
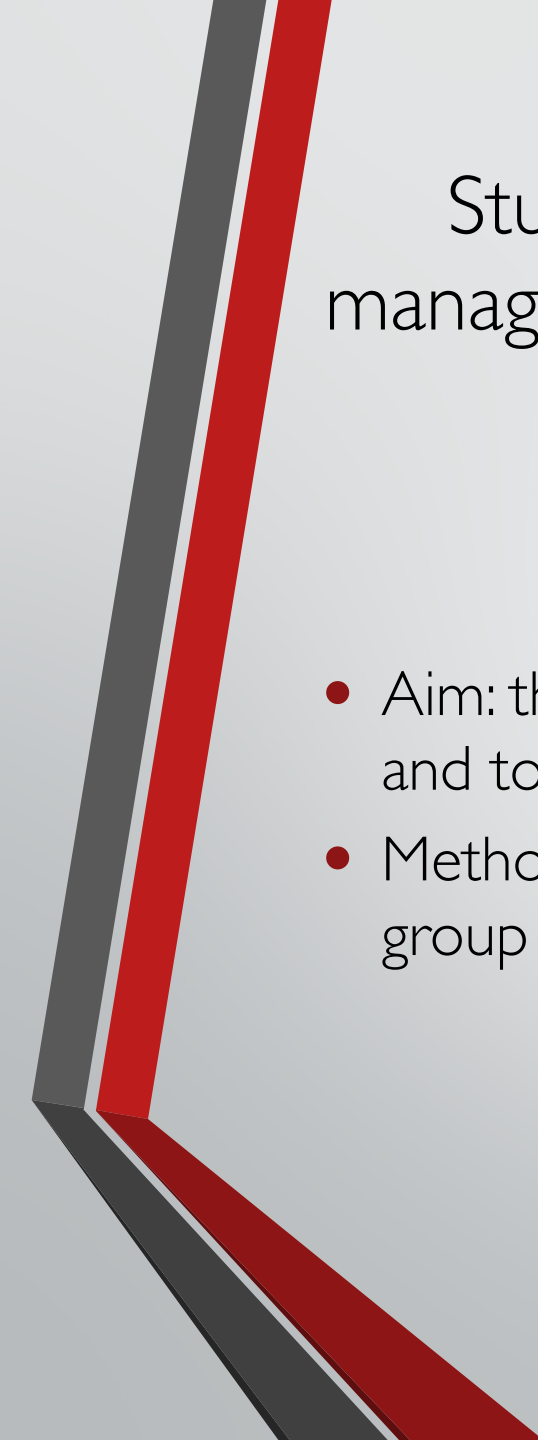


A standardized multidisciplinary approach
for the management of AIP
(Abnormally Invasive Placenta)

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- "Recommended management of suspected placenta accreta is planned preterm cesarean hysterectomy with the placenta left in situ because removal of the placenta is associated with significant hemorrhagic morbidity."
 - ACOG (The American College of Obstetricians and Gynecologists)



Study: A standardized multidisciplinary approach for the management of AIP; Striking differences in blood loss and need for transfusion

- Aim: the outcome of a standardized approach, special reference to blood loss and to the need for transfusion
- Methods: Retrospective data collection. Comparison: study group/ control group

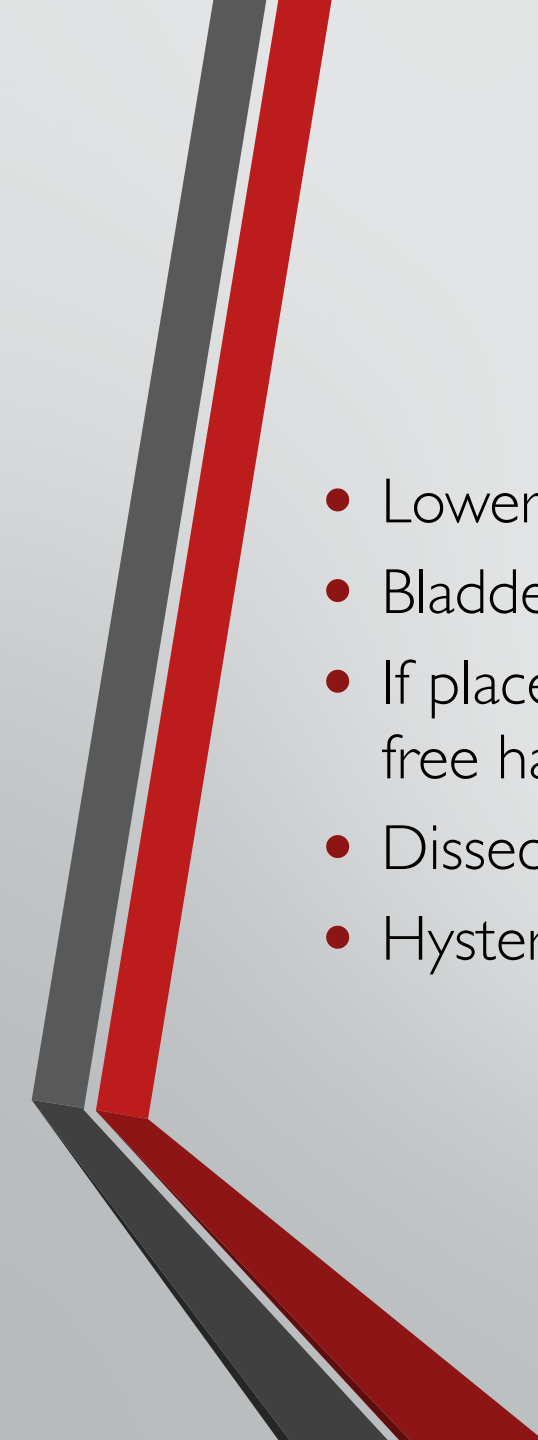
Table 1. Patient characteristics.

