

Plasenta Previa/Akreat Yönetimi

Dr. Nuri Danişman

Plasenta previa/akreata yönetimi

- Sorunun boyutları
- Risk faktörleri
- Antenatal tanı
- Doğum zamanlaması
- İntraoperatif yaklaşım
 - standart cerrahi
 - konservatif yaklaşım
- Sonuç

Plasenta akreata

- İlk kez 1937 yılında tanımlanmış.
- 1970 1/4207 (ACOG,Com. Op. No:529,2013)
- 1980 1/2510 (ACOG,Com. Op. No:529,2013)
- 1990 1/833 (Brettle, 2005)
- 2000 1/533 (Wu,2005)

Plasenta akreata

- Hastanemizde :

- 1985 – 1989: Histerektomilerin % 25.5'i (11/43)
genel insidans : 1/9784 (Zorlu, 1994)

- 1989 – 1994: Histerektomilerin % 41.7'si (10/24)
genel insidans : 1/10320 (Zorlu, 1994)

- 2003 -2008: Histerektomilerin % 41.2'si (31/73)
genel insidans : 1/3700 (Karayalçın, 2011)

- 2008 – 2013: Histerektomilerin % 56'sı (27/48)
genel insidans : 1/3501 (Danışman,2014)

2014 ilk 8 ay 36 obst. histerektomi , **24 pre.akr. %66**

Risk faktörleri

- Myometrial doku hasarı, sekonder kollajen tamiri
 - Sezaryen
 - D/C
 - Myomektomi
 - Endometrial ablasyon
- Multiparite
- İleri maternal yaş

ACOG, committee opinion no: 529

Risk faktörleri

Table 2. Link between number of previous caesarean sections and risk of placenta accreta, placenta praevia and hysterectomy¹²⁷

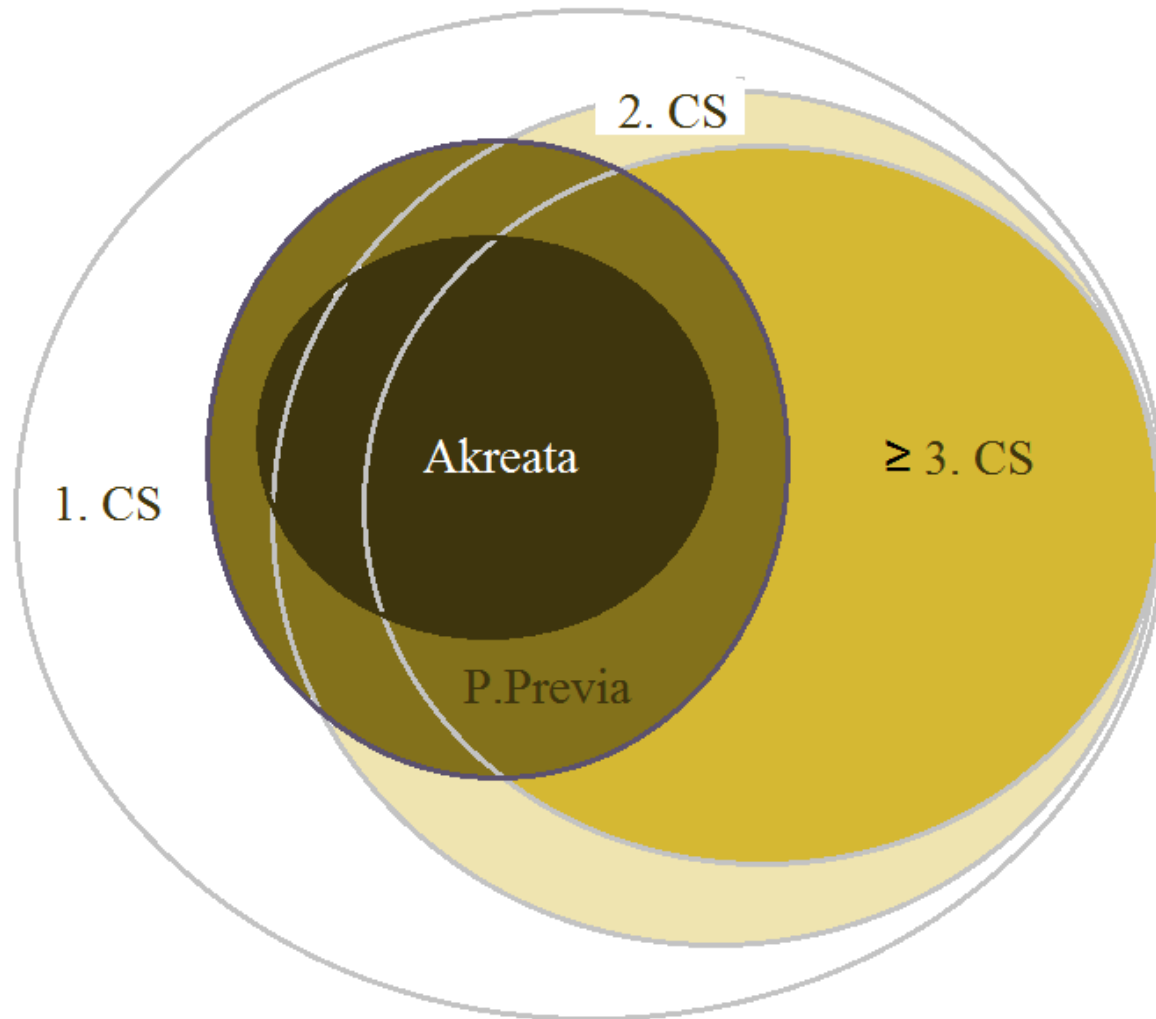
Number of previous caesarean section(s)	Number of women	Number of women with placenta accreta	Chance of placenta accreta if placenta praevia	Number of hysterectomies
0	6201	15 (0.24%)	3%	40 (0.65%)
1	15 808	49 (0.31%)	11%	67 (0.42%)
2	6324	36 (0.57%)	40%	57 (0.9%)
3	1452	31 (2.13%)	61%	35 (2.4%)
4	258	6 (2.33%)	67%	9 (3.49%)
5	89	6 (6.74%)	67%	8 (8.99%)

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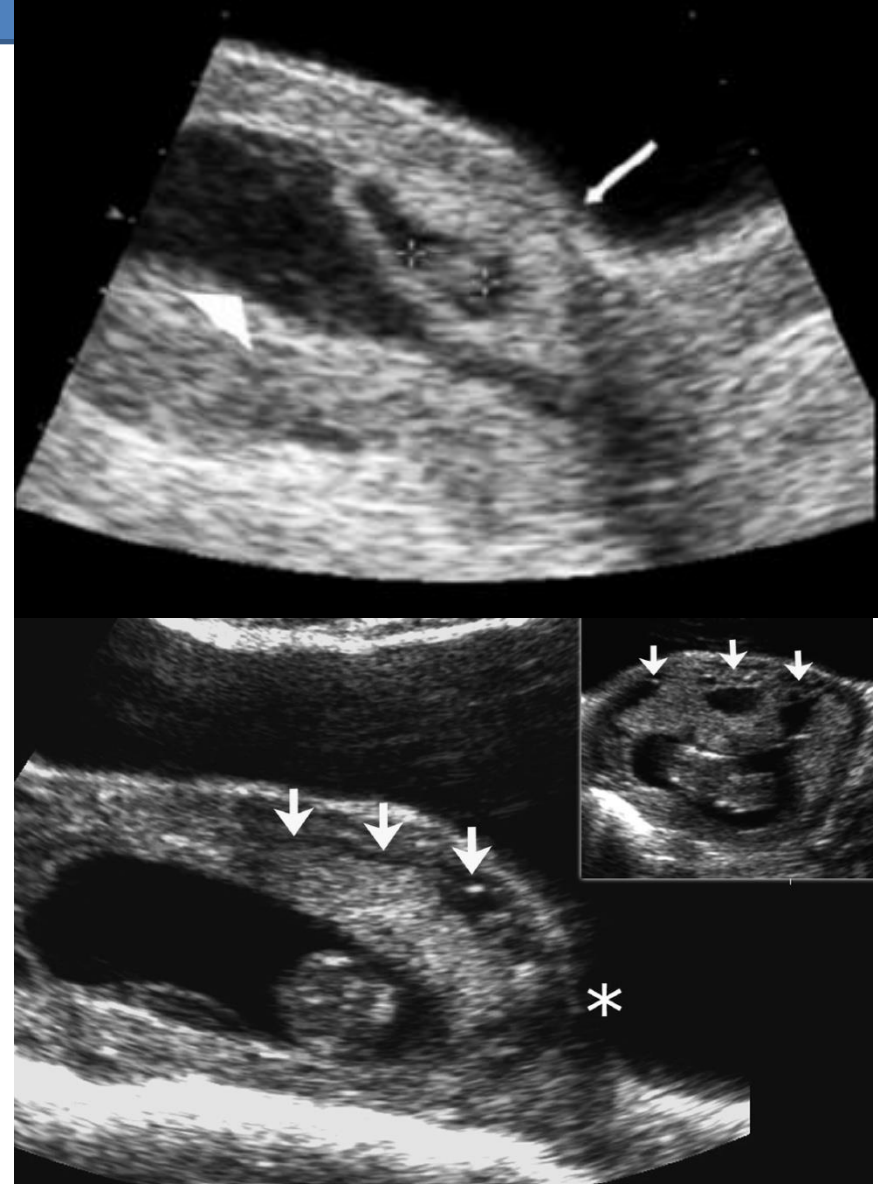
January 2011

Risk faktörleri



Antenatal Tanı

- 1. trimester
 - Yerleşmiş objektif bir kriter yok
 - Aşağı ve anterior yerleşimli kese (Comstock,2003)
 - Erken lakuna (Ballas,2013)



Antenatal Tanı

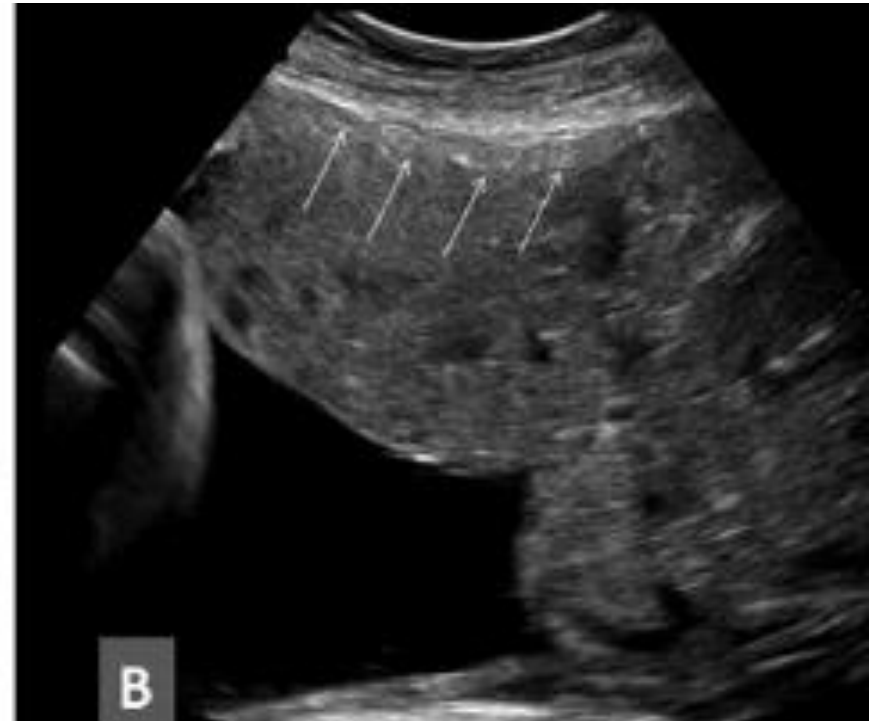
- 2. ve 3. trimester
 - Plasenta myometrium arasında hipoekoik sahanın yokluğu
 - Düzensiz mesane sınırları
 - Lakuna
 - İnce myometrium

Antenatal Tanı

- Plasenta myometrium arasında hipoekoik sahanın yokluđu
 - Akkreat a olgularının % 100' ünde hipoekoik alan izlenmez.
 - % 65 yalancı pozitif; özellikle plasenta anterior yerleşimli ise.

