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11.05.2012

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12.00

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- www.mu-pleven.bg .

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| II. | 6 |
| I . | 7 |
| V. | 9 |
| 1. | - |
| | 9 |
| 2. | - , |
| | 12 |
| 2.1. | - |
| | 12 |
| 2.2. | |
| | 17 |
| 2.3. | - |
| | 25 |
| 3. Arteria Uterina - | , |
| | 32 |
| 4. A | - |
| | 38 |
| | 49 |
| | 50 |
| | 52 |
| | 54 |

-
-
-
M - -
-
-
-

AEI – arteria epigastrica inferior
AIE – arteria iliaca externa
AII – arteria iliaca interna
AO – arteria obturatoria
AOA –
API - arteria pudenda interna
AU – arteria uterina
AUMB - arteria umbilicalis
CM - Corona mortis
NH - nervus hypogastricus
NO - nervus obturatorius
NSP - nervi splanchnici pelvici
PHI - plexus hypogastricus inferior
PHS - plexus hypogastricus superior
SUL -
VCIP - vena circumflexa ileum profunda
VEI – vena epigastrica inferior
VO – vena obturatoria
VOA –
VUL - e

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1. ,

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4. ,

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5. a. uterina

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6.

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I .

1.

1.1.

61

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01.10.2010-01.11.2010.

51%

1.2.

133

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2007-2011

.

2.

2.1.

42

() 81

(A)

-

2.2.

iPhotoMeasure™

2.3.

SPSS v.16.1.

Data Analysis

Microsoft Office Excel 2007.

t-

ANOVA

- χ^2 -

Pearson,

Mann-Whitney

Kruskal-Wallis.

χ^2 -

Pearson

p<0.05.

V.

1.

1.1.

. 1. () .1

| | | | | |
|--|------------|------------|-------------|-------------|
| 1.processus xyphoideus– | 15,00±1,63 | 15,19±2,46 | 15,75±2,31 | 19,96±3,80 |
| 2. – os pubis | 14,00±1,15 | 14,23±2,06 | 15,13±2,01 | 14,52±1,64 |
| 3. – spina iliaca anterior superior sinistra | 14,75±1,89 | 15,15±2,92 | 16,25±2,25 | 18,65±3,83 |
| 4. - spina iliaca anterior superior dextra | 15,75±1,50 | 15,12±2,51 | 16,63±2,26 | 18,30±3,59 |
| 5. – distantia spinarum | 7,75±3,77 | 7,69±2,18 | 7,75±2,18 | 7,74±1,85 |
| 6. | 75,75±8,50 | 80,00±8,47 | 91,50±12,70 | 93,82±18,69 |

- 44,3% (n=27). - 50,8% (n=31).
3 (4,9%),
(. 28).

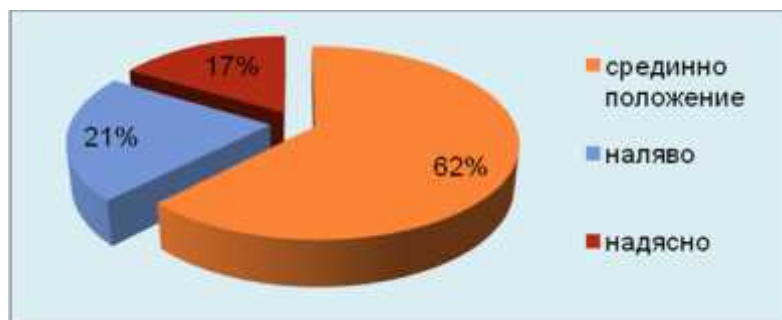
($\chi^2=10,551$; $p=0,003$).
70%

(64,5%),
processus xyphoideus.

, symphysis pubis,
 ($\chi^2=1,940$; $p=0,647$),
 „processus xyphoideus – ”,
 ($\chi^2=104,786$; $p=0,0001$).

($\chi^2=11,605$; $p=0,752$).

. 1.



. 1.

($\chi^2=2,049$; $=0,983$),
 ($\chi^2=2,049$; $=0,157$).

1.2.

(p<0,0001) „processus xyphoideus-symphysis pubis”
 (p<0,0001), .

7-8

(.2).

„processus xyphoideus – ”,

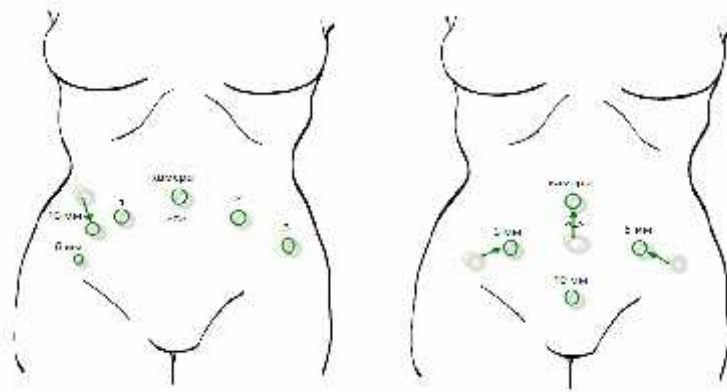
”

5

10

10

(.2).



.2.

(37,7%)

(– 5.44) (=0,003).

(1992), F. Nezhat

(1998)

S. Ambardar

processus xyphoideus

W. Hurd

(2008).

(p<0,001).

S. Chee

(1998),

„ – symphysis pubis”

(=0,647).

(5-6)

(. 2).

R. Rohrich . (2008),

(p=0,983).

2.

2.1.

2.1.1.

infundibulopelvicum, (. 3). VIE, lig. infundibulopelvicum (.4). lig.

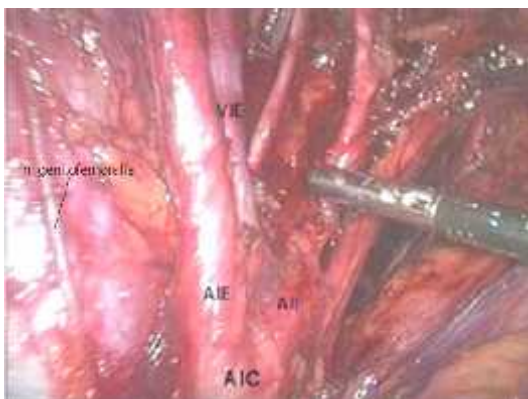


. 3. lig. infundibulopelvicum.

