TRATAMENTO ENDOSCÓPICO DOS MIOMAS

Prof Dr André Luis F Santos UNITAU / 2009

TEMAS POLÊMICOS

MIOMA: ACHADOS DIAGNÓSTICOS FREQUENTES E TRATAMENTOS DESNECESSÁRIOS

INTRODUÇÃO

- Tu pélvico mais frequente do T.G. feminino
- 30/40% das mulheres em idade fértil
- Sintomáticos em até 50%
- EUA- 12,8 em 1000 mulheres/ano
- Um terço das indicações de histerectomia

EPIDEMIOLOGIA ETIOPATOGENIA

- Neoplasia benigna de células musculares lisas
- Responsiva a hormônios ovarianos
- Raça negra
- História familiar

- Idade: negras- 35 a 39 anos, brancas- 40 a 44 anos
- Paridade- risco diminui de 20-50 % se possui 1 filho.
- Infertilidade <3% associação direta é rara,
 mais relacionada ao tu submucoso

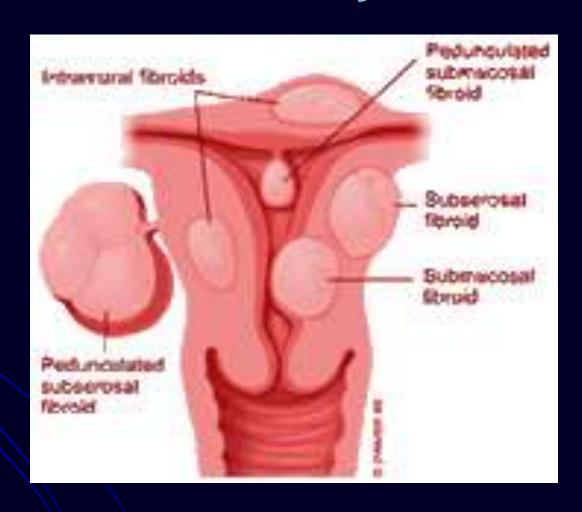
- Índice de massa corpórea- se alto, aumenta o risco em 2 a 3 vezes
- Dieta- carne vermelha aumenta em 2 vezes, vegetais diminui em 50%
- Atletismo- diminui o risco

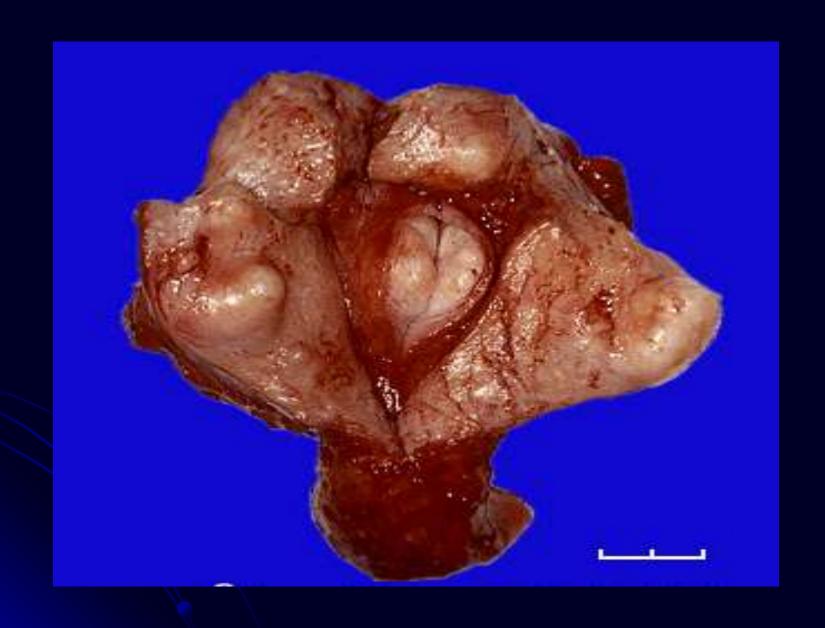
 Tabagismo- diminui o risco em 20 a 50%, inativação hepática dos estrogênios