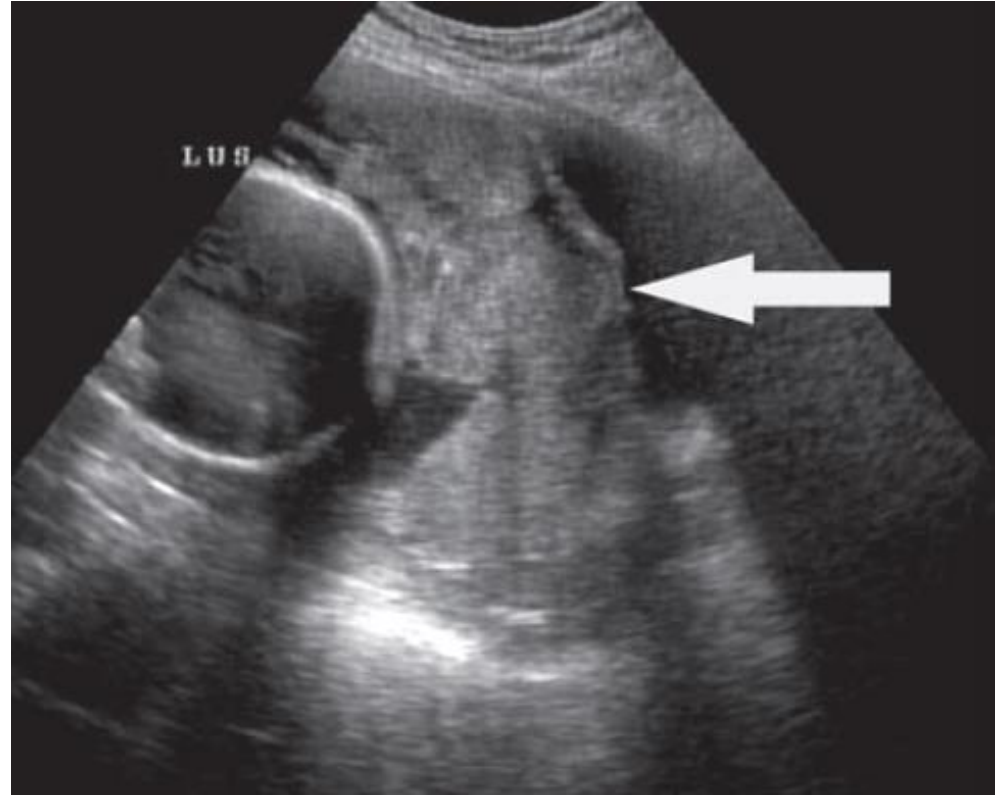


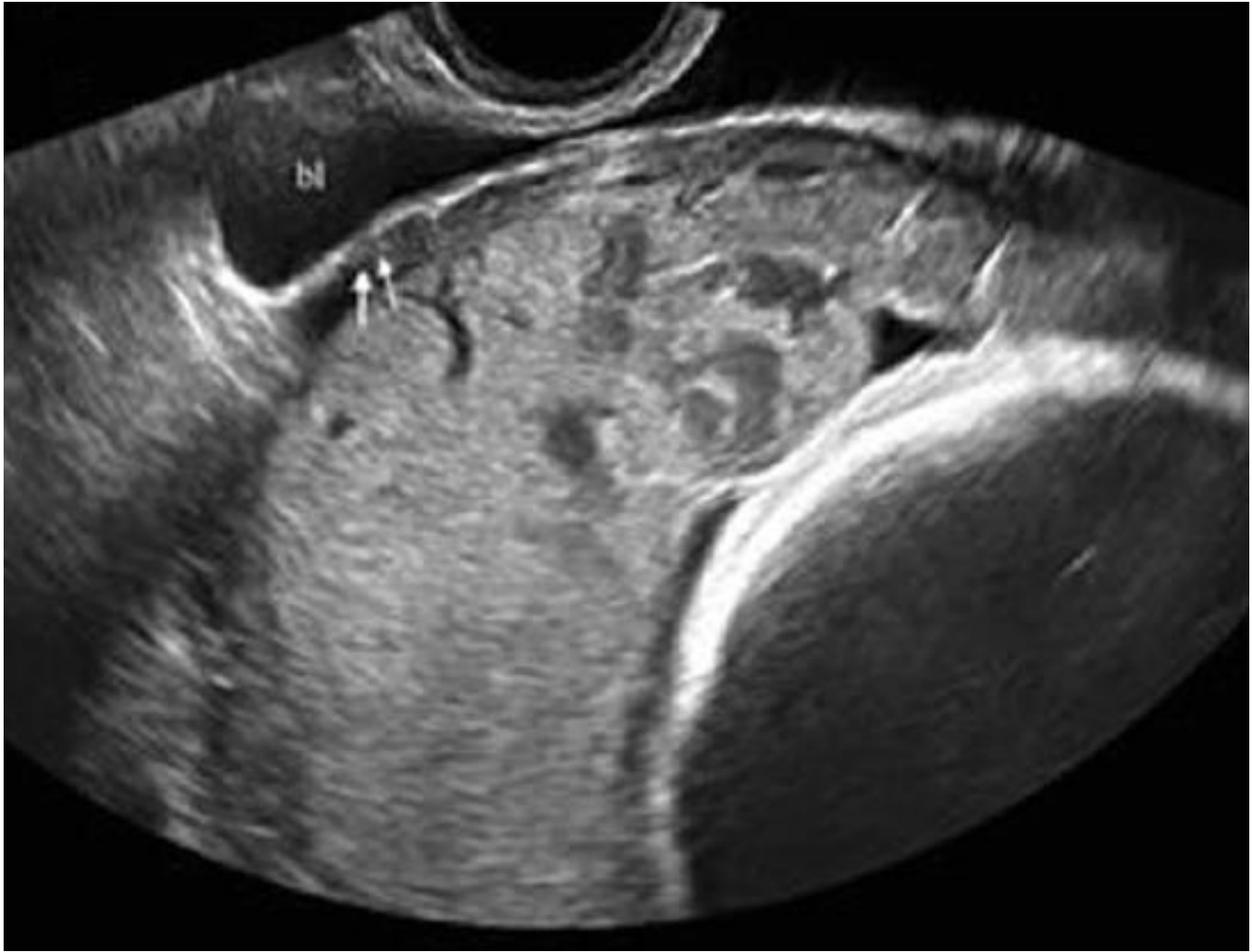
Antenatal Tanı



Antenatal Tanı

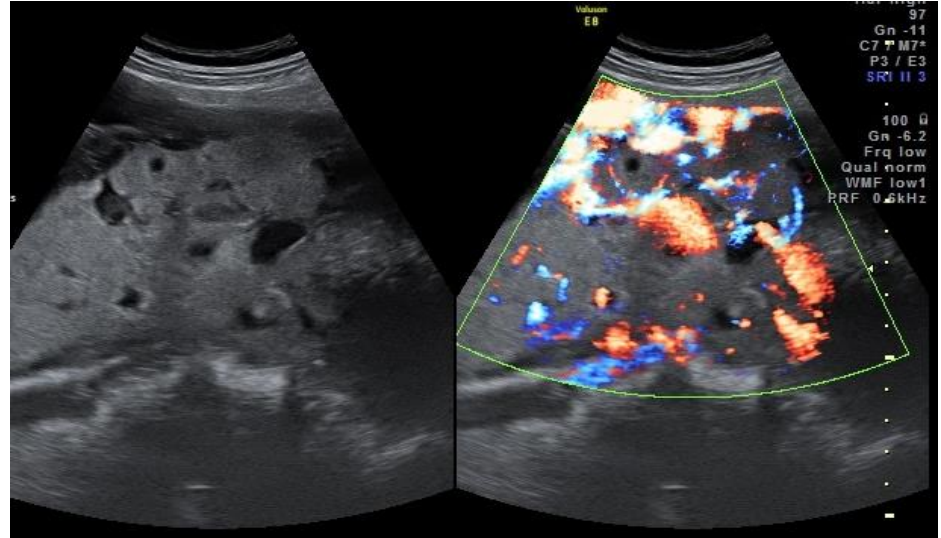
- Düzensiz mesane sınırları
 - Artmış vaskülarite nedeniyle oluşur.
 - Transvaginal usg ve Doppler ile daha iyi tanınabilir.
 - Düzensiz mesane sınırları yaygın olmadıkça PERKREATA' yı göstermez





Antenatal Tanı

- Plasental lakuna
 - Düzensiz şekilli,
 - Düşük direnç, hızlı akım.
 - İkinci trimesterden itibaren saptanabilir