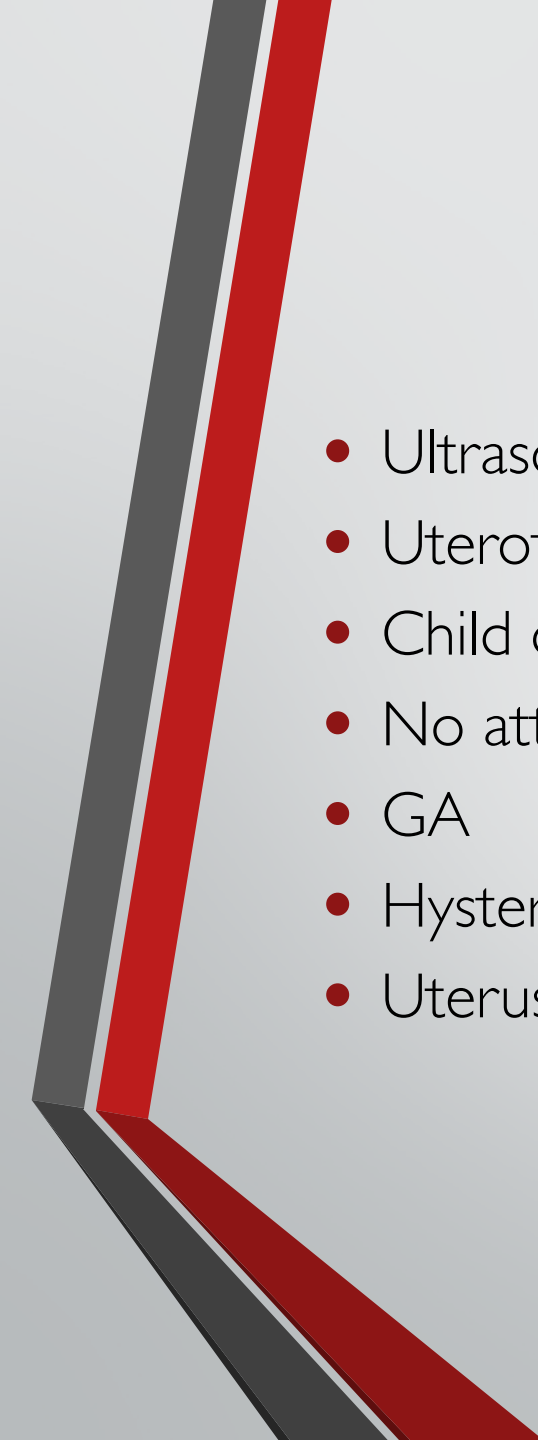
	Study group (n = 10)	Control group (n = 9)	p-value
Age (years)	37.0 (\pm 3.0)	36.3 (\pm 3.4)	ns
Body mass index (kg/m ²)	29.7 (\pm 3.1)	26.6 (\pm 4.0)	ns
Gravidity (n)	5.4 (\pm 2.4)	3.6 (\pm 1.2)	ns
Parity (n)	2.6 (\pm 1.5)	1.7 (\pm 1.1)	ns
Gestational week (n)	34.0 (\pm 4.7)	36.2 (\pm 2.3)	ns
Previous CS (n)	1.4 (\pm 1.1)	1.4 (\pm 1.1)	ns

Data are shown as mean (SD) or number (n).

