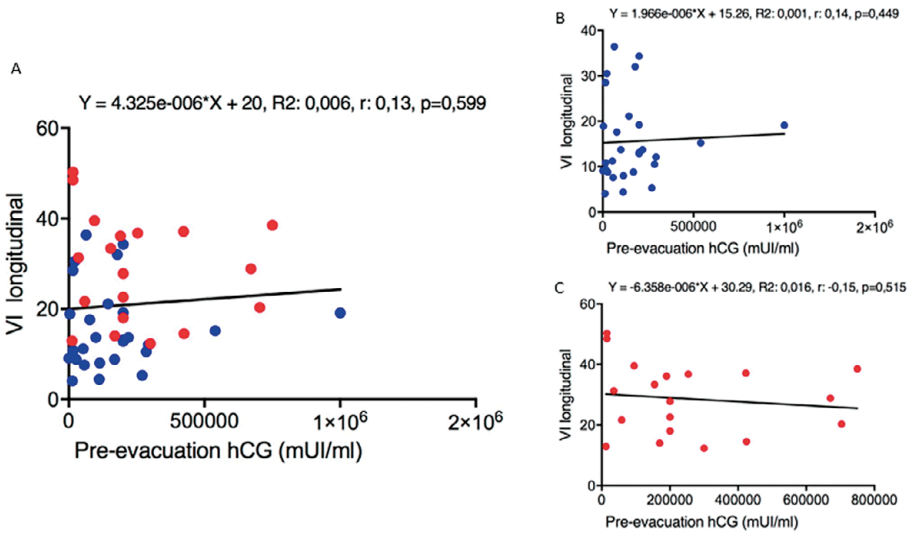
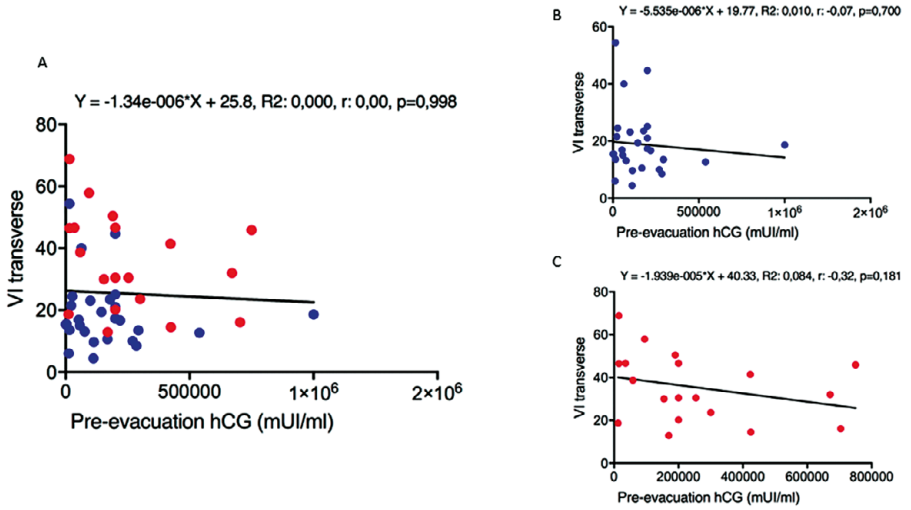
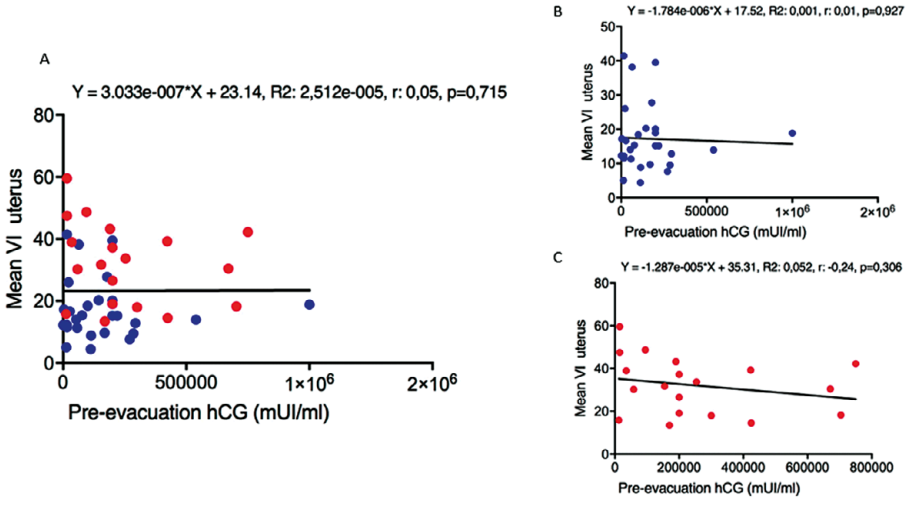