 Doenças crônicas- DM e HAS aumenta o risco

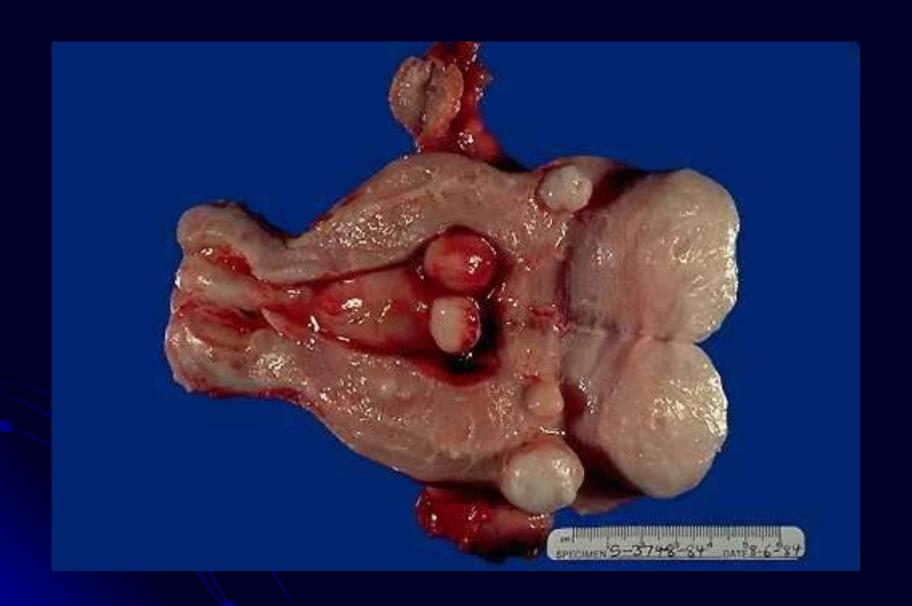
CLASSIFICAÇÃO

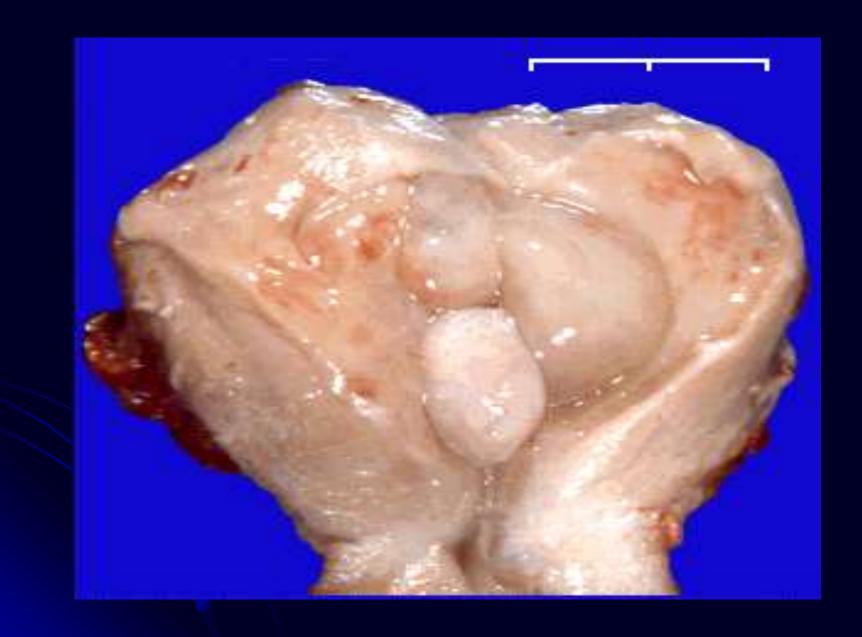
Localização

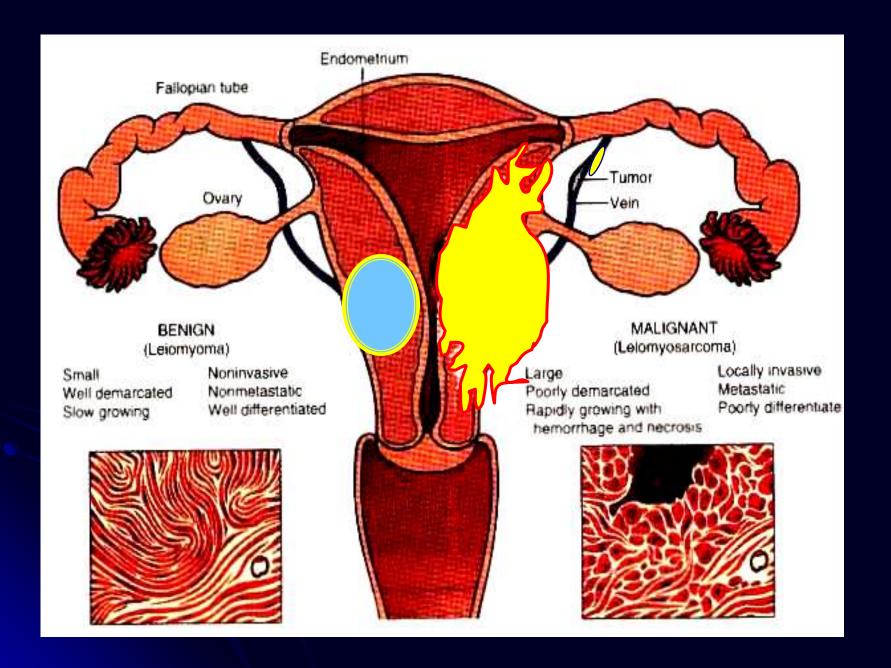




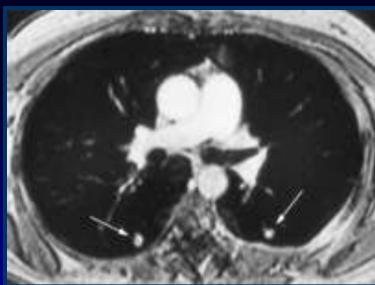














QUADRO CLÍNICO

- Assintomáticos e sintomáticos
- Manifestações locais
- aumento do fluxo menstrual
- algia pélvica
- Infertilidade
- aumento do volume abdominal
- Corrimento
- compressão do trato intestinal, urinário e venoso

- Dor pélvica- 30 a 50% dos casos, dor tipo cólica ou em peso
- Volume compressão
- > Parturição- cólica e sangramento
- Degeneração vermelha ou torção- dor abdominal aguda

Manifestações gerais

- anemia ferropriva
- > Astenia