Antenatal Tanı

- İnce Myometrium





Plasenta Akreata
12428-14-01-06-3

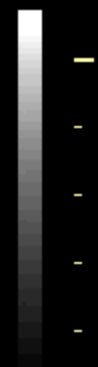
4C-A/OB
13.3cm / 24Hz

MI 1.2
TIs 0.1

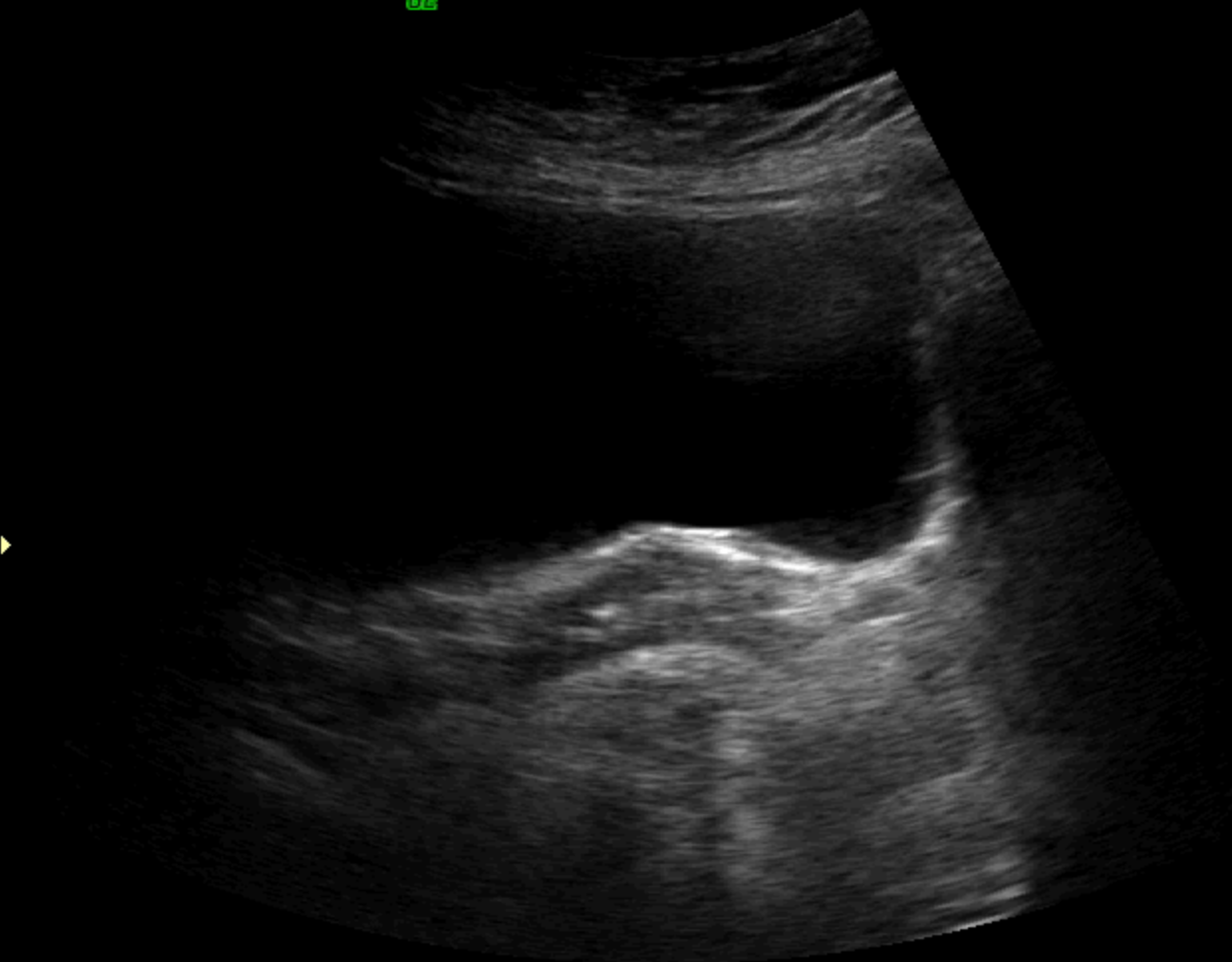
Z.T.B. PERINATOLOJI
06.01.2014 12:37:19

Routine
Har-mid
Pwr 100 dB
Gn 4
C5 / M5+
P2 / E3
SRI II 3

J95
COMP



GE



7.0 sec



Plasenta Akreata

4C-A/OB

MI 1.2

Z.T.B. PERINATOLOJI

J95

12428-14-01-06-3

13.3cm / 24Hz

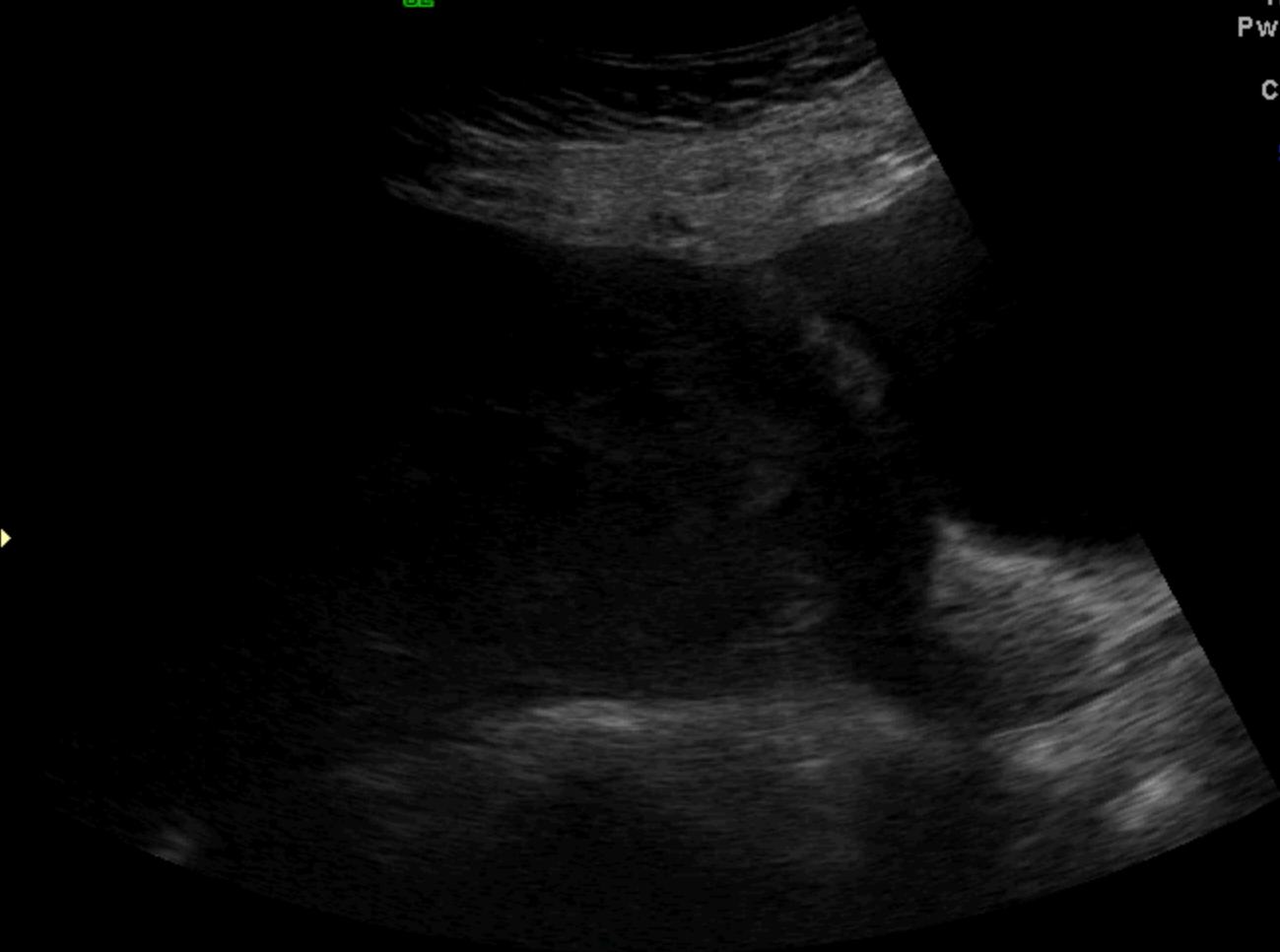
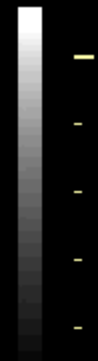
TIs 0.1