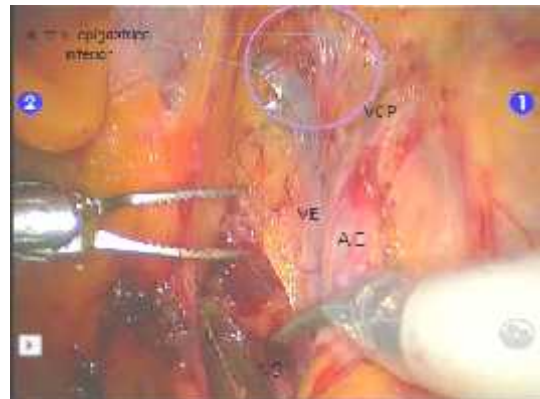


. 4. lig. infundibulopelvicum dextra.

genitofemoralis. AIC (.5), a – VCIP (.6). n.



. 5.

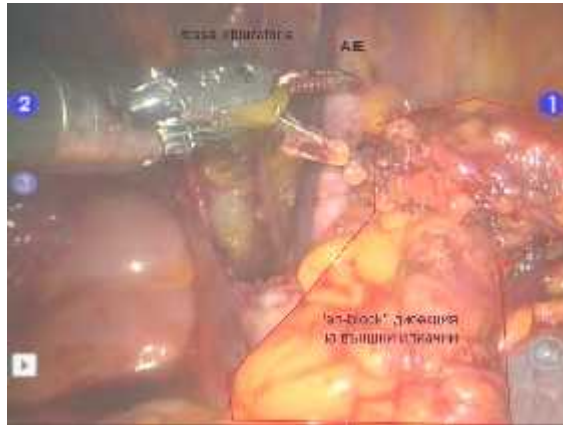


. 6.

– VCIP, a. et v. epigastrica inferior.

En-block

. (. 7)



. 7. ,, n-block”

- AIE –

AIE.

11.44±1,958

11.36±2,064

133

, 2

AIE.

AIE (. 8).

AIE



. 8.

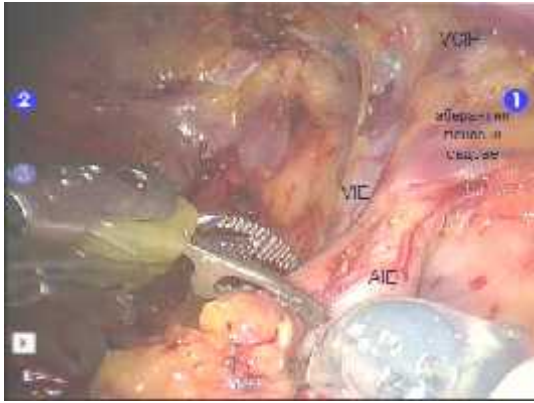
AIE

ù

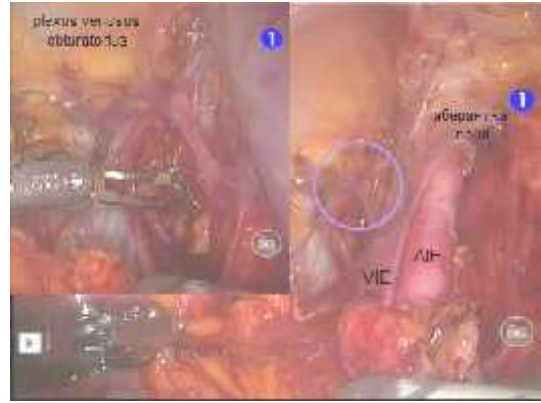
ù 1/3,

AIE,

VIE (. 9). , AI ,
 (. 10).



. 9.



. 10.

, AIE
 , VIE.

VIE.

2.1.2.



1 2-1

1

N. Kadar (1997)

(pelvic sidewall triangle).

- lig. rotundum, - AIE,
- lig. infundibulopelvicum,
- AIE lig. infundibulopelvicum (. 11).



. 11. Pelvic sidewall triangle

e
lig. infundibulopelvicum.

n. genitofemoralis

- AIE
AIE (11,29)
- 9,6 - 13 mm. M.
lepacki . (2007),
AIE (f=0,932, p=0,447).

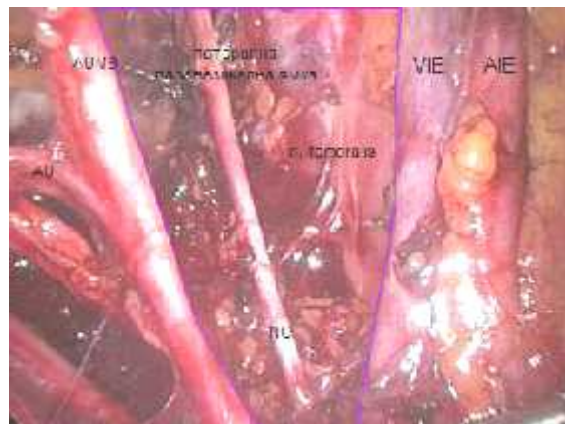
2.2.

2.2.1

„pelvic sidewall triangle”.

AII,

AU.



. 12. Fossa obturatoria,

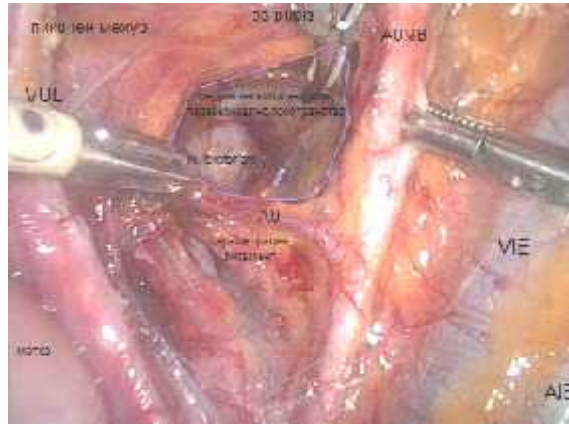
VIE,

AUMB

AUMB.

fascia endopelvica

m. levator ani (. 13).