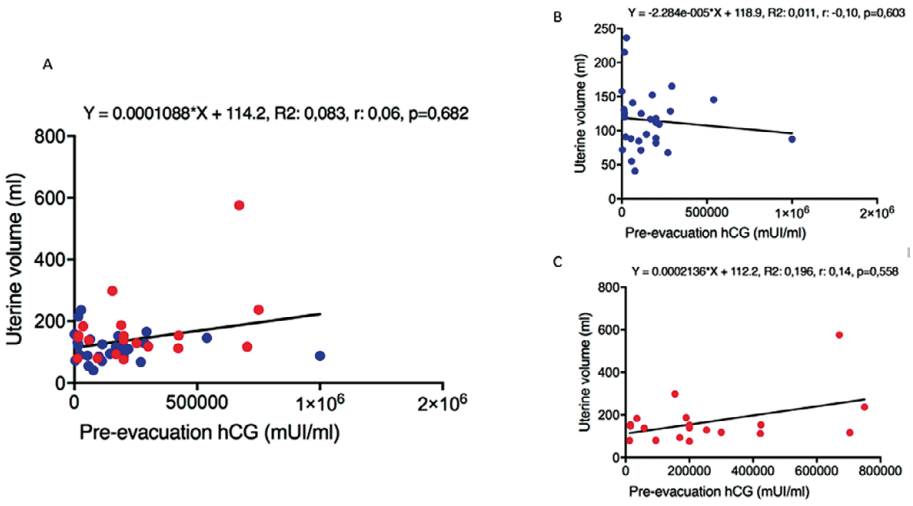
Supplementary figure S1. Correlation between pre-evacuation serum human chorionic gonadotropin (hCG) levels and the vascular index (VI) in the longitudinal uterine plane among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. $p<0.05$.



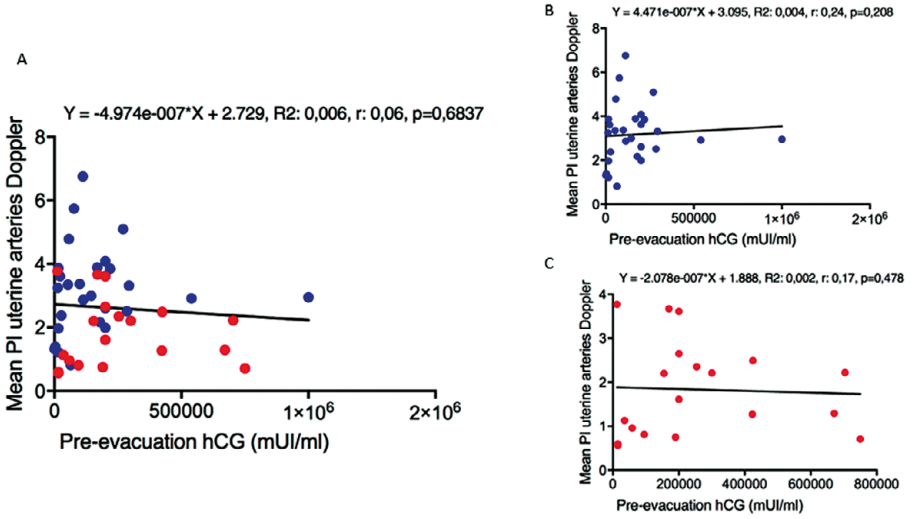
Supplementary figure S2. Correlation between pre-evacuation serum human chorionic gonadotropin (hCG) levels and the vascular index (VI) in the transverse uterine plane among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. $p<0.05$.