- dispnéia
- > febre- necrose do mioma

DIAGNÓSTICO

- Clínico
- Laboratorial: impacto do sangramento
- Radiológico
- Endoscópico

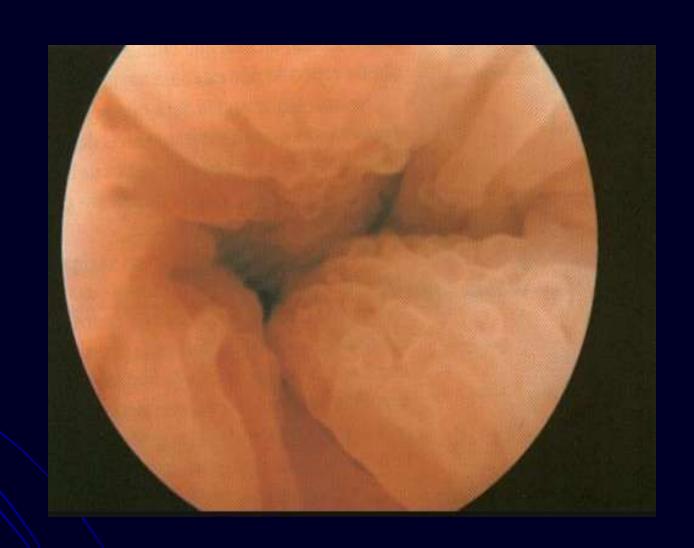
Radiológico

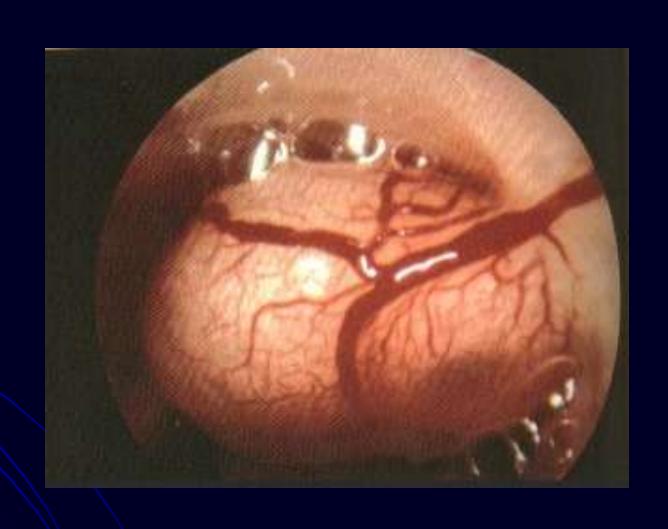
- US pélvica (doppler)
- Histerossalpingografia
- Histerossonografia
- Tomografia
- RNMP

RNMP



HISTEROSCOPIA





VIDEOLAPAROSCOPIA



TRATAMENTO

DÚVIDAS MAIS FREQUENTES EM MIOMAS

- Quando indicar o tratamento cirúrgico?
- Qual melhor estratégia?
- Quando indicar tratamentos alternativos?
- Quando indicar tratamento clínico? Único, neo ou adjuvante?
- Qual o melhor esquema?
- Quando indicar a embolização?
- Quando indicar tratamento ultrassônico?
- E nas recidivas?

