319	0.000	0.548	0.551	0.638
Triglycerides T0	0.731	0.003	0.000	0.106	0.003
CRP T0	0.110	0.273	0.465	0.170	0.017
Cortisol T0	0.050	0.058	0.021	0.066	0.000
BAFF T0	0.576	0.617	0.468	0.442	0.377
PAF T0	0.420	0.002	0.227	0.630	0.180
TNF- α T0	0.153	0.162	0.088	0.700	0.030
MG T0	0.491	0.964	0.821	0.683	0.400
GA T0	0.893	0.207	0.220	0.676	0.252
glic/tot T0	0.540	0.358	0.074	0.943	0.098
Fasting blood glucose T12	0.226	0.250	0.882	0.503	0.067
Glycated hemoglobin T12	0.323	0.030	0.098	0.982	0.557
Insulin T12	0.692	0.013	0.124	0.726	0.313
HOMA index T12	0.907	0.039	0.396	0.610	0.410
Total cholesterol T12	0.000	0.091	0.920	0.223	0.598
LDL cholesterol T12		0.273	0.531	0.363	0.329
HDL cholesterol T12	0.238		0.011	0.739	0.385
Triglycerides T12	-0.138	-0.498		0.535	0.019
CRP T12	0.199	-0.070	0.130		0.726
Cortisol T12	0.213	0.182	-0.467	-0.074	
BAFF T12	0.117	-0.051	0.286	0.140	0.109
PAF T12	-0.297	-0.593	0.373	0.180	-0.261
TNF- α T12	0.293	-0.233	0.491	0.474	-0.308
MG T12	0.193	0.191	-0.070	-0.081	-0.080
GA T12	-0.096	0.266	0.064	0.332	-0.084
glic/tot T12	-0.179	0.270	0.215	0.323	-0.215

	BAFF T12	PAF T12	TNF- α T12	MG T12	GA T12
Age	0.822	0.659	0.441	0.571	0.182
Pre-gestational weight	0.175	0.899	0.277	0.742	0.136
Pre-gestational BMI	0.294	0.675	0.189	0.872	0.215
Birth weight	0.935	0.308	0.166	0.559	0.146
Fasting blood glucose T0	0.670	0.724	0.810	0.893	0.889
Glycated hemoglobin T0	0.949	0.020	0.856	0.513	0.960
Insulin T0	0.497	0.674	0.977	0.392	0.053
HOMA index T0	0.999	0.612	0.942	0.743	0.048
Total cholesterol T0	0.000	0.190	0.653	0.172	0.517
LDL cholesterol T0	0.000	0.424	0.736	0.373	0.720
HDL cholesterol T0	0.319	0.000	0.548	0.551	0.638
Triglycerides T0	0.731	0.003	0.000	0.106	0.003
CRP T0	0.110	0.273	0.465	0.170	0.017
Cortisol T0	0.050	0.058	0.021	0.066	0.000
BAFF T0	0.576	0.617	0.468	0.442	0.377
PAF T0	0.420	0.002	0.227	0.630	0.180
TNF- α T0	0.153	0.162	0.088	0.700	0.030
MG T0	0.491	0.964	0.821	0.683	0.400
GA T0	0.893	0.207	0.220	0.676	0.252
glic/tot T0	0.540	0.358	0.074	0.943	0.098
Fasting blood glucose T12	0.226	0.250	0.882	0.503	0.067
Glycated hemoglobin T12	0.323	0.030	0.098	0.982	0.557
Insulin T12	0.692	0.013	0.124	0.726	0.313
HOMA index T12	0.907	0.039	0.396	0.610	0.410
Total cholesterol T12	0.000	0.091	0.920	0.223	0.598
LDL cholesterol T12		0.273	0.531	0.363	0.329
HDL cholesterol T12	0.238		0.011	0.739	0.385
Triglycerides T12	-0.138	-0.498		0.535	0.019
CRP T12	0.199	-0.070	0.130		0.726
Cortisol T12	0.213	0.182	-0.467	-0.074	
BAFF T12	0.117	-0.051	0.286	0.140	0.109
PAF T12	-0.297	-0.593	0.373	0.180	-0.261
TNF- α T12	0.293	-0.233	0.491	0.474	-0.308
MG T12	0.193	0.191	-0.070	-0.081	-0.080
GA T12	-0.096	0.266	0.064	0.332	-0.084
glic/tot T12	-0.179	0.270	0.215	0.323	-0.215

	glic/tot T12
Age	0.338
Pre-gestational weight	0.029
Pre-gestational BMI	0.284
Birth weight	0.074
Fasting blood glucose T0	0.437
Glycated hemoglobin T0	0.014
Insulin T0	0.345
HOMA index T0	0.530
Total cholesterol T0	0.528
LDL cholesterol T0	0.929
HDL cholesterol T0	0.016
Triglycerides T0	0.429
CRP T0	0.892
Cortisol T0	0.658
BAFF T0	0.477
PAF T0	0.942
TNF-α T0	0.043
MG T0	0.546
GA T0	0.013
glic/tot T0	0.001
Fasting blood glucose T12	0.508
Glycated hemoglobin T12	0.019
Insulin T12	0.126
HOMA index T12	0.429
Total cholesterol T12	0.897
LDL cholesterol T12	0.413
HDL cholesterol T12	0.192
Triglycerides T12	0.303
CRP T12	0.115
Cortisol T12	0.302
BAFF T12	0.562
PAF T12	0.409
TNF-α T12	0.794
MG T12	0.295
GA T12	0.000
glic/tot T12	

In the upper part of the table, we reported p-value, while in the lower part of the table, we reported R-value. HOMA index, homeostatic model assessment index; HDL cholesterol, high-density lipoprotein cholesterol; LDL cholesterol, low-density lipoprotein cholesterol; CRP, C-reactive protein.