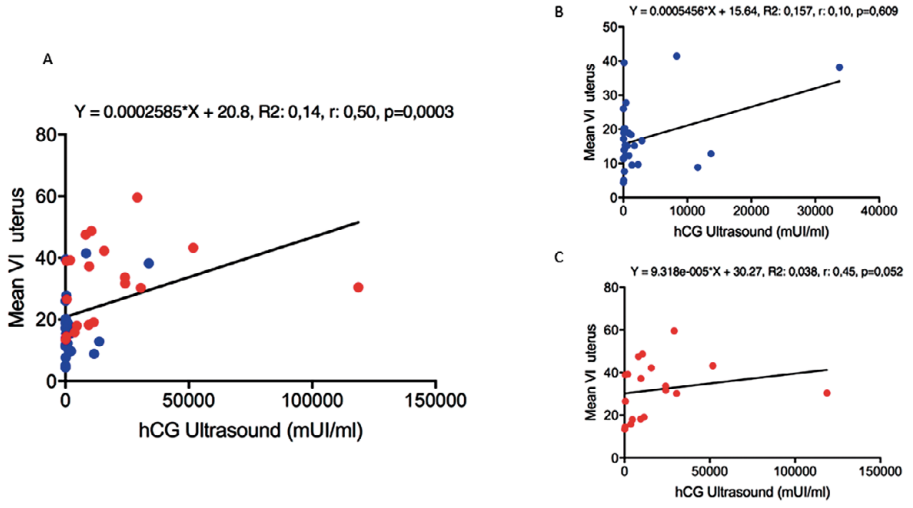
Supplementary figure S3. Correlation between pre-evacuation serum human chorionic gonadotropin (hCG) levels and the mean uterine vascular index (VI) among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. $p<0.05$.



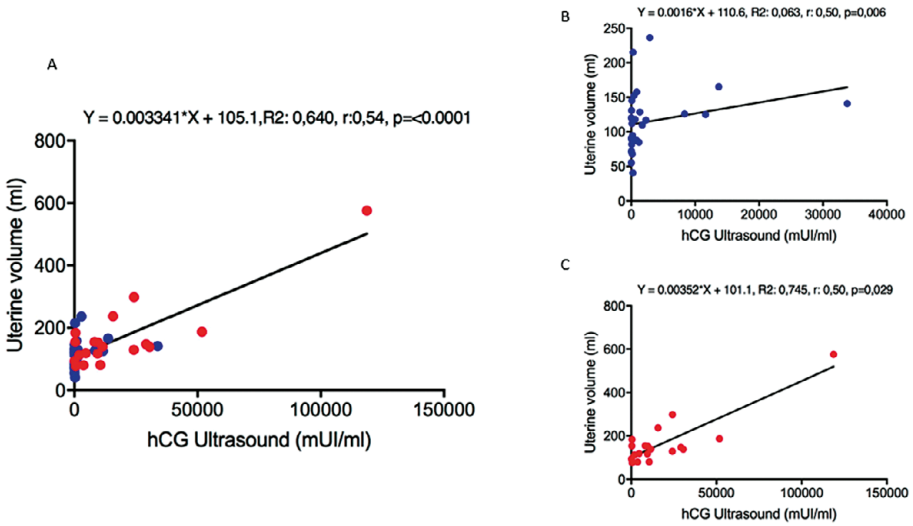
Supplementary figure S4. Correlation between pre-evacuation serum human chorionic gonadotropin (hCG) levels and uterine volume among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. $P < 0.05$.