06.01.2014 12:37:53

COMP

GE

Routine
Har-mid
Pwr 100 dB
Gn 4
C5 / M5+
P2 / E3
SRI II 3



2.7 sec



Plasenta Akreata
12428-14-01-06-3

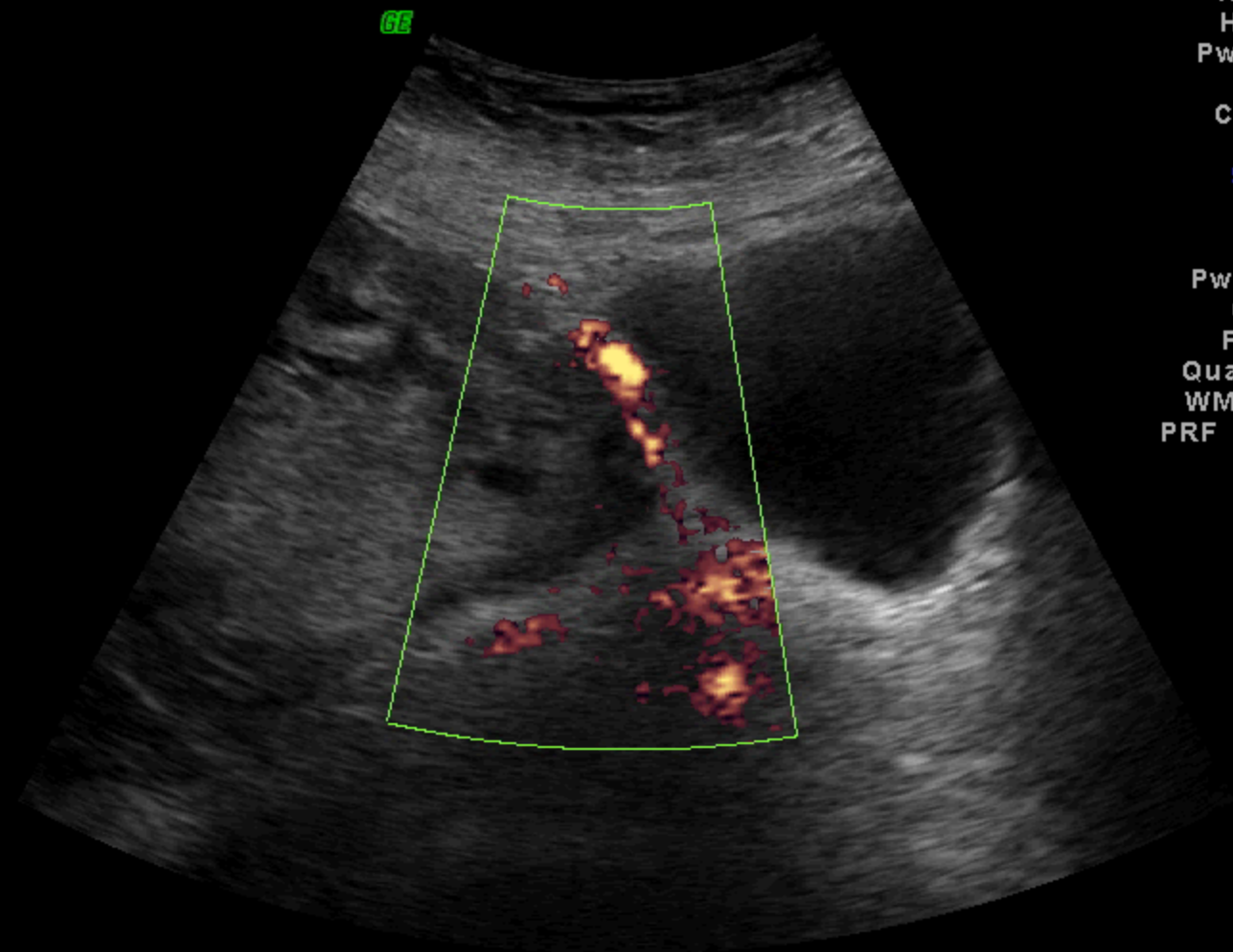
4C-A/OB
13.3cm / 10Hz

MI 1.0
TIs 0.5

Z.T.B. PERINATOLOJI
06.01.2014 12:39:01

Routine
Har-mid
Pwr 94 %
Gn 4
C5 / M5*
P2 / E3
SRI II 3

Pwr 100 %
Gn 2.4
Frq mid
Qual norm
WMF low2
PRF 2.4kHz



10 sec



Plasenta Akreata
12428-14-01-06-3

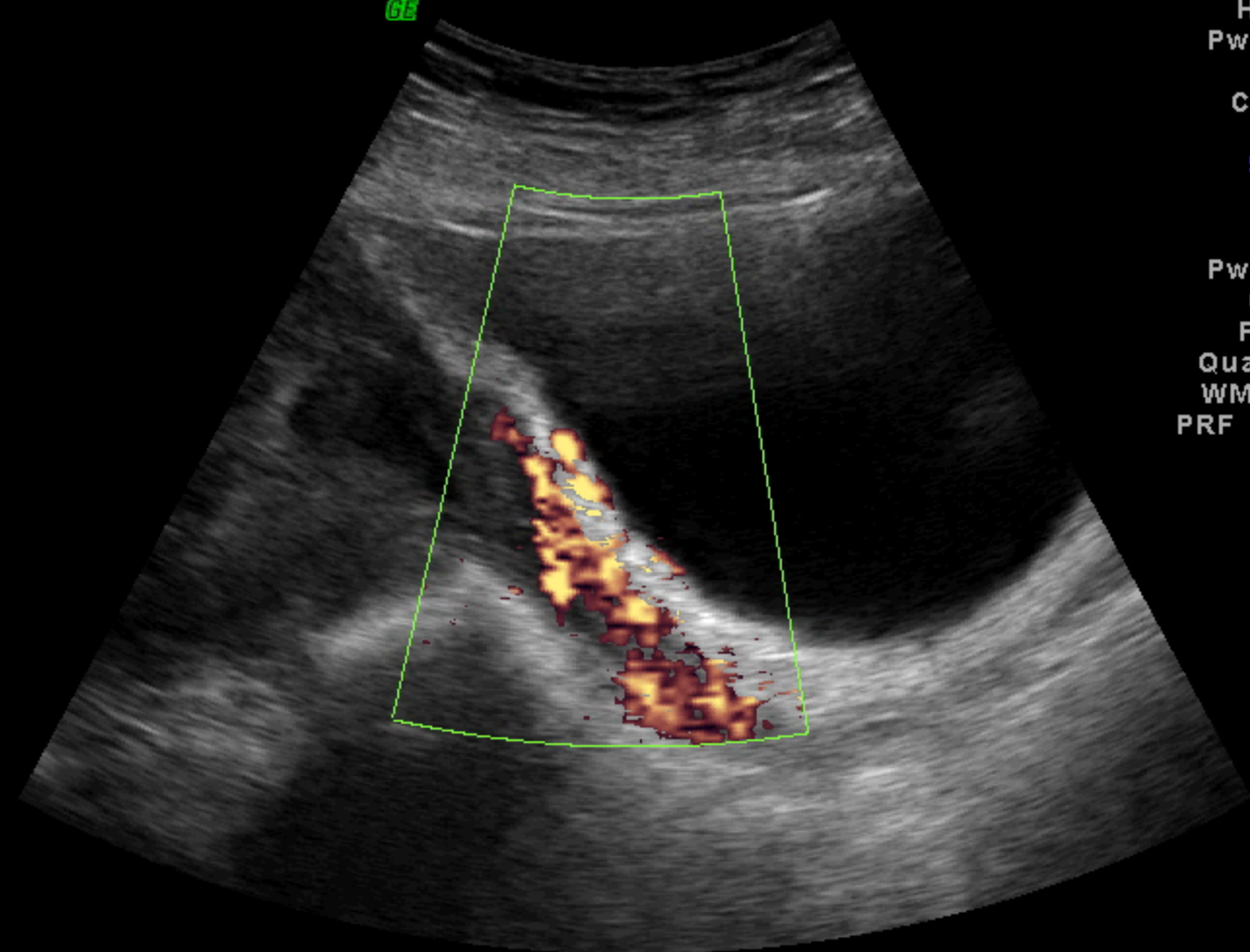
4C-A/OB
13.3cm / 11Hz

MI 1.2
TIs 0.5

Z.T.B. PERINATOLOJI
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Routine
Har-mid
Pwr 100 dB
Gn 4
C5 / M5+
P2 / E3
SRI II 3

Pwr 100 dB
Gn 2.4
Frq mid
Qual norm
WMF low2
PRF 1.8kHz



1.8 sec



Total Previa

4C-A/OB

MI 1.2

Z.T.B. PERINATOLOJI

J95

12428-14-02-28-1

11.7cm / 13Hz

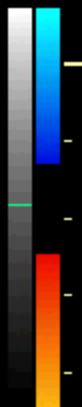
TIs 0.4

28.02.2014

08:59:57

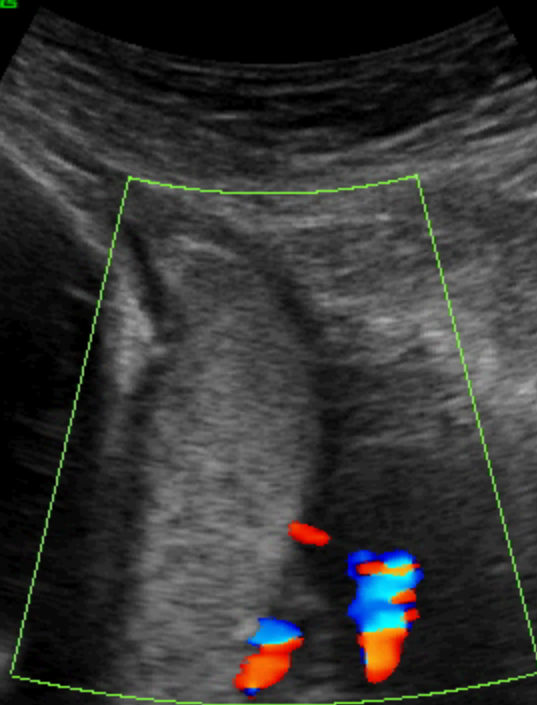
COMP

34cm/s



-34cm/s

GE



Routine
Har-mid
Pwr 100 %
Gn 4
C5 / M5
P2 / E3
SRI II 3

Pwr 97 %
Gn -0.0
Frq mid
Qual high
WMF high1
PRF 2.4kHz

8.4 sec



Total Previa

4C-A/OB

MI 1.2

Z.T.B. PERINATOLOJI

J95

12428-14-02-28-1

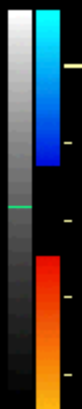
11.7cm / 12Hz

TIs 0.4

28.02.2014 09:00:43

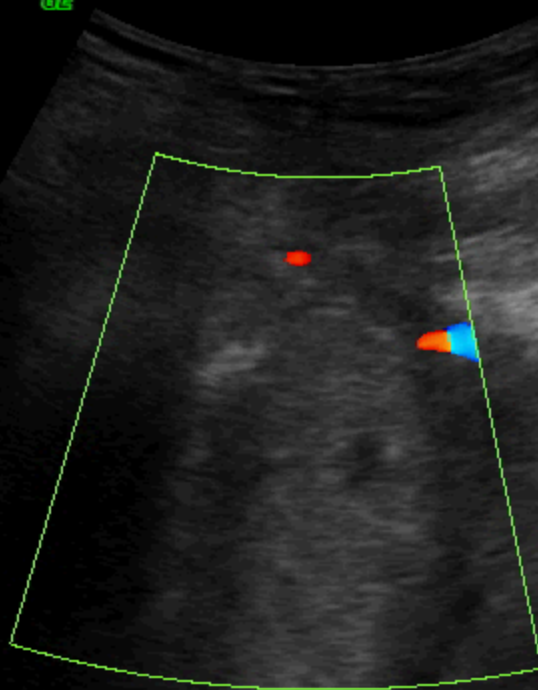
COMP

34cm/s



-34cm/s

GE



Routine
Har-mid
Pwr 100 %
Gn 4
C5 / M5
P2 / E3
SRI II 3

Pwr 97 %
Gn -0.0
Frq mid
Qual high
WMF high1
PRF 2.4kHz

11 sec

Tanı: Doppler

Renkli Doppler

- Lakunalarda türbülant akım (PSV > 15 cm/sn).
- Subplasental dilate damarlar.
- Mesane sınırında artmış vaskülarizasyon.

3D power doppler

- Mesane sınırında çok sayıda damarsal yapı.
- Hipervaskülarite ve kaotik damarlanma.

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Tani

Table 1. Diagnostic performance of different ultrasound modalities

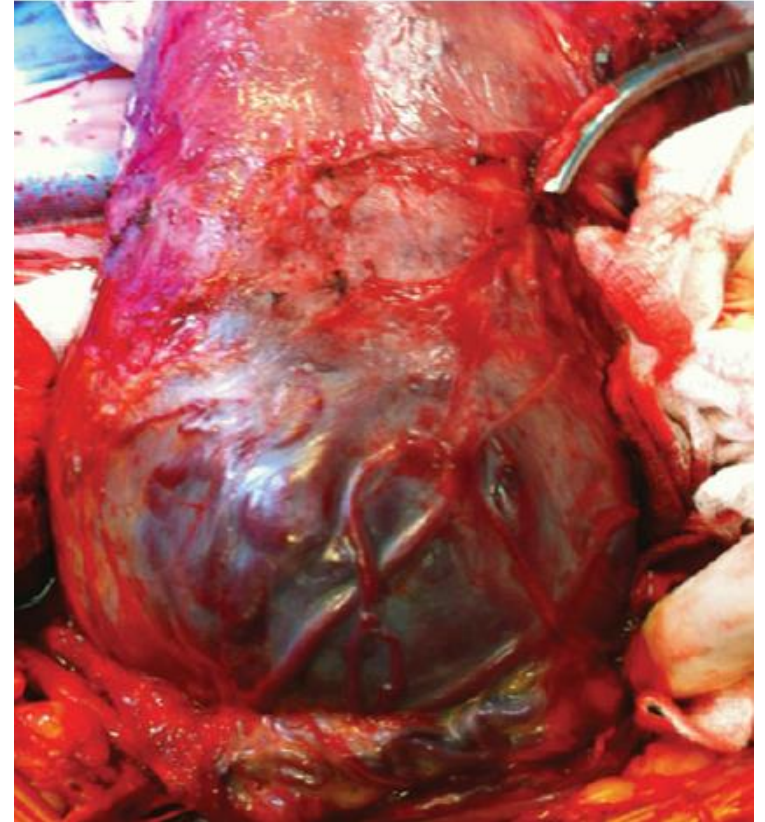
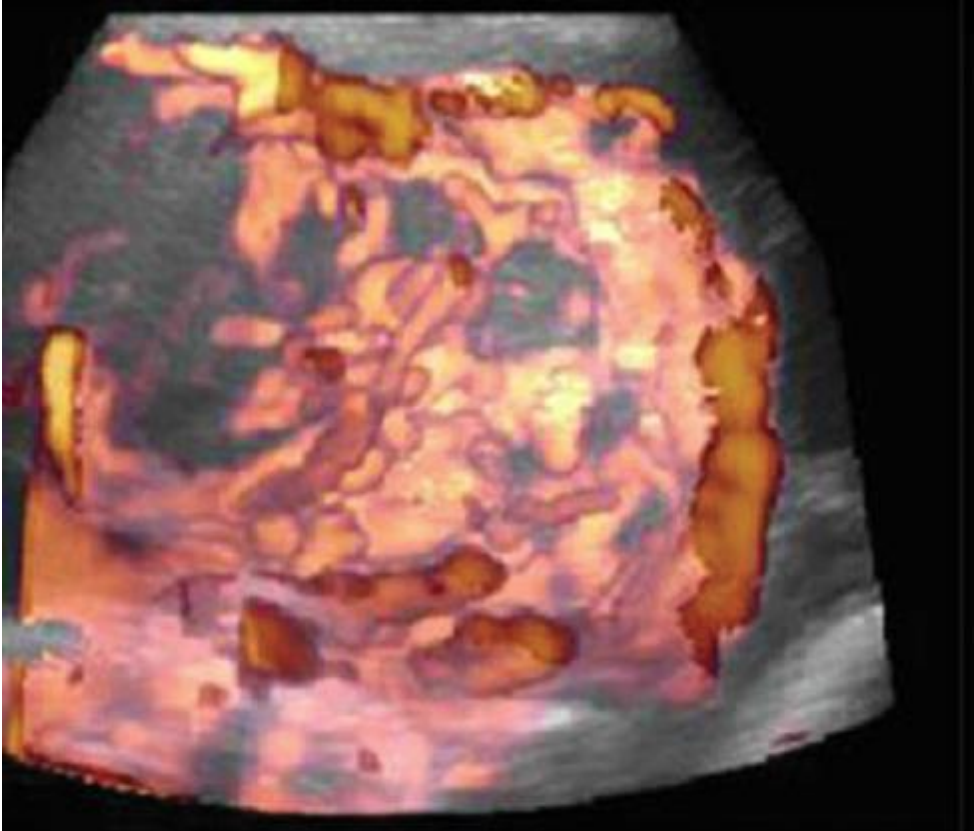
	Sensitivity (%)	Specificity (%)	Positive predictive value (%)	Risk
Greyscale	95	76	82	93
Colour Doppler	92	68	76	89
Three-dimensional power Doppler	100	85	88	100

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January 2011

Tanı:3B Doppler



Calì et al. Ultrasound Obstet Gynecol 2013; 41: 406–412.