MIOMA

- Sintomatologia
- Infertilidade
- Localização
 - > Subseroso?
 - Intramural?
 - Submucoso? G 0 ou 1 ou 2
 - Concomitantes?
- Número
- Idade
- Recidiva

Quando indicado o tratamento, qual a melhor técnica?

A cirúrgica

Expectante

Medicamentoso

Cirúrgico

Embolização / Exablate

TÉCNICAS ALTERNATIVAS

- Embolização
- Ultrassom focalizado de alta intensidade guiado por ressonância magnética (ExAblate):

Miomas até 10cm

Até 6 miomas

Benigno

Localização acessível

N pedunculares

Visíveis a RM não contrastada

Ausência de calcificação

SUBMUCOSO

- Fundamental avaliar componente intramural
- RM melhor método
- Volume, número e invasão: >1 e >50% intramural 2 tempos
- Pelo menos 5mm até serosa livre: associar a laparoscopia com a histeroscopia
- Muito útil o uso de análogo prévio

Fibroids and infertility: an updated systematic review of the evidence

Elizabeth A. Pritts, M.D., William H. Parker, M.D., and David. L. Olive, M.D.

Effect of fibroids on fertility: all locations.

Outcome	Number of studies/substudies	Relative risk	95% confidence interval	Significance
Clinical pregnancy rate	18	0.849	0.734-0.983	P=.029
Implantation rate	14	0.821	0.722-0.932	<i>P</i> =.002
Ongoing pregnancy/live birth rate	17	0.697	0.589-0.826	<i>P</i> <.001
Spontaneous abortion rate	18	1.678	1.373-2.051	<i>P</i> <.001
Preterm delivery rate	3	1.357	0.607-3.036	Not significant

Pritts. Fibroids and infertility. Fertil Steril 2008.

^a Wisconsin Fertility Institute, Middleton, Wisconsin; and ^b Department of Obstetrics and Gynecology, University of California, Los Angeles, California

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Effect of fibroids on fertility: submucous fibroids.

Outcome	Number of studies/ substudies	Relative risk	95% confidence interval	Significance
Clinical pregnancy rate Implantation rate	4 2	0.363 0.283	0.179-0.737 0.123-0.649	P=.005 P=.003
Ongoing pregnancy/live birth rate	2	0.318	0.119-0.850	P<.001
Spontaneous abortion rate	2	1.678	1.373-2.051	P=.022
Preterm delivery rate	0	_	_	_

Pritts. Fibroids and infertility. Fertil Steril 2008.

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Effect of fibroids on fertility: intramural fibroids.

Outcome	Number of studies/ substudies	Relative risk	95% confidence interval	Significance
A. All studies				
Clinical pregnancy rate	12	0.810	0.696-0.941	P=.006
Implantation rate	7	0.684	0.587-0.796	P<.001
Ongoing pregnancy/live birth rate	8	0.703	0.583-0.848	<i>P</i> <.001
Spontaneous abortion rate	8	1.747	1.226-2.489	P=.002
Preterm delivery rate	1	6.000	0.309-116.606	Not significant
B. Prospective studies				
Clinical pregnancy rate	3	0.708	0.437-1.146	Not significant
Implantation rate	2	0.552	0.391-0.781	P=.001
Ongoing pregnancy/live birth rate	2	0.465	0.291-0.744	<i>P</i> =.019
Spontaneous abortion rate	2	2.384	1.110-5.122	P=.002
Preterm delivery rate	0	_	_	_

^a Wisconsin Fertility Institute, Middleton, Wisconsin; and ^b Department of Obstetrics and Gynecology, University of California, Los Angeles, California

Fibroids and infertility: an updated systematic review of the evidence

Elizabeth A. Pritts, M.D., William H. Parker, M.D., and David. L. Olive, M.D.