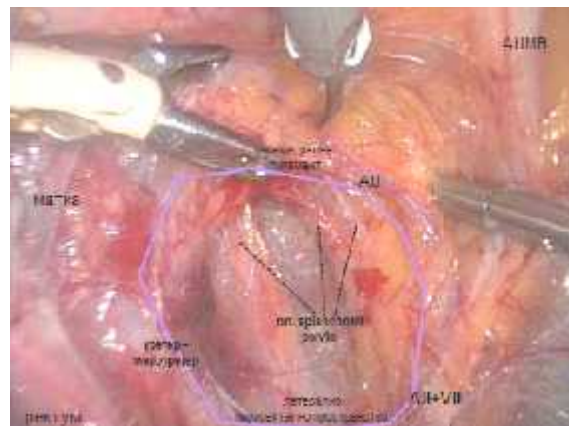


. 13. M pubis, AUMB, : (, VUL) os

(Latzko)

AUMB, AII

. ; - ; - (. 14).



. 14. nervi splanchnici pelvici (NSP), PHI.

(Okabayashi)

H. Okabayashi (1921),

(SUL).

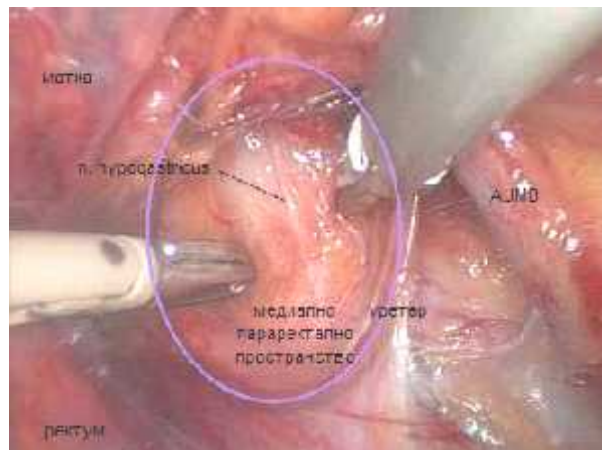
SUL

plica lata,

AU.

n. hypogastricus (. 15).

Okabayashi



. 15.

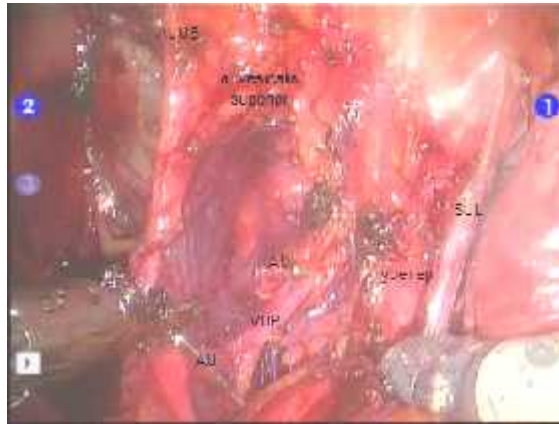
SUL

АII.

(.16).

U

(VUP)



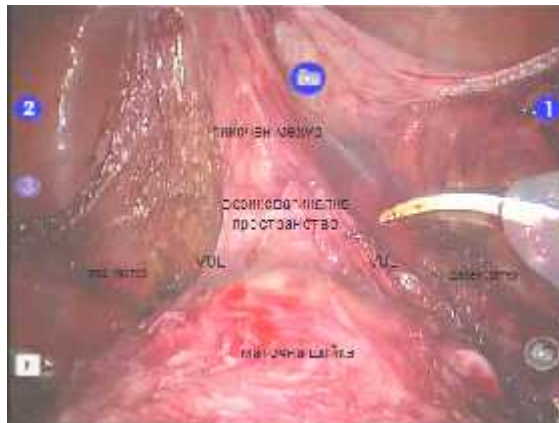
. 16. U

VUP,

, . . .

plica vesicouterina.

VUL (. 17).



. 17.

VUL e

, . . .

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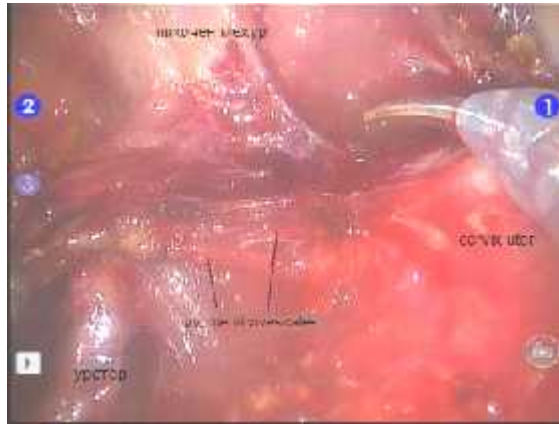
AU

„ . in T”.

VUL

-

(. 18).



. 18.

,

VUL

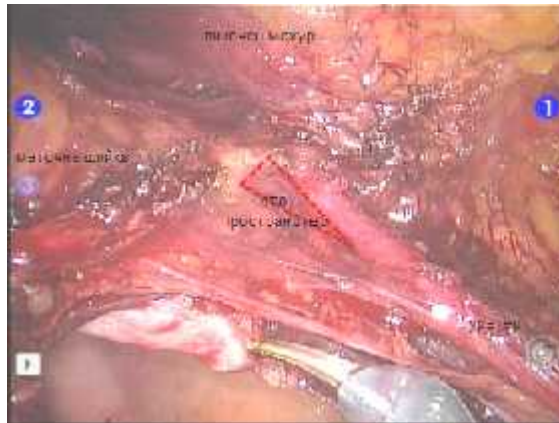
” ”

VUL

VUL.

VUL

, Y. Yabuki . (1996) ,,
 ” (. 19).

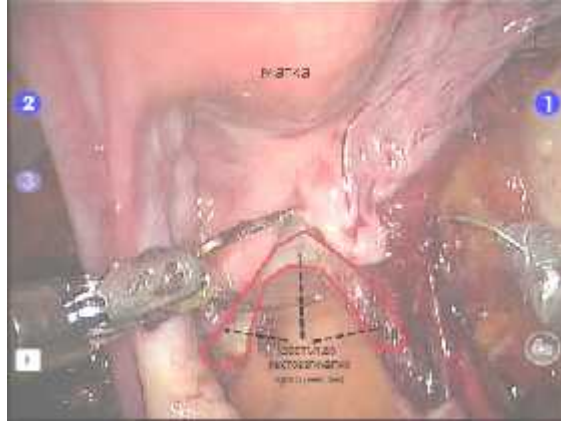


. 19.

VUL.

VUL

(. 20).



.20.

SUL - ,

2.2.2.