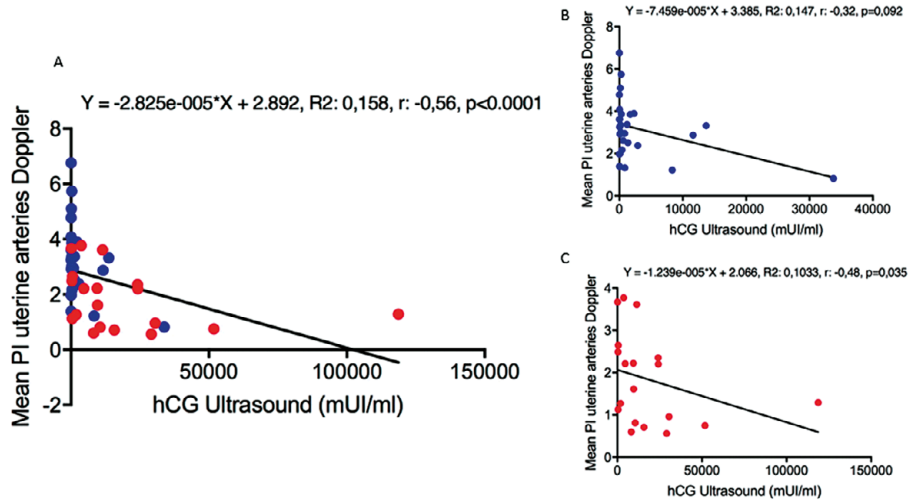
Supplementary figure S5. Correlation between pre-evacuation serum human chorionic gonadotropin (hCG) levels and mean uterine artery pulsatility index (PI) among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. $p<0.05$.



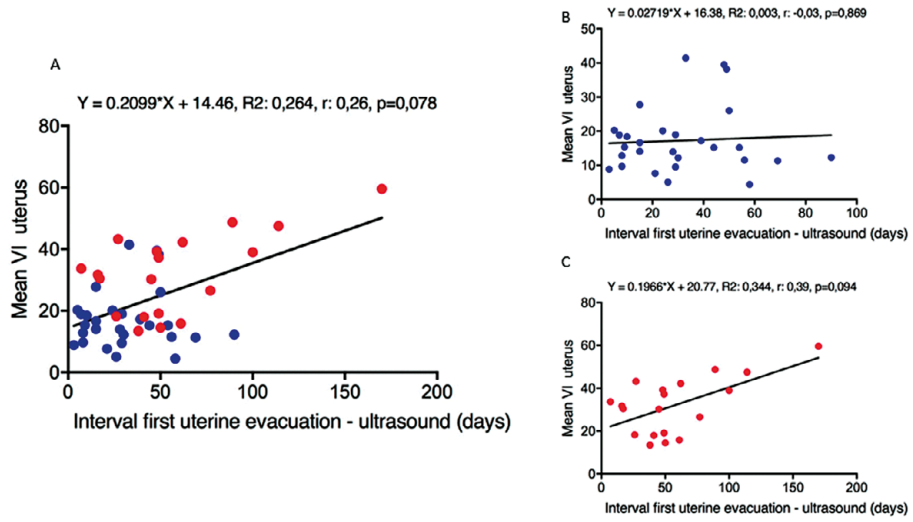
Supplementary figure S6. Correlation between serum human chorionic gonadotropin (hCG) levels at the time of ultrasound and mean uterine vascular index (VI) among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. $p<0.05$.



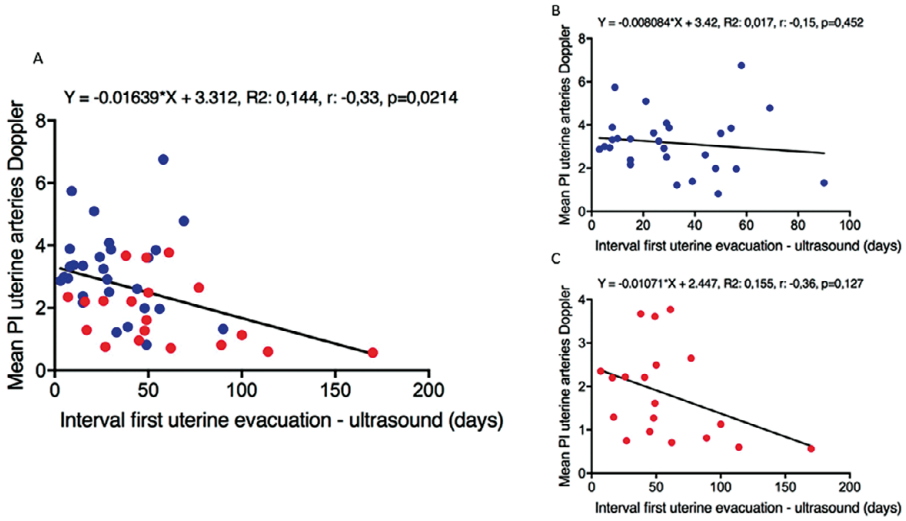
Supplementary figure S7. Correlation between serum human chorionic gonadotropin (hCG) levels at the time of ultrasound and uterine volume among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. p<0.05.