Surgical technique, foetal monitoring and anaesthetic procedures

- Multidisciplinary team assembled (obstetrician, gynecologist, urolog, anaesthetist)
- Early anaesthetic assesment and plan
- Preoperative gathering and reviewing the procedure, risks ...
- Preparation for massive obstetric haemorrhage (cross - matched blood immediatelly available,, large bore iv acces, art. line...)
- CSE

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- Lower midline abdominal incision
 - Bladder dissection from uterus
 - If placental growth in the bladder, cystotomy, engaged part of the bladder cut free hanging by the placenta to the isthmus
 - Dissection completed, ureters and iliacal vessels identified
 - Hysterectomy prepared

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- Ultrasonography assessment of fetal HR/ placenta extension
 - Uterotomy at corpus above placenta
 - Child delivered, cord ligated, returned to the uterus
 - No attempts to detach placenta, no uterotonics used
 - GA
 - Hysteroraphy, hysterectomy, reconstruction of the urinary tract
 - Uterus and placenta sent to HP

Results



Table 2. Diagnosis of Abnormally Invasive Placenta – How and when

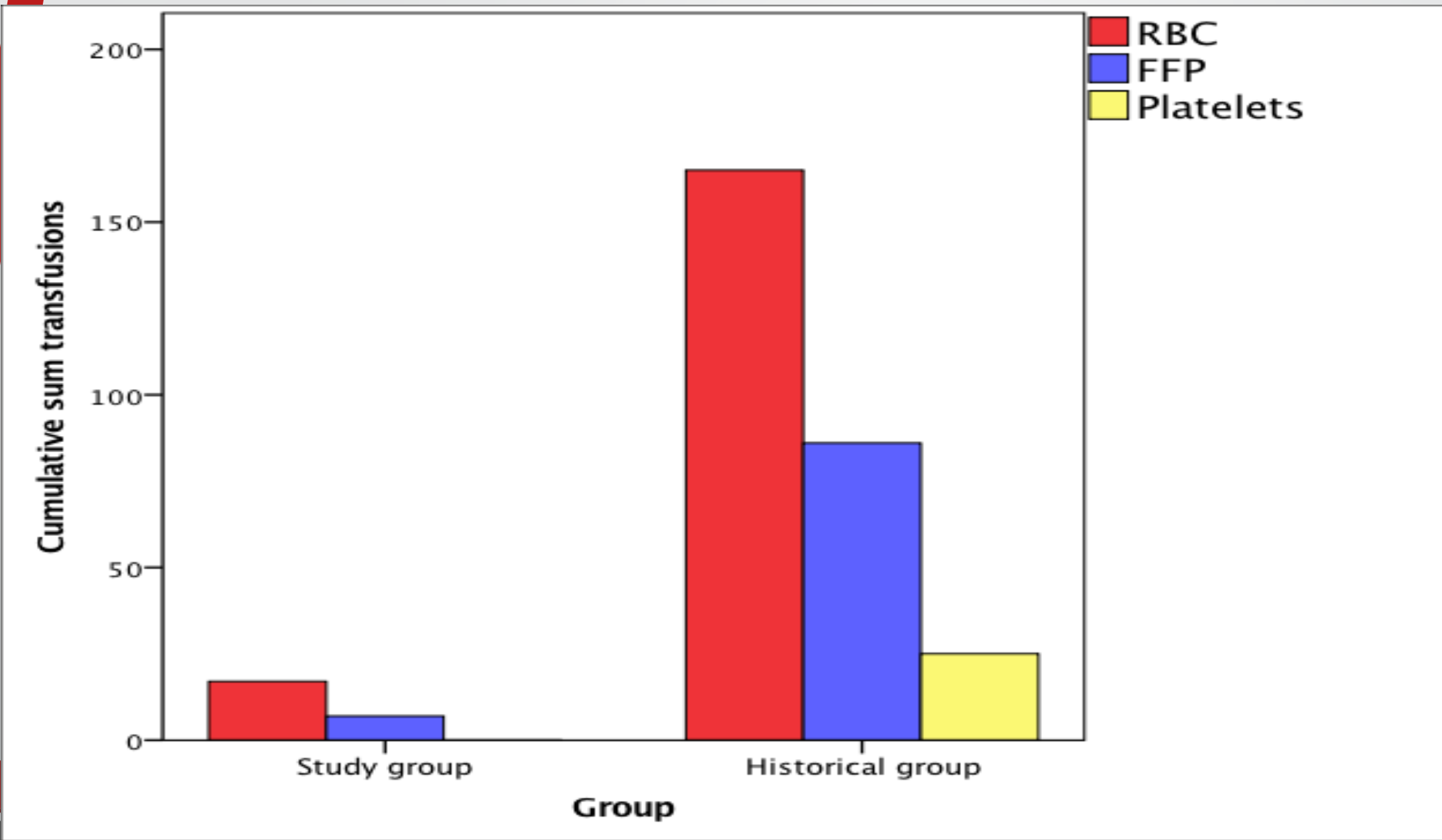
Diagnosis	Study group (n = 10)	Control group (n = 9)
Antenatally (n)	10	1
Intraoperatively (n)	0	9
Ultrasound (n)	8	1
Ultrasound/MR (n)	2	0