J. Magrina . (2007)

AUMB

VIE. - ,

D. Dargent . (1999).

,
 ,
 . B. Li . (2011) -
 , -
 ,
 .
 , ” .
 ,
 .
 .
 , SUL .
 ,
 , SUL .
 ,
 , VUP .
 VUP (NSP) .
 PHI.
 , F. Raspagliesi . (2004)
 NSP
 - , .
 , . CUSA (cavitron
 ultrasonic surgical aspirators),
 .
 S. Fuji . (2007) G. Mantzaris . (2006)
 (2.5)
 .
 ,
 - S.

Fuji G. Mantz ris.

VUL,
" -
" -
M
VUL ,
" " .
VUL S. Fujii .
(2007). ,

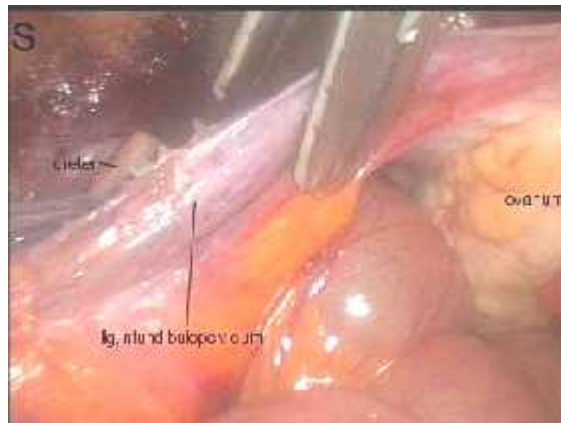
n. vesicalis,
PHI
AU VUP. VUP

SUL - ,
SUL plexus hypogastricus
superior. ,
- .

2.3.

2.3.1.

-
- , lig. infundibulopelvicum ,
(. 21).

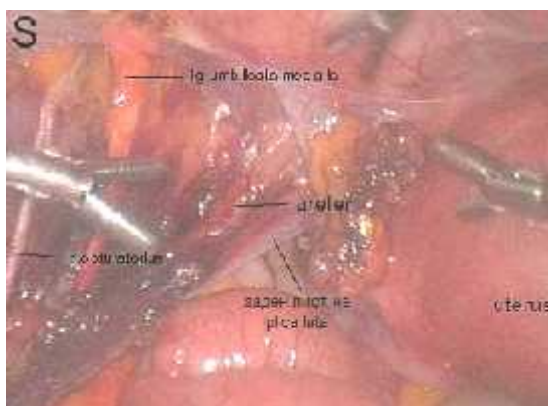


- 21. lig. infundibulopelvicum
LigaSure.

(min-16,5; max-44,0; SEM 0,55), 30,21±7,09 (min-12,2; max-30,02±6,4)
(r=0,209;p=0,05).
(f=0,132; p=0,153).

• plica lata

. (. 22)



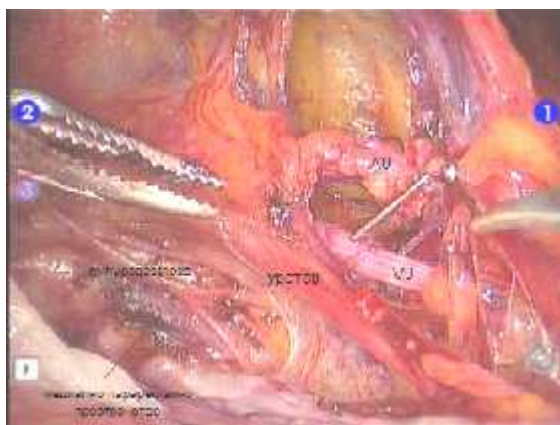
. 22. plica lata e .

• plica lata, e . . .

• AU VU

AU

. (. 23)

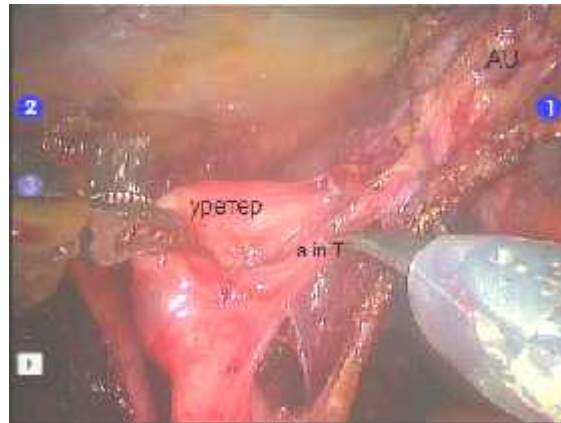


. 23.

, AU - .

AU
AU – „a. in T”.

(. 24).



. 24.

AU – “a in T”.

•

VUL,

(. 25).

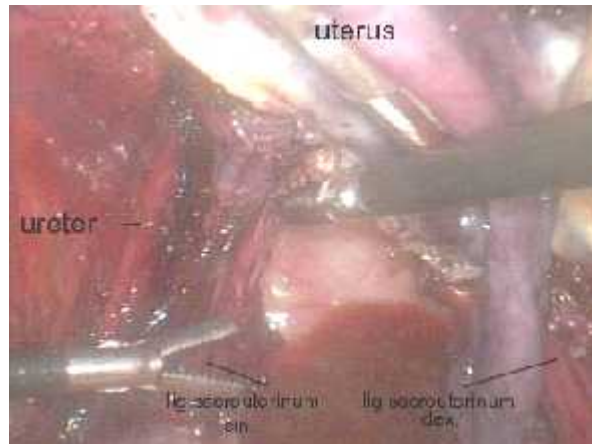
VUL



. 25.

VUL

SUL



. 26.

- Colpotomia anterior

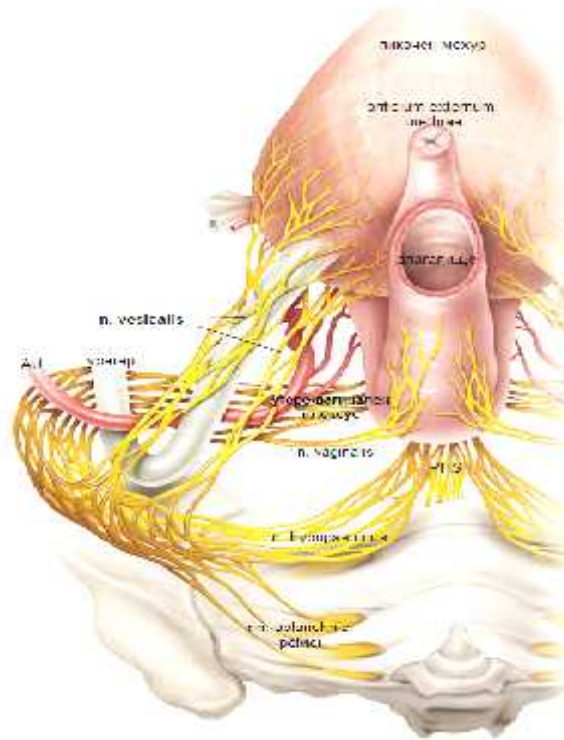
(. 27).



