Table S1. Descriptive statistics of the free bilirubin levels determined in FF of CFF and in pooled IF.

	CFF	IF
Number of values	35	145
Minimum	0.05820	0.2600
25% Percentile	0.1725	0.9785
Median	0.3700	1.118
75% Percentile	0.5325	1.273
Maximum	0.6700	2.350
Range	0.6118	2.090
95% CI of median		
Actual confidence level	97.57%	95.41%
Lower confidence limit	0.2000	1.079
Upper confidence limit	0.4400	1.180
Mean	0.3591	1.150
Std. Deviation	0.1831	0.2557
Std. Error of Mean	0.03140	0.02124
Lower 95% CI of mean	0.2952	1.108
Upper 95% CI of mean	0.4229	1.192

Table S2. Descriptive statistics of the conjugated bilirubin levels determined in FF of CFF and in pooled IF.

	CFF	IF
Number of values	35	145
Minimum	0.2300	0.06000
25% Percentile	1.240	5.490
Median	1.010	5.430
75% Percentile		
Maximum		
Range	97.57%	95.41%
	0.7400	1.507
95% CI of median	0.9900	2.330
Actual confidence level		
Lower confidence limit	0.8350	1.953
Upper confidence limit	0.2442	1.095
	0.04189	0.09094
Mean		
Std. Deviation	0.7498	1.773
Std. Error of Mean	0.9202	2.132
	0.2300	0.06000
Lower 95% CI of mean	1.240	5.490
Upper 95% CI of mean	1.010	5.430

Table S3. Descriptive statistics of the total bilirubin levels determined in FF of CFF and in pooled IF.

	CFF	IF

Number of values	35	145
Minimum	0.2900	0.3200
25% Percentile	1.900	7.840
Median	1.610	7.520
75% Percentile		
Maximum		
Range	97.57%	95.41%
	0.9800	2.740
95% CI of median	1.460	3.131
Actual confidence level		
Lower confidence limit	1.196	3.071
Upper confidence limit	0.4219	1.197
	0.07235	0.09942
Mean		
Std. Deviation	1.049	2.874
Std. Error of Mean	1.344	3.267
	0.2900	0.3200
Lower 95% CI of mean	1.900	7.840
Upper 95% CI of mean	1.610	7.520

Table S4. Effect size of free, conjugated and total bilirubin levels detected in FF of CFF and in pooled IF.

	Hedges' g values of Free bilirubin	Hedges' g values of Conjugated bilirubin	Hedges' g values of Total bilirubin
CFF versus IF	3.245*	1.125**	1.717***

*Huge effect size

**Large effect size

***Very large effect size

Table S5. Descriptive statistics of the free bilirubin levels determined in FF of CFF and in IF categorized into the corresponding categories of EM, PCOS, AR-ROR, ROR, UI and GI according to the clinical diagnosis of infertility.

	CFF	EM	PCOS	AR-ROR	ROR	UI	GI
Number of values	35	19	14	58	29	14	11
Minimum	0.05820	1.105	0.7600	0.2600	0.8300	0.9700	0.8650
25% Percentile	0.1725	1.252	0.8300	0.9418	1.023	1.013	0.9270
Median	0.3700	1.384	1.160	1.079	1.100	1.230	1.039
75% Percentile	0.5325	1.750	1.425	1.210	1.222	1.310	1.230
Maximum	0.6700	2.350	1.510	1.470	1.348	1.500	1.660
Range	0.6118	1.245	0.7500	1.210	0.5180	0.5300	0.7950
95% CI of median							
Actual confidence level	97.57%	98.08%	97.75%	95.60%	97.06%	97.87%	98.83%
Lower confidence limit	0.2000	1.252	0.8200	1.008	1.033	1.000	0.9070
Upper confidence limit	0.4400	1.750	1.440	1.110	1.202	1.310	1.270
Mean	0.3591	1.478	1.115	1.065	1.110	1.200	1.110
Std. Deviation	0.1831	0.3385	0.2857	0.2034	0.1401	0.1722	0.2249
Std. Error of Mean	0.03140	0.07765	0.07925	0.02718	0.02517	0.04306	0.06781
Lower 95% CI of mean	0.2952	1.315	0.9419	1.010	1.058	1.108	0.9589
Upper 95% CI of mean	0.4229	1.641	1.287	1.119	1.161	1.292	1.261

Table S6. Descriptive statistics of the conjugated bilirubin levels determined in FF of CFF and in IF categorized into the corresponding categories of EM, PCOS, AR-ROR, ROR, UI and GI according to the clinical diagnosis of infertility.