Supplementary figure S8. Correlation between serum human chorionic gonadotropin (hCG) levels at the time of ultrasound and mean uterine artery pulsatility index (PI) among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. p<0.05.



Supplementary figure S9. Correlation between the interval from first uterine evacuation to ultrasound examination and the mean vascular index (VI) among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. p<0.05.



Supplementary figure S 10. Correlation between the interval from first uterine evacuation to ultrasound examination and the mean uterine artery pulsatility index among patients with complete hydatidiform mole (blue) and gestational trophoblastic neoplasia (red). Spearman correlation test. p<0.05.

Supplementary Table S I. Odds ratios for the development of gestational trophoblastic neoplasia based on ultrasonographic parameters obtained during the patient's first evaluation at the unit.

Variable	OR	95% CI	*p*-value
VI – longitudinal uterine plane	1.12	1.04–1.19	0.001
VI – transverse uterine plane	1.09	1.03–1.15	0.002
VI – mean uterine value	1.11	1.04–1.18	0.001
Uterine volume (mL)	1.01	0.99–1.02	0.063
Mean uterine artery pulsatility index	0.38	0.21–0.73	0.004
Pre-evacuation hCG	1.00	1.00–1.00	0.170

CI: confidence interval; VI: vascular index; hCG: human chorionic gonadotropin. Statistical analysis: Binary logistic regression. p<0.05.

Supplementary Table S II. Optimal cut-off values of ultrasonographic indices for predicting gestational trophoblastic neoplasia in patients with gestational trophoblastic disease.

Variable	Cut-off Value	AUC	95% CI	Sensitivity	Specificity	False Positive	LHR+	LHR–	*p*-value
VI – longitudinal uterine plane	19.7	0.829	0.71–0.94	0.73	0.786	0.214	3.41	0.34	<0.0001
VI – transverse uterine plane	23.5	0.816	0.69–0.94	0.74	0.821	0.179	4.13	0.32	<0.0001
VI – mean uterine value	26.3	0.823	0.70–0.84	0.68	0.857	0.143	4.76	0.37	0.001
Mean uterine artery pulsatility index (PI)	2.63	0.777	0.63–0.91	0.79	0.643	0.357	2.21	0.33	0.001

VI: vascular index; PI: pulsatility index; AUC: area under the curve; CI: confidence interval; LHR+: positive likelihood ratio; LHR–: negative likelihood ratio. Analysis: Receiver operating characteristic (ROC). p<0.05.

Supplementary Table S III. Odds ratios for the development of gestational trophoblastic neoplasia based on ultrasonographic parameters obtained during the patient's first evaluation at the unit.

Variable	OR	95% CI	*p*-value
VI – longitudinal uterine plane	1.14	0.99–1.30	0.056
VI – transverse uterine plane	1.11	0.99–1.25	0.074
VI – mean uterine value	1.13	0.99–1.30	0.063
Uterine volume (mL)	1.01	0.98–1.04	0.284
Mean uterine artery pulsatility index	0.12	0.009–1.78	0.127
Pre-evacuation hCG	1.00	1.00–1.00	0.289

VI: vascular index; hCG: human chorionic gonadotropin. Statistical analysis: Binary logistic regression. p < 0.05.