. 27.

PHI

,
. (. 28)



. 28.

PHI

-

plica lata

PHI.

n. hypogastricus,

nn. splanchnici pelvici

PHI.

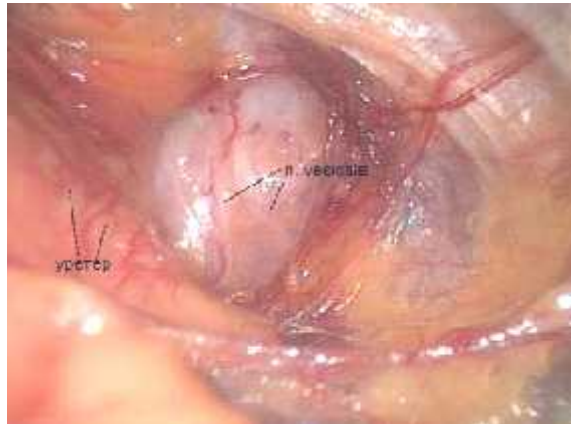
-

AU

. N. uterovaginalis

- N. vesicalis

. (. 29)



. 29. N. vesicalis -

- n. vesicalis

2.3.2.

lig. infundibulopelvicum

103 Ch. Nezhat . (1999).

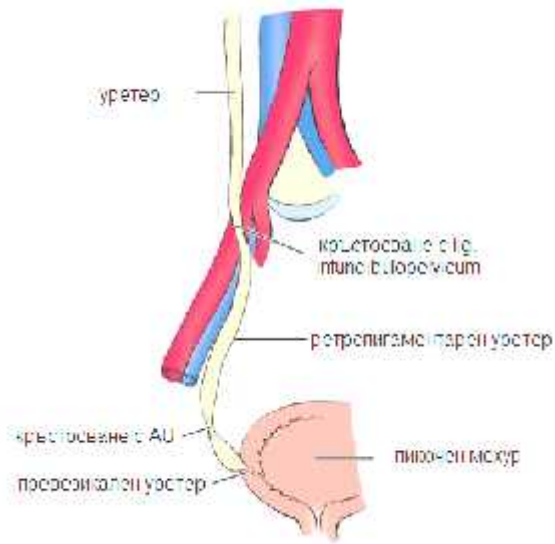
p<0,0001).

(r=0,703;

(2.96),

infundibulopelvicum- ” . Ch. Nezhat . (1999) „lig.

(. 30).



. 30.

3

AU.

PHI.

PHI,

3. Arteria Uterina - ,

3.1.

 AU

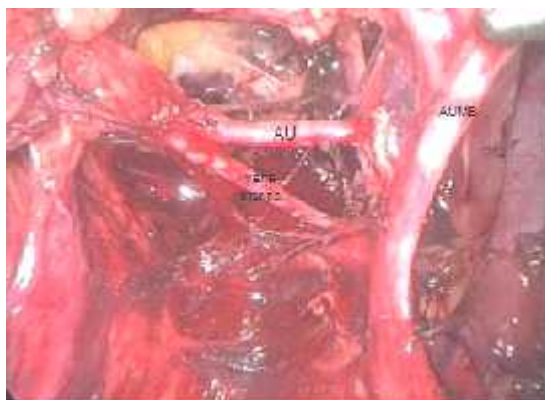
AU (.2):

. 2. AU ù.

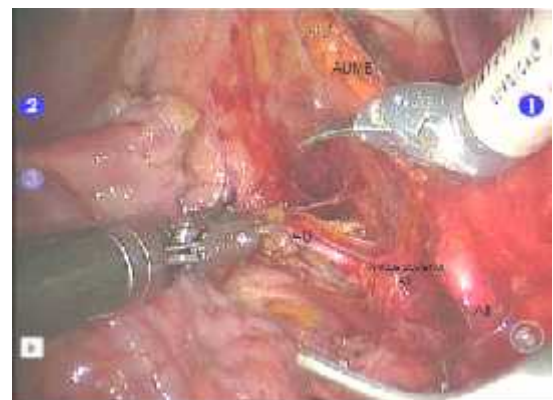
| | | | |
|---|-----------|--------|------|
| 1 | AU e | AUMB* | |
| 2 | AU e | API**/ | AII |
| 3 | AU API | | AUMB |
| 4 | AU | AII | ù |

* AUMB – a. umbilicalis; API-a. **pudenda interna

().

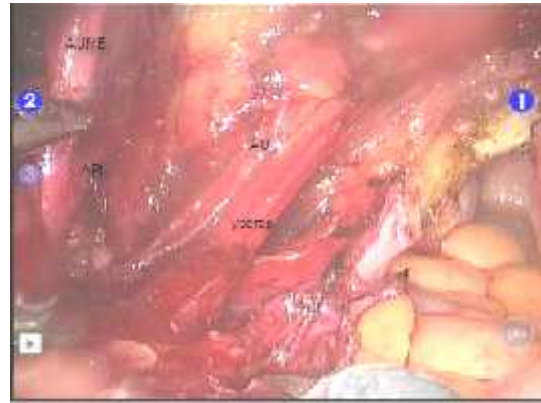
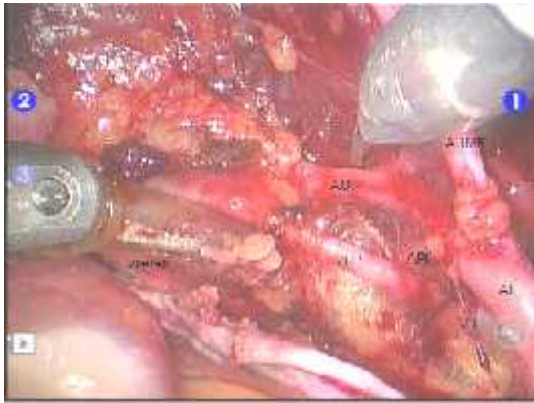


. 31. AU 1.



. 32. AU 2

II.



. 33. AU 3 - AU, AUMB API

. 34. AU 4 AII, AIC.