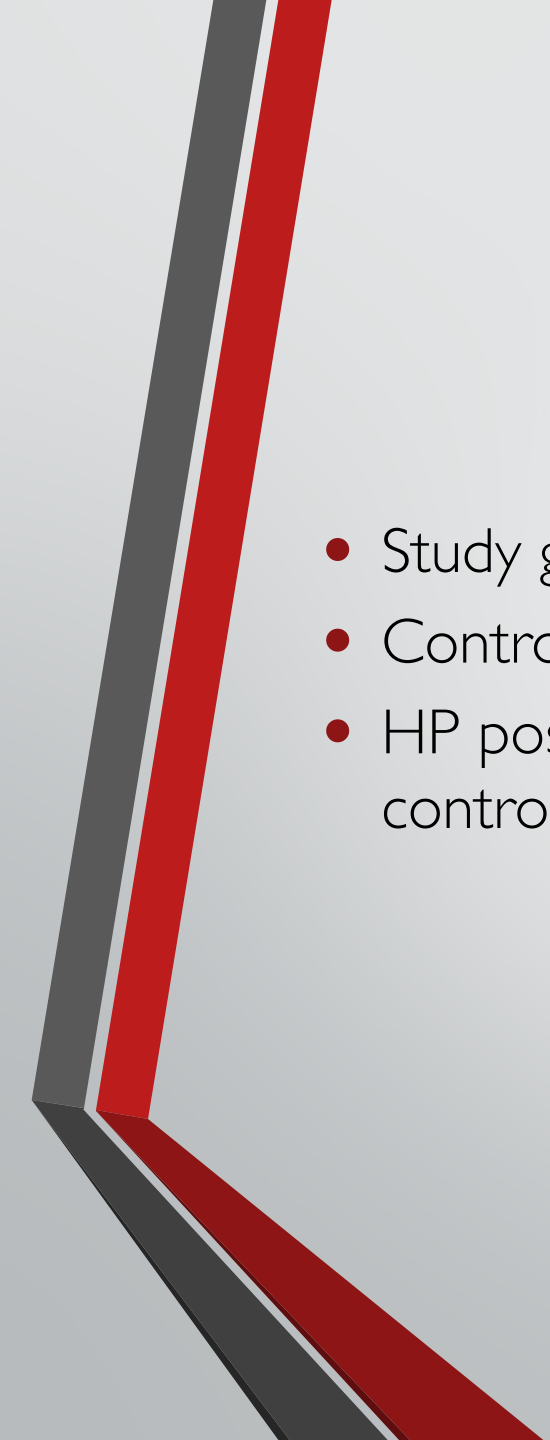
Data are shown in numbers (n) of patients

Table 3. Operation and bleeding characteristics

	Study group (n = 10)	Control group (n = 9)	p-value
Time to delivery (minutes)	44 (6 – 119)	5 (1 – 42)	0,034
Surgery time (minutes)	161 (114 – 408)	131 (25 – 543)	ns
Estimated blood loss (mL)	1400 (400 – 3000)	8000 (2300 – 40000)	0,001
Packed red blood cells (units)	1 (0 – 6)	16 (0 – 98)	0,004
Fresh frozen plasma (units)	0 (0 – 4)	10 (0 – 53)	0,010
Platelets (units)	0 (0 – 0)	2,5 (0 – 16)	0,031
Hospital stay mother (days)	7 (3 – 15)	10 (4 – 43)	ns


Data are shown as median (range) and number (n)



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- Study group: no postoperative complications
 - Control group: 5/9 patients had postoperative complications
 - HP positive in 7/10 patients in study group (4 had percreta) and in 6/9 in control group

Conclusion

- Standardized multidisciplinary approach in the management of AIP renders: striking reduction in blood loss, transfusion need, postoperative complications

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- Recognition / suspicion of AIP should be referred to a unit with experience and an established standardized multidisciplinary approach for such management

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• TACK!