Tanı

	Sensitivite	Spesifisite	PPV	NPV
Hipoekoik zon yokluğu	73-100	35-80	14-57	96-100
Düzensiz mesane sınırları	11-70	99-100	75-100	88-92
Plasental lakuna	73-100	28-86	21-94	88-100
Myometrial kalınlık < 1	22-100	72-100	72-100	89-100

DOĞUM ZAMANLAMASI

Effectiveness of Timing Strategies for Delivery of Individuals With Placenta Previa and Accreta

Barrett K. Robinson, MD, MPH, and William A. Grobman, MD, MBA

- 3 çalışma 400 akreata olgusunun verileri kullanılmış.
- Çeşitli tedavi modelleri sonrası antepartum kanama nedeniyle acil sezaryen, histerektomi ve neonatal morbidite riski araştırılmış

Effectiveness of Timing Strategies for Delivery of Individuals With Placenta Previa and Accreta

Barrett K. Robinson, MD, MPH, and William A. Grobman, MD, MBA

Table 1. Delivery Strategies

Strategy	Gestational Age at Scheduled Delivery (wk)
1	34 after steroid administration
2	35 after steroid administration
3	36
4	36 pending amniocentesis
5	37
6	37 pending amniocentesis
7	38
8	38 pending amniocentesis
9	39

Effectiveness of Timing Strategies for Delivery of Individuals With Placenta Previa and Accreta

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Table 4. Probabilities and Relative Risks for Maternal Outcomes

Outcome	Value
PPV of ultrasound for accreta ³	0.65 (0.49–0.78)
Antepartum hemorrhage requiring delivery 34–35 wk ^{13,14,16,33}	0.18* (0–.30)
Antepartum hemorrhage requiring delivery 35–36 wk ^{13,14,16,33}	RR=1.0
Antepartum hemorrhage requiring delivery 36–37 wk ^{13,14,16,33}	RR=1.4
Antepartum hemorrhage requiring delivery 37–38 wk ^{13,14,16,33}	RR=1.96
Antepartum hemorrhage requiring delivery 38–39 wk ^{13,14,16,33}	RR=1.96

Table 3. Probabilities and Relative Risks for Fetal, Neonatal, Outcomes

Outcome	Probability or Relative Risk
RDS rate at 34 wk (with betamethasone) ^{18,26,27}	.064* (0.02–0.104)
RDS rate at 35 wk (with betamethasone) ¹⁸	RR=0.50
RDS rate at 34 wk without betamethasone ¹⁷	RR=2.05
RDS rate at 35 wk without betamethasone ¹⁷	RR=1.00
RDS rate at 36 wk without betamethasone ¹⁷	RR=0.50
RDS rate at 37 wk without betamethasone ¹⁷	RR=0.07
RDS rate at 38 wk without betamethasone ¹⁷	RR=0.0055

Effectiveness of Timing Strategies for Delivery of Individuals With Placenta Previa and Accreta

Barrett K. Robinson, MD, MPH, and William A. Grobman, MD, MBA

- 34–37 haftada doğum.
- 34 haftadan sonra antenatal steroid ve doğum (Çoğu hasta).
- 37 haftada doğum (akreata şüpheli, kanama riski düşük hastalar).
- 36 haftaya ulaşmış hastalarda pulmoner maturasyon testlerinin faydası yok

Doğum zamanlaması

- Kanama nedeniyle acil girişim riski (37hf. sonra %40-90)
- 32hf. önce kanama nadir
- Plasenta previa 38-39hf, plasenta akreata 36hf (RCOG)
- ACOG'un net bir önerisi yok: pulmoner maturasyon bakılmadan steroid ile 34+ hafta!!

Cerrahi yönetim

- Deneyimli obstetrik cerrah
- Gereğinde vasküler cerraha, üroloğa ulaşabilme
- Deneyimli obstetrik anesteziist
- Kan ve kan ürünleri
- Yoğun Bakım
- Yenidoğan yoğun bakım

Cerrahi yönetim

- GA-ÜM kesi
- Plasentadan uzak uterus insizyonu
- **Plasentaya dokunma (ektirpasyon ciddi kanamaya neden olur)**
- Histerektomi planı

Histerektomi

- Plasentayı yerinde bırak
- Uterusu hızla kapat
- Mesane hazırlığını arter ligasyonundan sonra yap (ACOG)
- Cerrahiye tehlikeye sokacak invazyon varsa veya obstetrik hikaye gerektiriyorsa konservatif tedavi düşün (RCOG)

AOGS COMMENTARY

Important surgical measures and techniques at cesarean hysterectomy for placenta previa accreta

SHIGEKI MATSUBARA^{1,*}, TOMOYUKI KUWATA¹, RIE USUI¹, TAKASHI WATANABE¹, AKIO IZUMI¹, AKIHIDE OHKUCHI¹, MITSUAKI SUZUKI¹ & MANABU NAKATA²

Table 1. Summary of the procedures.

-
1. Placement of intra-iliac arterial occlusion balloon catheters
 2. Placement of ureter stents
 3. Employment of "holding the cervix" to identify the site to be transected
 4. Uterine fundal incision to deliver an infant
 5. Avoidance of uterotonics after infant delivery
 6. Employment of "M cross double ligation" for ligating the ovarian ligament
 7. Employment of "filling the bladder" to identify the bladder separation site and "opening the bladder" for placenta previa percreta with bladder invasion
 8. To continue to clamp the medial side of the parametrium or the cervix or employment of the "double edge pick-up" to ligate it.
-

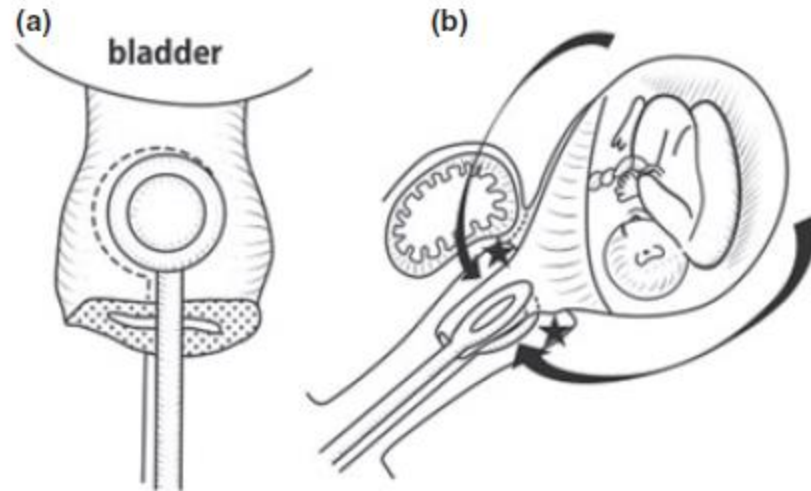
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¹Departments of Obstetrics and Gynecology, and ²Radiology, Jichi Medical University, Shimotsuke, Japan

- Vajinal kanamanın engellenmesi
 - Serviks sınırlarının ayırt edilmesi
 - Alternatif olarak arka fornikse tampon (bizim uygulamamız)



AOGS COMMENTARY

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- Sezaryen histerektomide uterotonik uygulaması
 - Tartışmalı
 - Yazarlara göre: plasentanın kısmi ayrılmasını indükler, abondan kanamaya neden olur
 - Ancak RCOG görece atonik alt segmentten kan kaybını azalttığı için uterotonik kullanımını öneriyor.

AOGS COMMENTARY

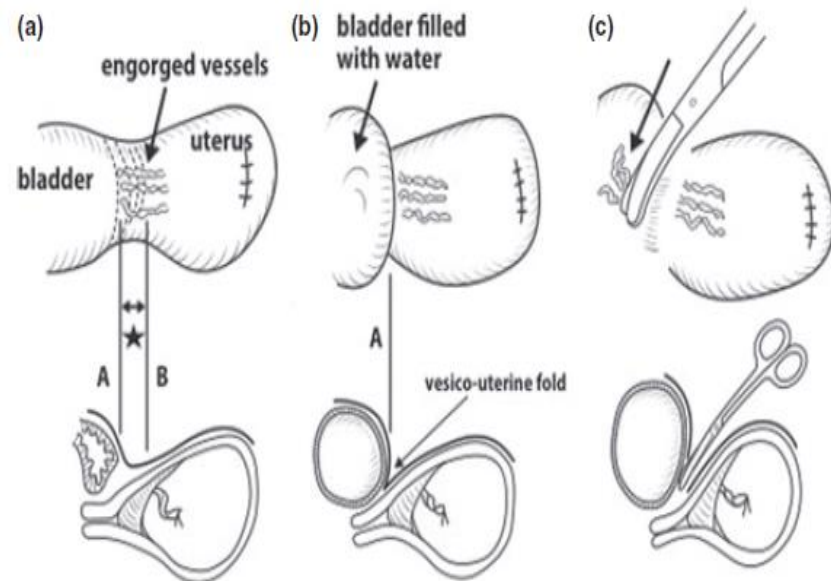
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- Mesanenin dolu olması