AII. AU

AU

133

10

AU

AU / AII.

124

(.3):

. 3.

(n=248)

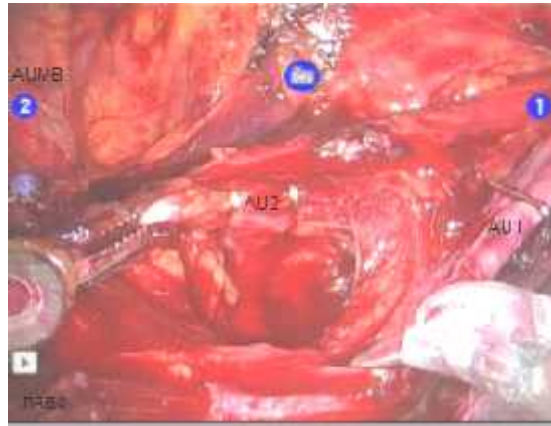
| 1 | 2 | 3 | 4 |
|---------------|-------------|--------------|------------|
| 70,2% (n=174) | 6,5% (n=16) | 21,8% (n=54) | 1,6% (n=4) |

AU

81,2% /n=108/.

AU

(. 35).

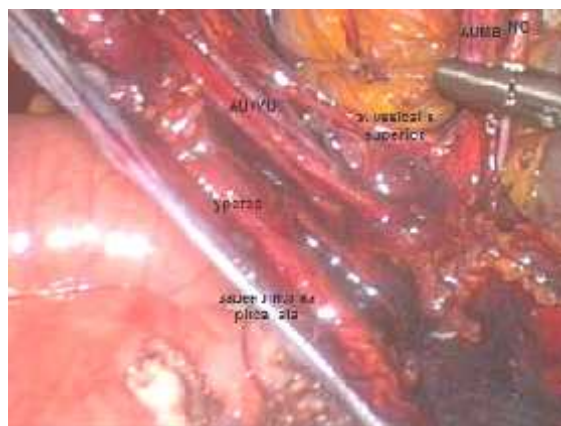


. 35. AU1 (4) e
 . AU2(2) e ,

U

– 1. AU
 (); 2. orificium internum canalis cervicalis ().

AU (.96; .97; .98).



. 36. AU – AU e U a.
 vesicalis superior. AU plica
 lata., – VUP.

AU

AU,

ù (. 4).

. 4.

AU

| | () | () |
|--------|-----------------|-------------|
| AU sin | 3,95±1,06 (2-6) | 49,68±11,92 |
| AU dex | 3,81±1,10 (2-7) | 49,31±12,62 |
| | 3,88±1,08 (2-7) | 49,49±12,25 |

(f=1,104; p=0,294)

(f=0,057; p=0,812)

AU

AU (f=8,245; p=0,0001).

AU (f=1,281; p=0,282) (. 5).

. 5.

AU (n=248)

| | () | () |
|------|-----------|--------------|
| AU | 3,72±1,00 | 48,61±10,40 |
| AU | 3,44±1,26 | 50,69±21,16 |
| AU | 4,48±1,06 | 13,044±52,17 |
| AU V | 4,25±1,5 | 46,75±26,29 |

(p>0,05).

3.2.

| AU | ù. | AU, |
|--------------------------|--------------------------------|-----------|
| | | |
| | U - B. Adachi (1928), Z. Holub | |
| . (2005), J. Gomez-Jorge | . (2003). | |
| | | AU |
| | | |
| | | |
| | AU | AUMB (). |
| Z. Holub . (2005) | AU - | AUMB |
| (76,4%). | 23.4% | API |
| AII, | - | 2 |
| (6,4%). | | |
| AU | . Z. Holub . (2005) | |
| | | |
| J. Gomez-Jorge | . (2003) 51% | AU |
| a. glutea inferior, | | |
| | AII. 43% | |
| , U | | AII |
| | - | |
| | | |



. 37. umbilicalis, a. uterina () AII - aa. glutea inferior et superior, a.

(4). J. Gomez-Jorge . (2003) - AII AU 2 AU AII - 6%.

, - AU. AU J-P Pelage . (1999)

90%.

, , . F. G. Parsons A. Keith (1897)

AU, AU in vivo. AU, AU.

AU (2-7).

ù (Valleylab LigaSureTM, Gyrus, BOWA, RBE, Martin Maxium).

AU

AU

AII

(3 4),

AUMB

AII (1 2).

4. A

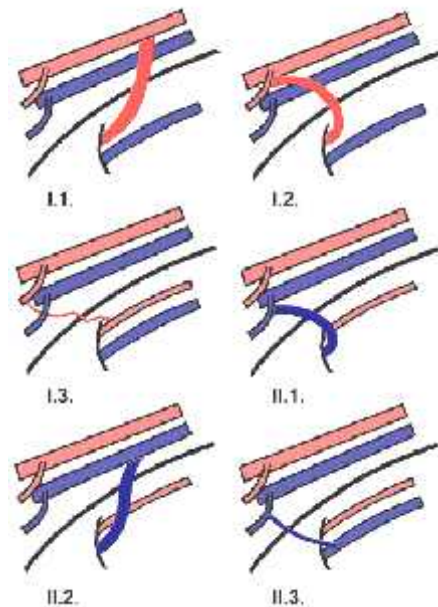
4.1.

AOA/VOA

M. Rusu

(2010)(.22).

- I: (.1. ; .2. ; .3. ; 4.)
- : (.1. V V ; .2.V VEI; .3. V V).
- :



.38.

58 (43,6%).

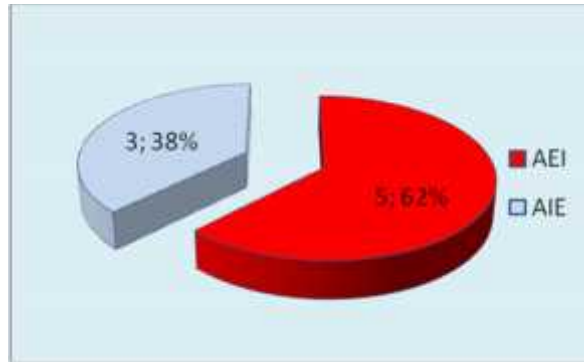
6% (n=8)

VOA.

. 100

a. epigastrica inferior (AEI)

AIE.



.39.

ù AIE, . AEI

. 41).



. 40.

I



. 41.