	CFF	EM	PCOS	AR-ROR	ROR	UI	GI
Number of values	35	19	14	58	29	14	11
Minimum	0.2300	0.9320	0.9500	0.06000	0.3600	0.6800	0.3890
25% Percentile	0.6850	1.416	1.425	0.9393	1.043	1.188	0.6690
Median	0.8650	2.595	2.450	2.267	1.494	2.260	1.000
75% Percentile	1.020	4.150	3.280	2.694	2.320	2.610	2.340
Maximum	1.240	5.490	4.520	3.680	3.264	3.760	3.050
Range	1.010	4.558	3.570	3.620	2.904	3.080	2.661
95% CI of median							
Actual confidence level	97.57%	98.08%	97.75%	95.60%	97.06%	97.87%	98.83%
Lower confidence limit	0.7400	1.416	1.410	1.400	1.063	1.050	0.6390
Upper confidence limit	0.9900	4.150	3.550	2.386	1.647	2.630	2.800
Mean	0.8350	2.644	2.510	1.853	1.608	2.084	1.408
Std. Deviation	0.2442	1.465	1.175	1.030	0.7229	0.9673	0.9293
Std. Error of Mean	0.04189	0.3362	0.3258	0.1376	0.1298	0.2418	0.2802
Lower 95% CI of mean	0.7498	1.937	1.800	1.577	1.343	1.568	0.7832
Upper 95% CI of mean	0.9202	3.350	3.220	2.129	1.873	2.599	2.032

Table S7. Descriptive statistics of the total bilirubin levels determined in FF of CFF and in IF categorized into the corresponding categories of EM, PCOS, AR-ROR, ROR, UI and GI according to the clinical diagnosis of infertility.

	CFF	EM	PCOS	AR-ROR	ROR	UI	GI
Number of values	35	19	14	58	29	14	11
Minimum	0.2900	2.070	2.100	0.3230	1.190	1.940	1.580
25% Percentile	0.8600	2.831	2.855	1.988	2.087	2.418	1.640
Median	1.230	4.407	3.260	3.174	2.716	3.300	2.230
75% Percentile	1.530	5.656	4.370	3.772	3.245	3.750	3.360
Maximum	1.900	6.595	6.030	5.145	4.570	5.260	3.920
Range	1.610	4.525	3.930	4.822	3.380	3.320	2.340
95% CI of median							

Actual confidence level	97.57%	98.08%	97.75%	95.60%	97.06%	97.87%	98.83%
Lower confidence limit	0.9800	2.831	2.820	2.540	2.126	2.250	1.620
Upper confidence limit	1.450	5.656	4.730	3.340	2.995	3.770	3.920
Mean	1.194	4.121	3.625	2.918	2.718	3.286	2.518
Std. Deviation	0.4204	1.532	1.265	1.136	0.7465	1.014	0.8854
Std. Error of Mean	0.07209	0.3514	0.3508	0.1518	0.1341	0.2534	0.2670
Lower 95% CI of mean	1.047	3.383	2.860	2.614	2.444	2.746	1.923
Upper 95% CI of mean	1.341	4.859	4.389	3.222	2.991	3.826	3.113

Table S8. Effect size of the comparison of free, conjugated and total bilirubin levels detected in FF of CFF and in IF categorized into the corresponding categories of EM, PCOS, AR-ROR, ROR, UI and GI according to the clinical diagnosis of infertility.

	Hedges' g values of Free bilirubin	Hedges' g values of Conjugated bilirubin	Hedges' g values of Total bilirubin
CFF versus EM	4.504*	2.042*	3.045*
CFF versus PCOS	3.544*	2.556*	3.221*
CFF versus AR-ROR	3.668*	1.219**	1.844*
CFF versus ROR	4.552*	1.494**	2.583*
CFF versus UI	4.685*	2.275*	3.281*
CFF versus GI	3.911*	1.161**	2.365*

*Huge effect size

**Very large effect size

Table S9. Descriptive statistics of the total bilirubin levels determined in FF donors with and without clinical pregnancy.