Effect of myomectomy on fertility: intramural fibroids (fibroids in situ controls).

Outcome	Number of studies/ substudies	Relative risk	95% confidence interval	Significance
Clinical pregnancy rate	2	3.765	0.470-30.136	Not significant
Implantation rate	0	_	_	_
Ongoing pregnancy/live birth rate	1	1.671	0.750-3.723	Not significant
Spontaneous abortion rate	1	0.758	0.296-1.943	Not significant
Preterm delivery rate	0	_	_	_

Pritts. Fibroids and infertility. Fertil Steril 2008.

^a Wisconsin Fertility Institute, Middleton, Wisconsin; and ^b Department of Obstetrics and Gynecology, University of California, Los Angeles, California

Tratamento cirúrgico (Laparoscopia x Laparotomia)

Laparoscopic versus abdominal myomectomy: A prospective, randomized trial to evaluate benefits in early outcome

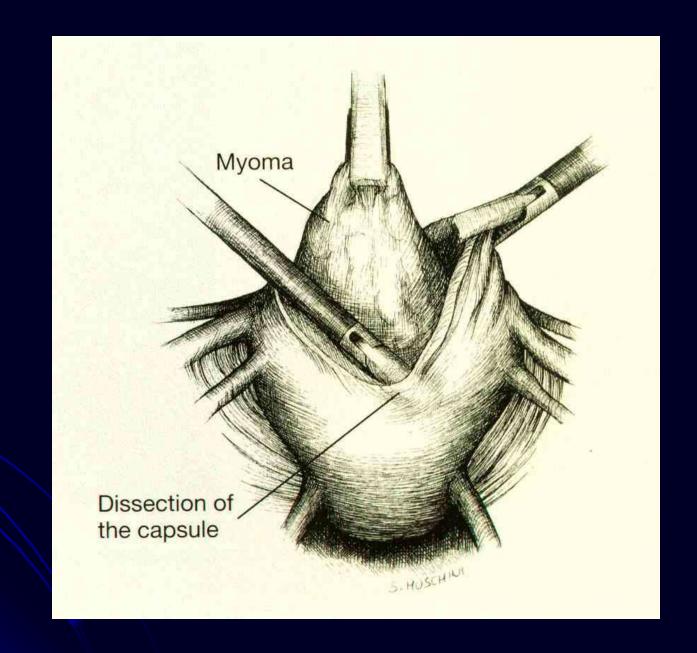
Valerio Mais, MD, Silvia Ajossa, MD, Stefano Guerriero, MD, Monica Mascia, MD, Enrico Solla, MD, and Gian Benedetto Melis, MD

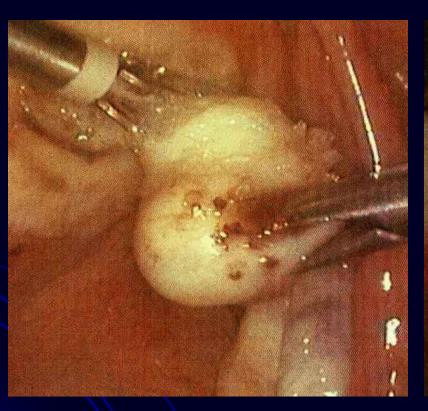
February 1996 Am J Obstet Gynecol

Cagliari, Italy

Outcome measures	$\begin{array}{c} Laparoscopy\\ (n=20) \end{array}$	$\begin{array}{c} Laparotomy\\ (n=20) \end{array}$	Significance
Blood loss (ml)*	200 ± 50	230 ± 44	p > 0.05
Operation time	100 ± 31	93 ± 27	p > 0.05
(min)*			
Analgesic injec- tions*	1.9 ± 0.7	4.1 ± 1.4	p < 0.05
Analgesic-free patients at day 2 (%)	85	15	p < 0.05
Patients dis- charged by day 3 (%)	90	10	p < 0.05
Patients fully re- cuperated at day 15 (%)	90	5	p < 0.05

Sugere laparoscopia para até 5 miomas (maior <u>com</u> <u>menos de 7 cm</u>)







Randomized study of laparoscopic versus minilaparotomic myomectomy for uterine myomas

Franco Alessandri, MD, Davide Lijoi, MD, Emanuela Mistrangelo, MD, Simone Ferrero, MD, and Nicola Ragni, MD