- Mesane planının belirlenmesi



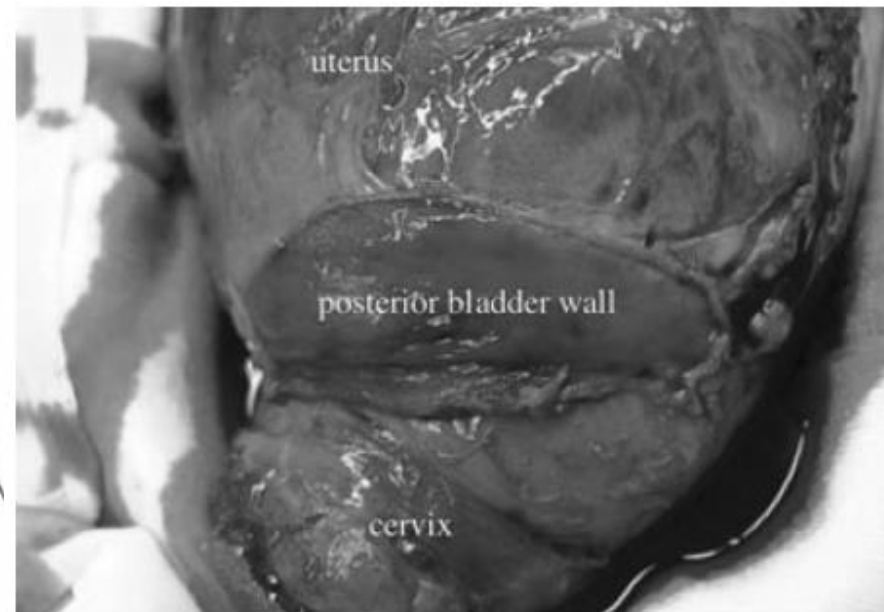
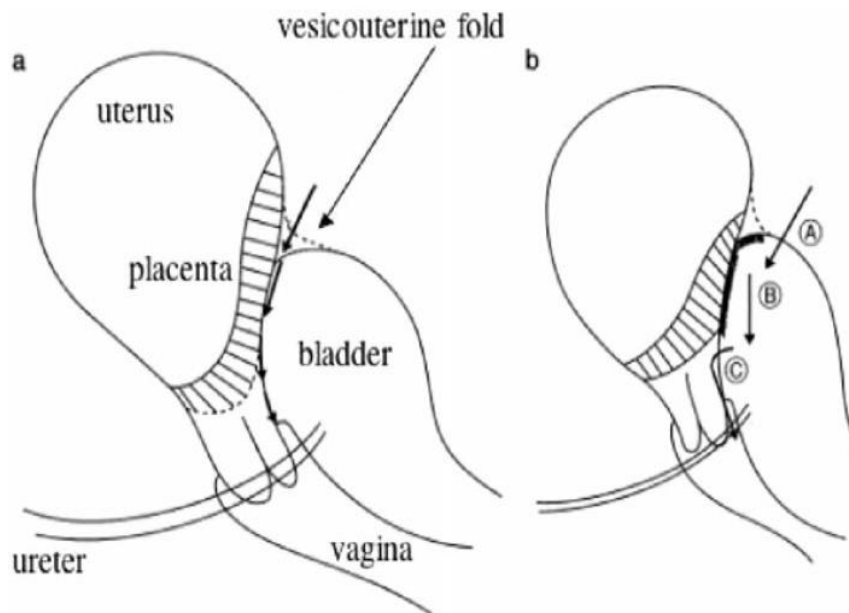
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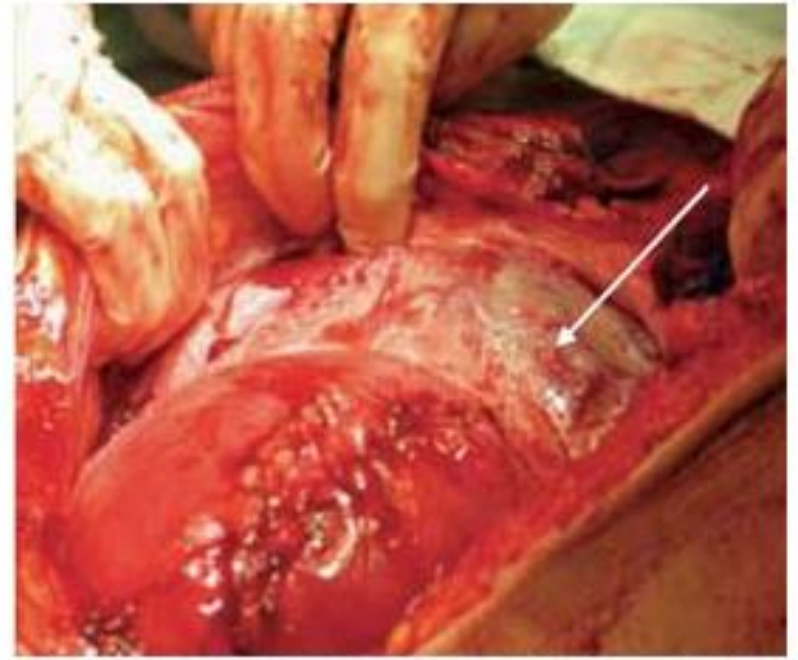
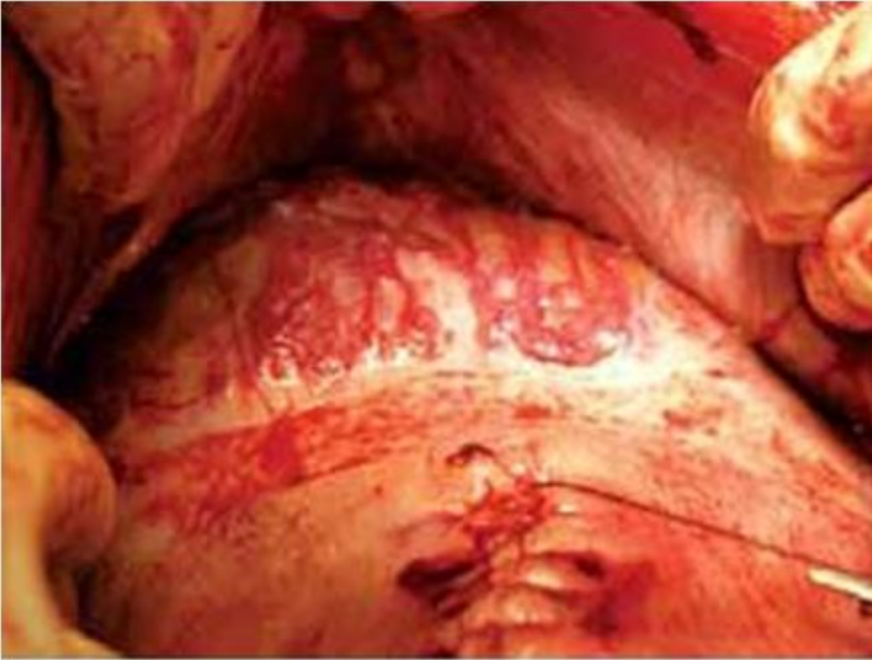
¹Departments of Obstetrics and Gynecology, and ²Radiology, Jichi Medical University, Shimotsuke, Japan

- Kasıtlı sistostomi



Konservativ Tedavi

Obsterik hikaye ve çocuk isteđi



Konservativ davranmak zorunda kalmak

Management of placenta accreta: Morbidity and outcome

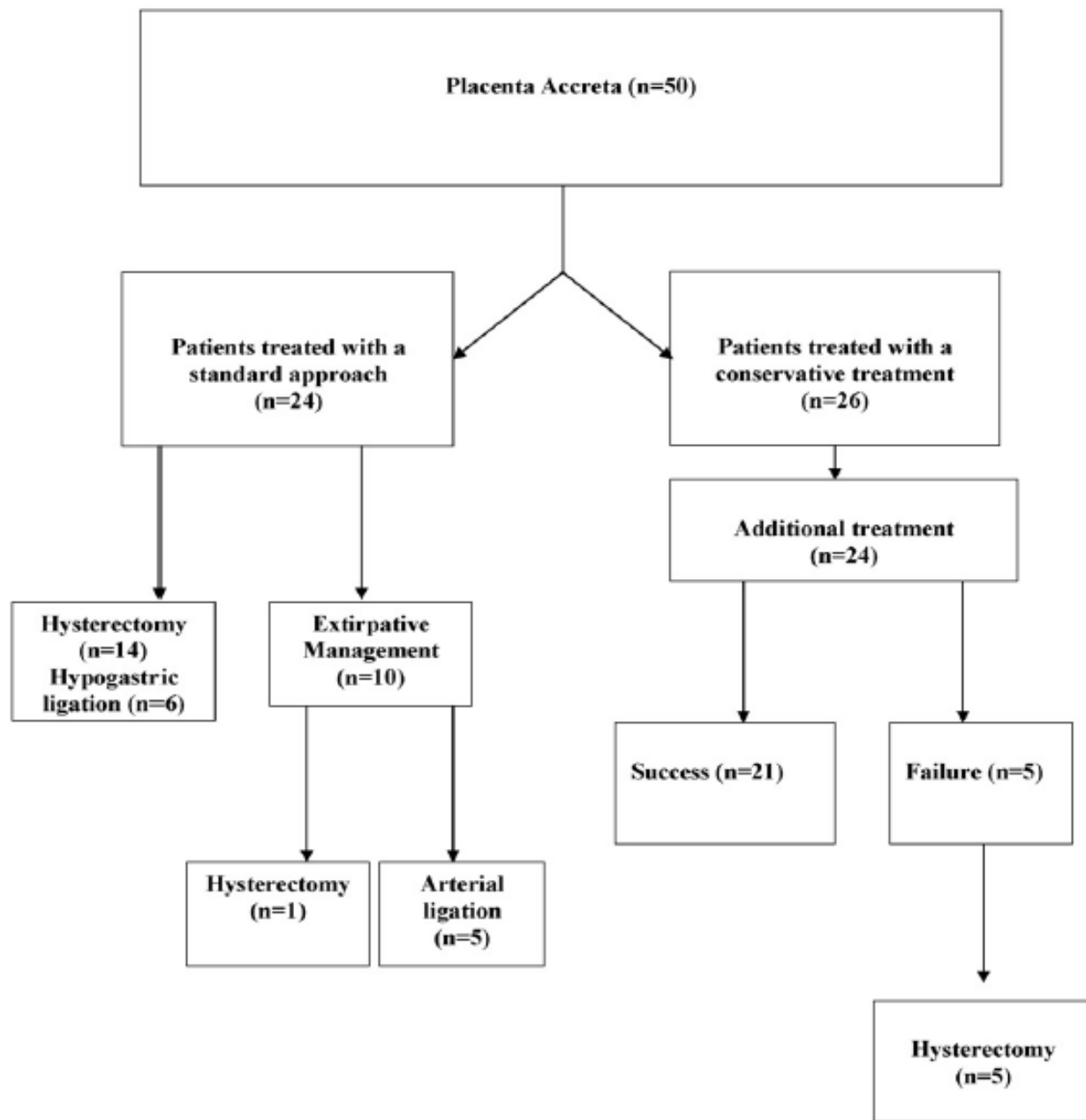
Florence Bretelle^{a,b,*}, Blandine Courbière^a, Chafika Mazouni^a, Aubert Agostini^a,
Ludovic Cravello^a, Léon Boubli^b, Marc Gamberre^a, Claude D'Ercole^b

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- İki üniversite hastanesi 10 yıl (1993-2003)
- 41000 doğum
- 50 plasenta akreata (7 perkreata)(%0,12)
- 26 hastaya konservativ yaklaşım (4 perkrata)



Additional procedure in conservative treatment of placenta accreta

	Number of cases (<i>n</i> = 26)	Adjuvant MTX
BLHA	6	2
Arterial ligation	7	2
Embolization	4	–
MTX	1	–
Oxytocin	2	–
Oxytocin and PGE2	6	–
No additional treatment	2	

BLHA, bilateral ligation of hypogastric arteries; AL, Tsurulnikov arterial ligation; MTX, isolated methotrexate treatment. Oxytocin, oxytocin and PGE2 was administered in addition to BLHA, AL and MTX. A patient can have more than one treatment.