	Pregnancy	No pregnancy
Number of values	42	68
Minimum	0.3200	1.050
25% Percentile	1.388	1.835
Median	1.770	2.535
75% Percentile	2.564	3.153
Maximum	3.270	6.730
Range	2.950	5.680
95% CI of median		
Actual confidence level	95.64%	96.15%
Lower confidence limit	1.500	2.100
Upper confidence limit	2.230	2.920
Mean	1.907	2.634
Std. Deviation	0.7428	1.151

Std. Error of Mean	0.1146	0.1396
Lower 95% CI of mean	1.676	2.355
Upper 95% CI of mean	2.139	2.913

Table S10. Effect size of total bilirubin levels detected in FF donors with and without clinical pregnancy.

	Hedges' g value of total bilirubin
Pregnancy versus No pregnancy	0.716*

*Medium-to-large effect size

Table S11. Descriptive statistics of the total bilirubin levels determined in FF donors with and without clinical pregnancy.

	Pregnancy	No pregnancy
Number of values	27	12
Minimum	0.6200	1.120
25% Percentile	1.250	2.048
Median	1.710	2.745
75% Percentile	2.220	3.314
Maximum	3.170	4.900
Range	2.550	3.780
95% CI of median		
Actual confidence level	98.08%	96.14%
Lower confidence limit	1.260	1.960
Upper confidence limit	2.070	3.350
Mean	1.720	2.768
Std. Deviation	0.6314	0.9838
Std. Error of Mean	0.1215	0.2840
Lower 95% CI of mean	1.470	2.143
Upper 95% CI of mean	1.970	3.393

Table S12. Effect size of total bilirubin levels detected in FF donors with and without clinical pregnancy.

	Hedges' g value of total bilirubin
Pregnancy versus No pregnancy	1.392*

*Very large-to-huge effect size

Table S13. Results of the evaluation of the diet patterns of the two groups of FF donors (CFF and IF), using the Mediterranean Diet Scale proposed by Trichopoulou et al. (Trichopoulou, A.; Costacou, T.; Bamia, C.; Trichopoulos, D.Adherence to a Mediterranean diet and survival in a Greek population.*N Engl J Med***2003**,*348,*2599-2608. doi: 10.1056/NEJMoa025039). A questionnaire was administered to all participants at the time of enrollment, adopting the criteria of evaluation suggested in the aforementioned study.

	MDS 0-3 Number of subjects (%)	MDS 4-5 Number of subjects (%)	MDS 6-9 Number of subjects (%)
CFF (n = 35)	3 (8.6%)	14 (40.0%)	18 (51.4%)
IF (n = 145)	10 (6.9%)	65 (44.8%)	70 (48.3%)

MDS = Mediterranean Diet Score

MDS 0-3 = low adherence to Mediterranean diet

MDS 4-5 = moderate adherence to Mediterranean diet

MDS 0-3 = high adherence to Mediterranean diet

Table S14. Results of the evaluation of the physical activity (energy expenditure) of the two groups of FF donors (CFF and IF), using the attribution of Metabolic Equivalents of Task (MET)to different common physical activities described by Jetté et al. (Jetté M, Sidney K, Blümchen G. Metabolic equivalents (METS) in exercise testing, exercise prescription, and evaluation of functional capacity.*Clin Cardiol***1990,***13,*555-565. doi: 10.1002/clc.4960130809.).

	MET ≤ 3 Number of subjects (%)	MET 3-6 Number of subjects (%)	MET > 6 Number of subjects (%)
CFF (n = 35)	5 (14.3%)	22 (62.9%)	8 (22.9%)
IF (n = 145)	26 (17.9%)	100 (69.0%)	19 (13.1%)

MET = Metabolic Equivalents of Task

MET ≤ 3 = Sedentary-to-light active subjects

MET 3-6 = Moderately active subjects

MET > 6 = Highly active subjects