

Table 3. Logistic regression of prenatal and perioperative variables and massive blood loss associated with placenta accreta spectrum

	Univariate logistic regression	P value	Multivariable logistic regression	P value
Management method	0.36 [0.24 - 0.56]	0.0001	1.71 [0.78 - 3.81]	0.182
Age	1.01 [0.97 - 1.05]	0.62		
Parity	1.06 [0.92 - 1.22]	0.40		
BMI	1.10 [1.05 - 1.15]	<0.0001	1.09 [1.02 - 1.15]	0.009
Smoking	0.96 [0.49 - 1.89]	0.90		
Ethnicity	1.06 [0.87- 1.3]	0.56		
Previous CS	0.90 [0.75- 1.08]	0.27		
IVF pregnancy	0.99 [0.40- 2.45]	0.99		
Conception type	0.54 [0.12- 2.36]	0.41		
Gestational diabetes	0.88 [0.44- 1.79]	0.728		
Gestational hypertension	0.48 [0.11- 2.09]	0.33		
Chronic hypertension	1.44 [0.46- 4.49]	0.53		
Preeclampsia	0.84 [0.18 – 3.84]	0.822		
Fetal growth restriction	2.70 [0.78 – 9.37]	0.117	1.62 [0.32 - 8.09]	0.558
Prior gynecologic D & C	1.12 [0.67 – 1.89]	0.652		
Prior obstetric D & C	0.75 [0.48 – 1.17]	0.207		
Open myomectomy	0.57 [0.07 - 4.64]	0.605		
Hysteroscopic myomectomy	4.66 [0.29 - 75.05]	0.277		
GA at diagnosis	1.10 [1.07 - 1.14]	0.0001	1.08 [1.02 - 1.14]	0.008
Method of diagnosis	0.32 [0.13-0.81] *	0.02	0.61 [0.18 - 2.09]	0.431
GA at delivery	0.94 [0.89 - 0.99]	0.02	1.00 [0.90 - 1.12]	0.963
Indication of delivery	1.41 [0.88 - 2.26] ***	0.152	1.22 [0.63 - 2.34]	0.552
Preoperative hemoglobin	0.79 [0.69 - 0.91]	0.001	0.77 [0.65 - 0.92]	0.004
Uterine wall resection	0.29 [0.068 - 1.22]	0.09	0.51 [0.10- 2.45]	0.398
Intrauterine balloon	1.38 [0.75 – 2.54]	0.298		
Internal iliac artery ligation	0.92 [0.48 – 1.76]	0.801		
Uterine artery ligation	0.93 [0.52 – 1.68]	0.815		
Bed suturing	0.54 [0.3 – 1]	0.052	0.64 [0.25 - 1.62]	0.348
Interventional radiology	6.37 [3.78 – 10.76]	<0.0001	5.62 [2.38 - 13.29]	< 0.0001
Compression sutures	0.47 [0.29-0.78]	0.003	0.95 [0.49 - 1.85]	0.885
PAS type (increta, percreta)	3.90 [2.33-6.51] 3.74 [2.21-6.35]	0.0001 0.0001	1.92 [0.98 - 3.75] 1.19 [0.52 - 2.75]	0.053 0.682
Placental site (posterior low, central)	0.22 [0.10-.46] 1.52 [0.99-2.34]	0.0001 0.055	1.01 [0.39 - 2.62] 2.28 [1.25 - 4.18]	0.985 0.007
Type of invasion	3.55 [2.39-5.28]	0.0001	3.15 [1.61 - 6.16]	0.001
CS incision	1.11 [0.88 - 1.40]	0.39		
Incision relation to placenta	0.57 [0.38 -0.85]	0.006	0.26 [0.13 - 0.51]	< 0.0001
Organ invasion	2.65 [1.85 - 3.79]	>0.0001	Bladder: 3.08 [1.95 – 8.61] Parametrial: 5.37 [1.21 – 23.79]	< 0.0001 0.027
Cord clamping	0.61 [0.34 - 1.09]	0.08	0.43 [0.14 - 1.26]	0.190
IUFD	5.79 [1.74-19.25]	0.005	10.25 [1.51 – 69.34]	0.014

BMI: body mass index; CS: cesarean section; IVF: in-vitro fertilization; D & C: dilation and curettage; GA: gestational age; PAS: placenta accreta spectrum; IUFD: intrauterine fetal death

* Ultrasound confirmed by magnetic resonance imaging

** Ultrasound with Doppler assessment

*** Emergency delivery due to placenta accreta