Hasta özellikleri

Histerektomi / plasental ekstirpasyon (24 hasta)

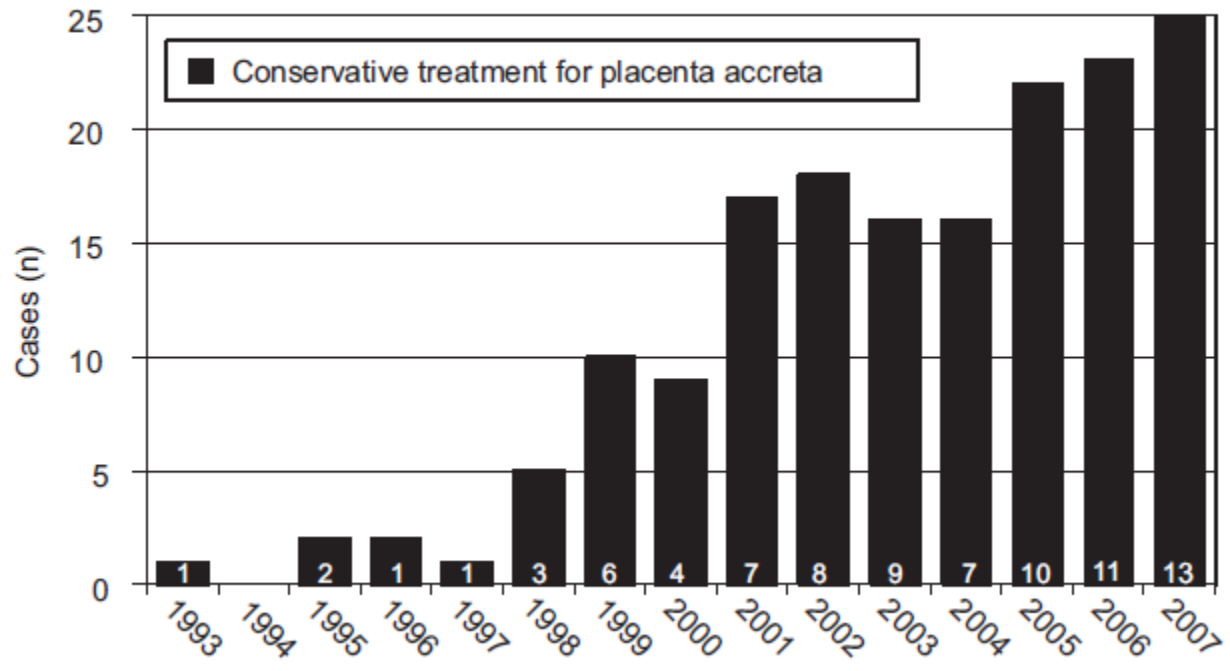
- Kanama : 10
- Anne yaşı >37 : 6
- Fertilité istemeyen : 4
- Cerrahın kons. deneyimsizliđi: 4

Konservativ yaklaşım (26 hasta)

- Şiddetli kanama yok : 10
- Çocuk istemi : 6
- Anne yaşı <37: 10

Tedavi başarısızlığı

- 5 olgu
- 3 hasta ilk iki saat içinde histerektomi
 - 1 hastada triple devaskülarizasyon (Round, uteroovaryan ligamanlar, uterin arter)
 - 2 hastada ek tedavi yok
- 2 hastada arterial embolizasyon sonrası komplikasyonlar
 - 1 hastada uterin nekroz
 - 1 hastada sol bacakta tromboz, antikoagülasyon ihtiyacı nedeniyle histerektomi



Maternal Outcome After Conservative Treatment of Placenta Accreta

- Fransa , 40 üniversite hastanesi, retrospektif
- Önceki çalışmayı kapsıyor.
- 14 yıl (1993-2007)
- 311 plasenta akreata
- 167 konservatif tedavi (139 C/S, 28 vaginal)

Characteristic	Placenta Accreta, Including Percreta (n=167)
Hysterotomy (n=139)	
Fundal	71 (51.1)
Low transverse	68 (48.9)
Placenta left in situ	167 (100)
Partially	99 (59.3)
Entirely	68 (40.7)
Preoperative ureteric stent placement	6 (3.6)
Uterotonic administration	167 (100)
Primary postpartum hemorrhage	86 (51.5)
No additional uterine devascularization procedure	58 (34.7)
Additional uterine devascularization procedure	109 (65.3)
Pelvic arterial embolization*	62 (37.1)
Vessel ligation*	45 (26.9)
Stepwise uterine devascularization	15 (9.0)
Hypogastric artery ligation	23 (13.8)
Stepwise uterine devascularization and hypogastric artery ligation	7 (4.2)
Uterine compression suture*	16 (9.6)
Balloon catheter occlusion	0
Methotrexate administration	21 (12.6)

Table 4. Maternal Morbidity After Conservative Treatment for Placenta Accreta, Including Placenta Percreta

Characteristic	Placenta Accreta, Including Percreta (n=167)
<u>Primary hysterectomy</u>	<u>18 (10.8)</u>
Cause of primary hysterectomy	
Primary postpartum hemorrhage	18/18 (100)
Transfusion patients	70 (41.9)
Units of packed RBCs transfused more than 5	25 (15.0)
Sepsis*	7 (4.2)
Infection	47 (28.1)
Deep vein thrombophlebitis or pulmonary embolism	3 (1.8)
Secondary postpartum hemorrhage stopped after	18 (10.8)
Uterotonics	2/18 (11.1)
Manual exploration of the uterus	2/18 (11.1)
Hysteroscopy and curettage	2/18 (11.1)
Pelvic arterial embolization	4/18 (22.2)
Delayed hysterectomy	8/18 (44.5)
<u>Delayed hysterectomy</u>	<u>18 (10.8)</u>
Median interval from delivery to delayed hysterectomy (d)	22 (9–45)
Cause of delayed hysterectomy	
Secondary postpartum hemorrhage	8/18 (44.4)
Sepsis	2/18 (11.1)
Secondary postpartum hemorrhage and sepsis	3/18 (16.7)
Vesicouterine fistula	1/18 (5.6)
Uterine necrosis and sepsis [†]	2/18 (11.1)
Arteriovenous malformation	1/18 (5.6)
Maternal request	1/18 (5.6)
Death	1 (0.6)
<u>Success of conservative treatment</u>	<u>131 (78.4)</u>
<u>Severe maternal morbidity</u>	<u>10 (6.0)</u>

Konservativ tedavi kime?

- Randomize çalışmalar veya prospektif kohort çalışmalar yok.
- 1 retrospektif çalışma (Amsalem, 2011)
- 86 placenta accreta, 60 hasta acil – accidental
26 hastaya antenatal tedavi planlanmış
- Konservativ grup (n:10) histerektomi grubuna (n:16) göre:
 - Kan kaybı daha az (3625 ± 2154 vs. 900 ± 754 mL)
 - Diğer sonuçlar benzer (koagülopati, organ yaralanması)
 - Konservativ izlenen 4 hastada histerektomi

Management of placenta percreta: a review of published cases

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Initial surgical procedure	Hysterectomy	Local resection	Placenta left in situ	Sum
No. of cases	66 (56%)	17 (14%)	36 (30%)	119
Mode of cesarean section				
Elective	41 (62%)	16 (94%)	20 (56%)	77 (65%)
Emergency	8 (12%)	1 (6%)	15 (42%)	24 (20%)
Unspecific	17	0	1	18
Complications				
Bladder injury/resection	11	0	6	17
Salpingo-oophorectomy	1	0	1	2
Post-operative hemorrhage	5	2	16	23
Post-operative infection	1	0	9	10
Fistula	2	0	1	3
Pulmonary embolism/cardiopulmonary arrest	1	0	3	4
Femoral pseudoaneurysm or distal thrombus	4	2	0	6
Other re-operation	1	1	3	5
Sum	26	5	39	70
Secondary hysterectomy				
Emergency	–	0	18	18
Planned	–	0	3	3
Cases with one or more complications 0–24 h	19 (30%)	2 (12%)	9 (25%)	30
Cases with one or more complications >24 h	8 (12%)	2 (12%)	22 (61%)	32

Konservatif tedavi NEREDE?

- Tersiyer merkez
 - Kan bankası
 - Girişimsel radyoloji
 - Yoğun bakım
 - Multidisipliner ekip

Konservativ tedavi NASIL?

1. Cilt insizyonu

- Plasantadan uzak bir alana ulaşılabilmesi (vertikal)

2. Uterin insizyon

- Fundal
- Plasantadan uzakta

3. Plasental Manupilasyon

- akreata ise dokunma
- Şüpheli ise hafif traksiyon? Spontan ayrılma beklenebilir (korddan synpitan),
- Ayrılmış plasental yüzey eksize edilebilir

Konservativ tedavi NASIL?

3. Kanamayı Değerlendir

- Hemodinami
- Transfüzyon ihtiyacı

4. Ek Girişim

Hipogastrik arter ligasyonu

2 li (uterin- uteroovaryan) 3 lü (uterin- uteroovaryan-round) ligasyon

Balon

Lynch sütürü

5. Uterotonik

- Oksitosin, prostoglandin
- Metil ergonovine (?) çalışmalarda kullanılmamış

Konservatif tedavi NASIL?

6. Methotrexate

- Veriler olgu sunumları şeklinde/yetersiz
- Term plasentada hücre turnover ilk trimesterden çok daha yavaş
- Yan etkileri nedeniyle (sitopeni) akut kanama yönetimini olumsuz etkileyebilir
- Geniş retrospektif iki seride kullanım oranı % 12-20 (Bretelle,2005 Sentilhes, 2010)

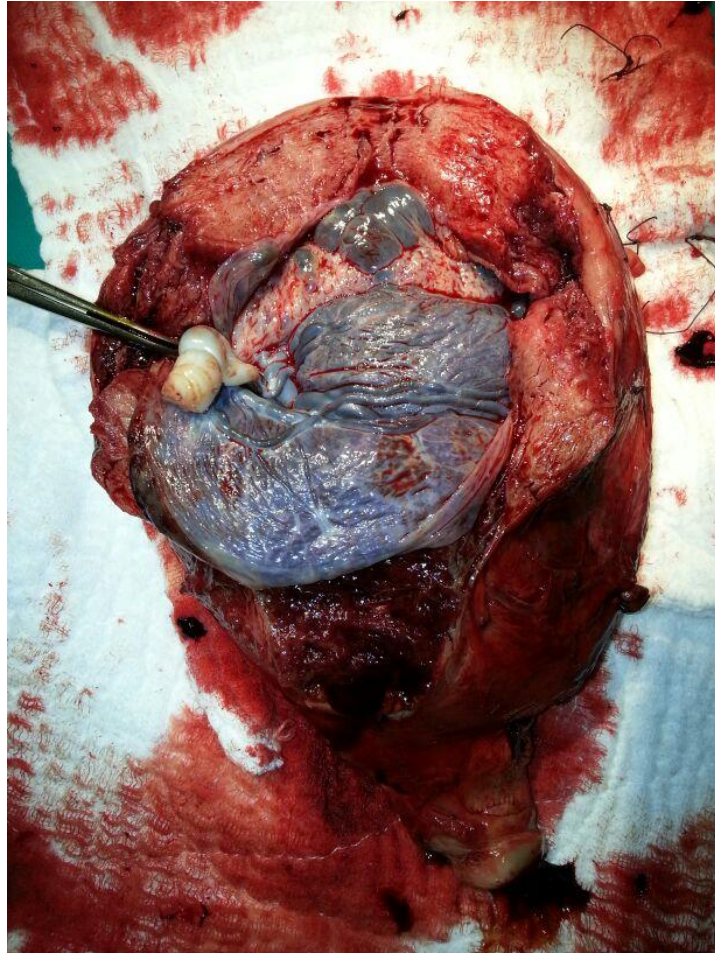
Rutin kullanılmamalı (RCOG)