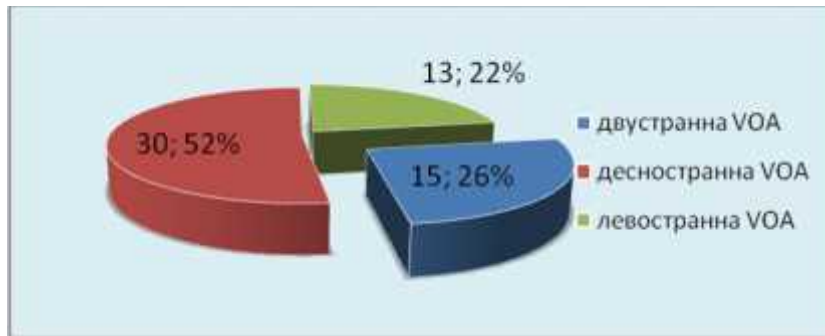
AIE

VOA
(n=58).

, e

. 42.

- VOA, - 43,6%



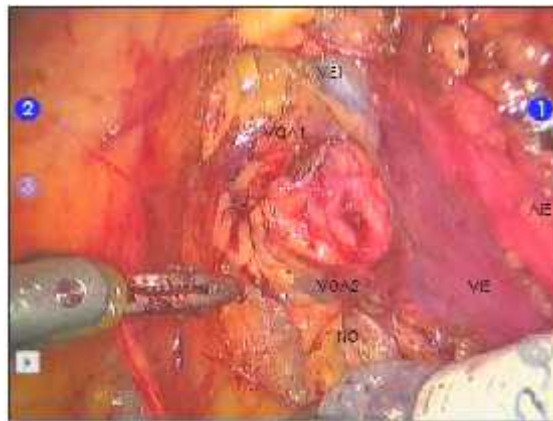
. 42.

VOA

73 VOA

(n=133).

VOA(. 43).



. 43.
(VOA2)

VOA –

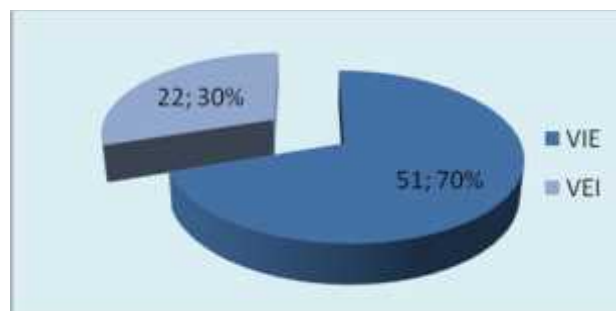
: VEI (VOA1)

VIE

73 VOA -

VIE

(. 44).



. 44.

VOA

VIE,

. VEI

VOA

(n=266) e 27.44% (n=73).

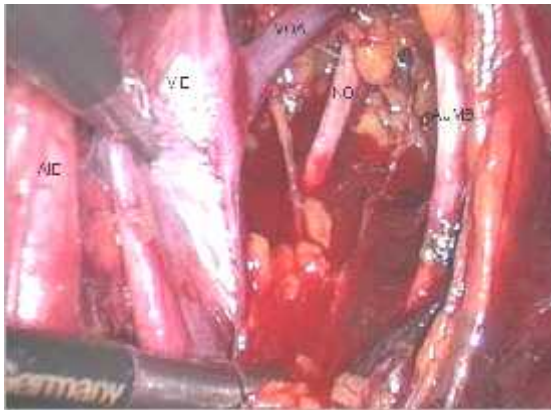
(n=133)

6.

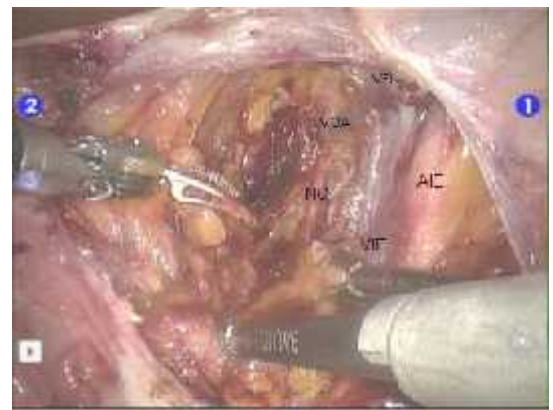
. 6.

| | N | % (n=58) | % (n=133) |
|-------------|-----------|--------------|--------------|
| | 1 | 1,72 | 0,07 |
| | 0 | - | - |
| I | 1 | 1,72 | 0,07 |
| | | | |
| | 50 | 86,20 | 37,50 |
| V V | 31 | 53,44 | 23,30 |
| V VEI | 11 | 18,96 | 8,27 |
| V VIE | 2 | 3,44 | 1,50 |
| V V V | 0 | - | - |
| V V + V VEI | 1 | 1,72 | 0,07 |
| V V + V VIE | 3 | 5,17 | 2,25 |
| V V + V V | 1 | 1,72 | 0,07 |
| V V V VEI+ | 1 | 1,72 | 0,07 |
| | | | |
| | 7 | 12,06 | 5,26 |
| + V V | 3 | 5,17 | 2,25 |
| + V VEI | 0 | - | - |
| I+ V V | 2 | 3,44 | 1,50 |
| I+ V VEI | 2 | 3,44 | 1,50 |
| | 58 | 100 | 43,60 |

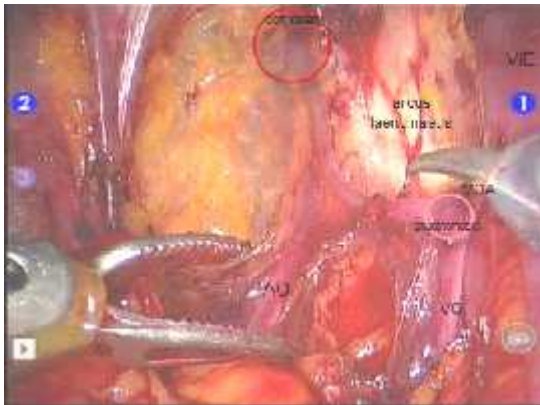
- / /.
- (.40; .41)
- (.45; .46; .47; .48)