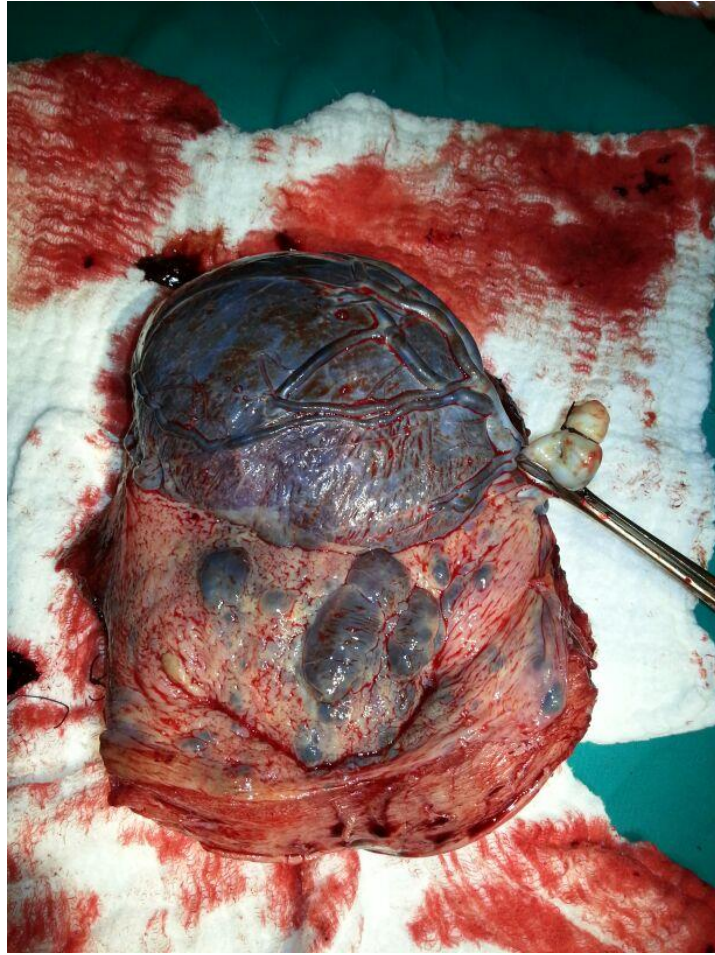
Konservatif tedavi NASIL?

- Embolizasyon -selektif pelvik arterial
 - Hemodinamik olarak stabil hastalarda
 - Tecrübeli ekip ve donanım gereksinimi
 - İşleme bağlı % 5 major komplikasyon oranı (Sentilhes, 2010)

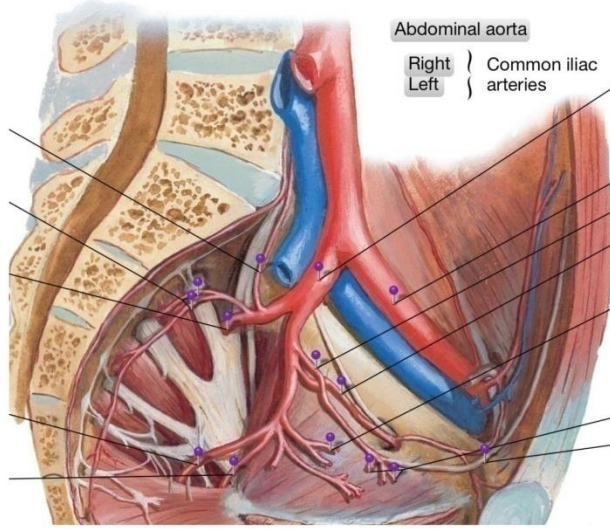
Sonuç

- Konservatif tedavinin planlı sezaryen histerektomiye kıyasla morbidite avantajı yok. Tüm çalışmalar retrospektif (muhtemel selection bias)
- Konservatif tedavi ile uzun dönem yakın takip gerekli
- Mesane invazyonu varsa cerrahi daha riskli olabilir
- Fertilité arzusu olmayan hastalarda sezaryen histerektomi standart tedavi olmalı



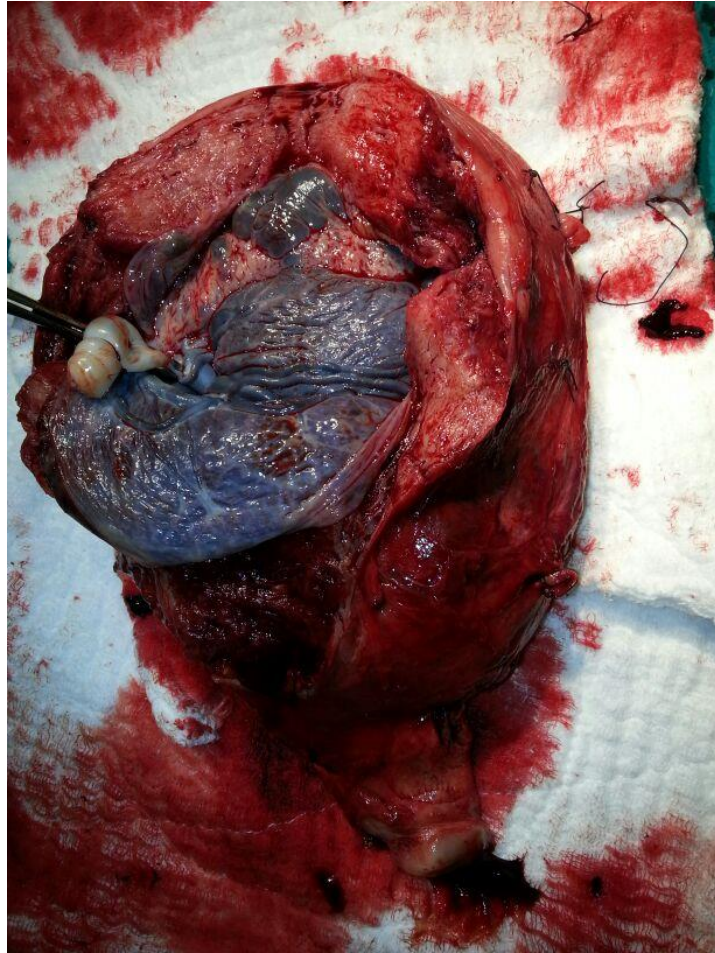


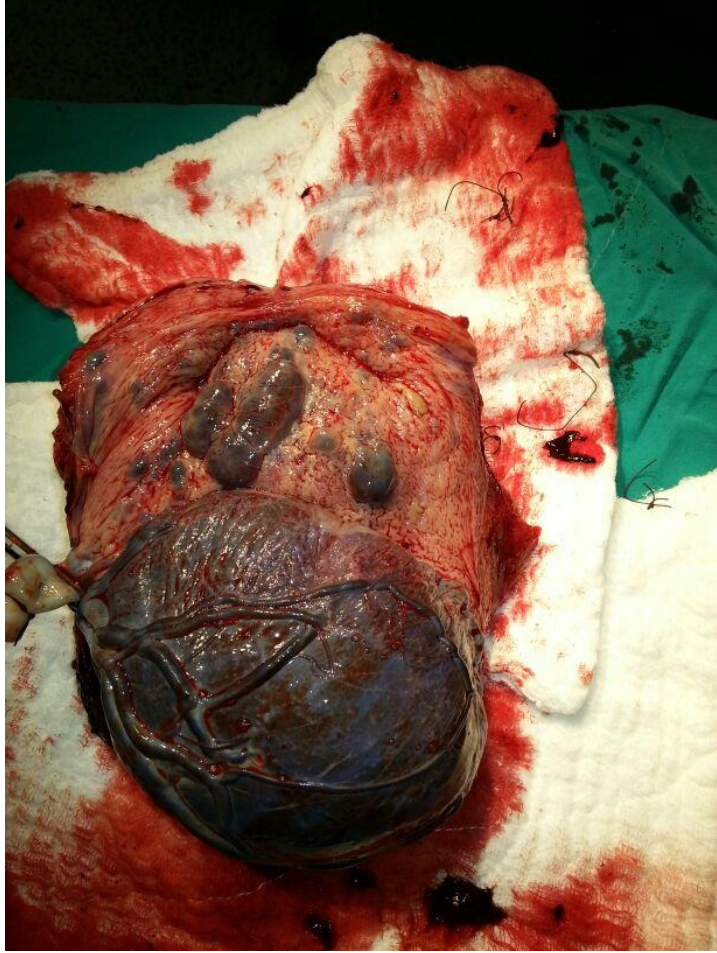
Hipogastrik arter ligasyonu



**Round lig. keserek başla,
önce üreteri,
sonra common iliak arteri bul,
posterior dalı mutlaka belirle**









Sonuç

- Konservatif tedavi ile planlı sezaryen histerektomi maternal morbidite yönünden benzer.
- Mesane invazyonu varsa cerrahi daha riskli olabilir
- Tüm çalışmalar retrospektif (muhtemel selection bias)
- Konservatif tedavi ile uzun dönem yakın takip gerekli
- Fertilitate arzusu olmayan hastalarda sezaryen histerektomi standart tedavi olmalı

Tanı

	Sensitivite	Spesifisite	PPV	NPV
Hipoekoik zon yokluğu	73-100	35-80	14-57	96-100
Düzensiz mesane sınırları	11-70	99-100	75-100	88-92
Plasental lakuna	73-100	28-86	21-94	88-100
Myometrial kalınlık < 1	22-100	72-100	72-100	89-100
Gri skala	77-87	96-98	65-93	98

Doğum zamanlaması

Table 4. Probabilities and Relative Risks for Maternal Outcomes

Outcome	Value
PPV of ultrasound for accreta ³	0.65 (0.49–0.78)
Antepartum hemorrhage requiring delivery 34–35 wk ^{13,14,16,33}	0.18* (0–.30)
Antepartum hemorrhage requiring delivery 35–36 wk ^{13,14,16,33}	RR= 1.0
Antepartum hemorrhage requiring delivery 36–37 wk ^{13,14,16,33}	RR= 1.4
Antepartum hemorrhage requiring delivery 37–38 wk ^{13,14,16,33}	RR= 1.96
Antepartum hemorrhage requiring delivery 38–39 wk ^{13,14,16,33}	RR= 1.96
Maternal ICU admission after scheduled peripartum hysterectomy ^{4,5}	0.07 (0.07–0.72)
Maternal ICU admission after emergent peripartum hysterectomy ^{4,5}	0.29 (0.07–0.72)
Maternal ICU admission after scheduled cesarean without intraoperative accreta ^{34,35}	0.017 (0.015–0.055)
Maternal ICU admission after emergent cesarean without intraoperative accreta ^{34,35}	0.055 (0.015–0.055)

	Sentilhes, 2010	Bretelle, 2005
Toplam hasta	167	26
Kanama <ul style="list-style-type: none"> • Primer • Sekonder 	36 (21.6 %) <ul style="list-style-type: none"> • 18 (10.8 %) • 18 (10.8 %) 	?
Histerektomi <ul style="list-style-type: none"> • Primer kanama • Sekoder kanama • Kanama dışı neden 	36 (21.6 %) <ul style="list-style-type: none"> • 18 (10.8 %) • 11 (6.6 %) • 7 (4.2 %) 	5 (19 %) <ul style="list-style-type: none"> • 3 (12 %) • 0 • 2 (8 %)
Ek morbidite	86 (52 %)	19 (75 %)
Ciddi morbidite	10 (6 %)	? (% 10 (3 olguda DIC))
Mortalite	1 (0.6 %)	0