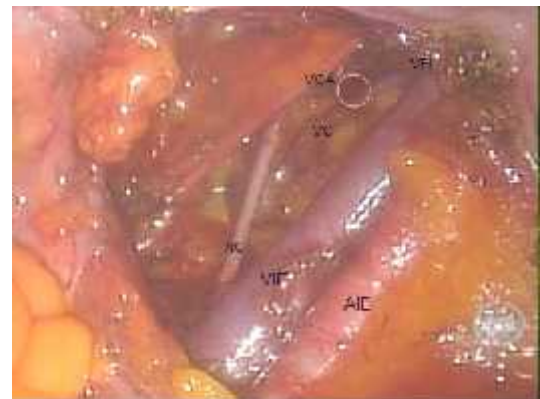
.45. V A V



.46. V A VEI

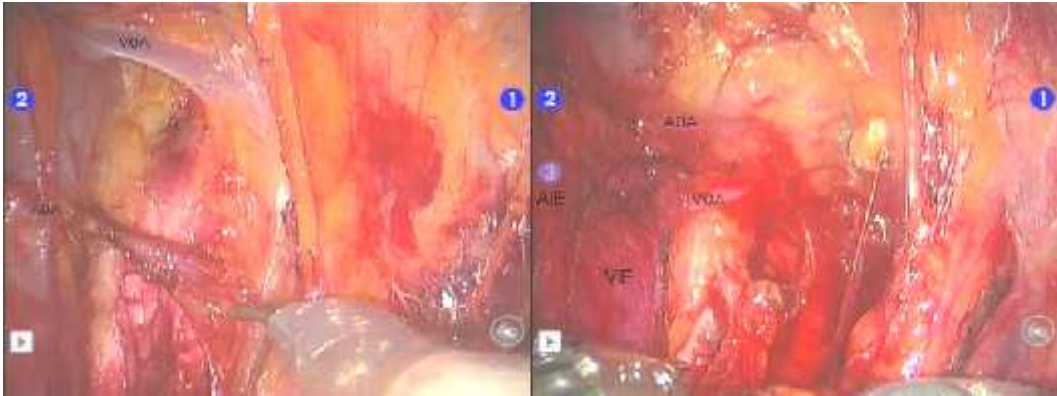


. 47.
V VOA,
VII VIE



. 48.
V V

(.49; .50; .51)



. 49. V A V . , A ,



. 50. A V . I, V A V .

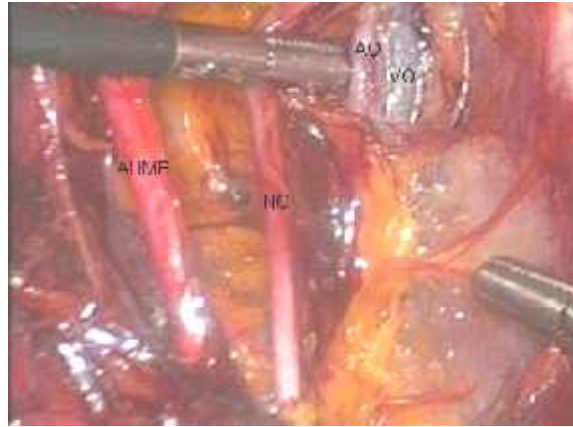


. 51. A VOA AEI, . VEI.

| | | | | |
|-------|-----|-----------|---------------------|-----------|
| | | (n=8) | 2,50±0,54 | . |
| AOA, | AEI | 2,60±0,56 | , | |
| AIE - | | 2,33±0,57 | . | |
| | AIE | AEI | (f=0,411; p=0,543). | |
| | | I | 97,38°±14,39. | |
| | AOA | AEI | . | |
| VOA | VOA | | 3,93±1,82 | . |
| | VIE | | 3,95 | (M=4,00), |
| | VIE | | 3,90 | (=3,50). |
| | VIE | VEI | (f=0,011; p=0,935). | |
| | VOA | VIE | 96,09°±23,25 | (. 118). |
| | VEI | | . | |

- (n=127) NO
(.52).

VO,



. 52. Fossa obturatoria dextra

NO

VO.

6 (4,51%)

NO,

VO
NO

NO.

4

NO

(.53; .54; .55).



. 53.

VO

NO



. 54. AO,

VO - NO

AI,

NO,



. 55.

NO

4.2.

VO

NO, AO

V. Niculescu . (2003).

in vivo.

. L. Karakurt . (2002)

Berberoglu . (2001)

133

(2001) - L. Karakurt . (2002) . Berberoglu .

ù

/VOA

VOA

43,6%

8 (6%),
266

3%.

5,5% 65%. . Berberoglu . (2001)

8%,

- (10%) L. Sarikcioglu . (2003)

(20 -

30%) , M. Rusu . (2010)

e

- - 65%.

8 , 5 (62,5%)

I, 3 (37.5%) -

IE.

AEI

M.

Jakubowicz . (1996) A. Missankov . (1996) -
AIE. L. Sarikcioglu . (2003)
A I., . Berberoglu .
(2001) EI AIE .
RA. Bergman . (1984) ,
, AIE
. ,
IE
. ,
- ,
. VO -
. Berberoglu . (2001)
VOA 96%.
, VOA – 73, 233
– 27,44%.
Missankov . (1996) - 26%, L. Sarikcioglu . (2003) - 20,37%
H. Lau . (2003) - 27%.
58 VOA, 15 (25,8%)
. G. Okcu . (2004)
25% .
- e VOA
(43/74,13%), - VOA
(n=30), 13 – . M. Namking .
(2007)
- VOA VIE (n=51/69,86%). M. Rusu .
(2003) , -
VO VEI VIE.
VOA .
(n=133) -
- 37,50%, -
1 (0.07%). M. Rusu . (2003)
. - (

+) (40%), -
(15%).

VOA AOA

e

-

-

-

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1.

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2.

„processus xyphoideus – ”

,

.

,

,

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3.

,

.

4.

,

.

5.

(7-10)

.

.

6.

:

1.

lig. infundibulopelvicum; 2.

; 3.

arteria uterina; 4.

.

7. A. uterina - a. umbilicalis (70,2%),

a. uterina.

a. uterina

8. a. uterina (2-7)

ù. A. uterina

AII

(3 4) -

a. umbilicalis

AII (1 2).

9.

(6%)

-

a. epigastrica inferior (62%).

10.

e

(43,6%)

(74%),

70%

VIE.

-

1. ,
2. e a. iliaca externa (11,29) 133
, in vivo.
3. lig. infundibulopelvicum
4. , .
5. AU in vivo, ,
, ù.
6. 133 , ,
.

1.

,

2.

()

ù.

3.

4.

5.

6.

. uterina

7.

a. uterina

Ligasure

ù.

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_____. 16 _____ . 2
_____, _____, 1-4 _____,
2011 .