THE JOURNAL OF MINIMALLY INVASIVE GYNECOLOGY

	Minilaparotomy	Laparoscopy		
	(n = 74)	(n = 72)	p Value	
Operation time (min; mean ± SD)	85 ± 14	98 ± 13	<.001	
Decline of hemoglobin concentration (g/dL; mean ± SD)	2.2 ± 0.5	1.1 ± 0.5	<.001	
Pain intensity in the whole study group at 6 hours after surgery (on a 10 mm VAS scale; mean ± SD)	6.5 ± 1.5	4.1 ± 1.5	<.001	
Pain intensity in patients not requesting analgesics at 24 hours after surgery (on a 10 mm VAS scale; mean ± SD)	2.8 ± 1.8 (n=20)	3.1 ± 1.5 (n=48)	.519	
Request of analgesic (n; %, 95% confidence interval)	54 (73.0%, 61.4%-82.6%)	25 (34.7%, 23.9%-46.9%)	<.001	
Time of postoperative ileus (hours; mean ± SD)	45 ± 6	28 ± 6	<.001	
Time to discharge (hours; mean \pm SD)	48 ± 12	38 ± 12	<.001	
Patients fully recuperated on day 15 (n; %, 95% confidence interval)	55 (74.3%, 62.8%-83.8%)	65 (90.3%, 81.0%-96.0%)	.012	

A multicenter randomized, controlled study comparing laparoscopic versus minilaparotomic myomectomy: short-term outcomes Palomba et al.

Main parameters evaluated during and after surgery in the laparoscopic and minilaparotomic groups.

Group	Laparoscopy (n = 68)	Minilaparotomy (n = 68)	P value
Total operative time (min)	108 (28); 69–150	95 (53); 62-174	.227
Time of enucleation for each leiomyoma (min)	12 (3); 8-16	10 (7); 4–16	.005
Time of suturing hysterotomy (min)	18 (4); 13–26	16.5 (12); 7–26	.020
Intraoperative blood loss (mL)	130 (78); 90-200	160.0 (65); 90-280	.001
⊿Hb	0.8 (0.7); 0.2-2.1	1.3 (0.8); 0.2-2.5	<.001
Degree of surgical difficulty	7.5 (2); 4-9	6 (3); 3–9	.003
Vials of analgesic used (n)	3 (2); 1-8	7 (2); 2–10	<.001
Postoperative ileus (days)	1 (0); 1–3	1 (1); 1–3	.061
Hospitalization (days)	2 (0); 2-5	3 (0); 3-5	<.001
Time to return to full activity (days)	5 (2); 3–11	5 (2); 3–12	.502

Note: Data are expressed as median (interquartile range) and minimum-maximum values.

Palomba. Laparoscopic and minilaparotomic myomectomy. Fertil Steril 2007.

Tratamento cirúrgico (Laparoscopia x Laparotomia)

Human Reproduction vol.15 no.12 pp.2663-2668, 2000

Fertility and obstetric outcome after laparoscopic myomectomy of large myomata: a randomized comparison with abdominal myomectomy

R.Seracchioli, S.Rossi, F.Govoni, E.Rossi, S.Venturoli, C.Bulletti and C.Flamigni

Table III. Obstetric outcome after abdominal or laparoscopic myomectomy

	Abdominal	Laparoscopic
	myomectomy	myomectomy
Pregnancy rate (%)	33/59 (55.9)	30/56 (53.6)
Abortion rate (%)	4 (12.1)	6 (20)
Ongoing pregnancy	2	3
Ectopic pregnancy	0	1
Deliveries	27	20
Preterm deliveries (%)	2 (7.4)	1 (5)
Vaginal deliveries (%)	6 (22.2)	7 (35)
Caesarean sections (%)	21 (77.8)	13 (65)
Uterine rupture	0	0

There were no significant differences between the groups.

Tratamento cirúrgico (Laparoscopia x Laparotomia)

Human Reproduction Vol.16, No.4 pp. 770-774, 2001

Long-term results of laparoscopic myomectomy: recurrence rate in comparison with abdominal myomectomy

Alfonso Rossetti¹, Ornella Sizzi¹, Liberato Soranna², Francesco Cucinelli², Salvatore Mancuso² and Antonio Lanzone^{3,4}

	Laparoscopic myomectomy (41 patients)	Abdominal myomectomy (40 patients)
Pre-operative study		
Pelvic pain (%)	29	30
Sterility (%)	34	35
Menorrhagia (%)	31	29
Pelvic mass (%)	6	6
Myomectomy study		
Age (years) ^a	35 ± 5	35 ± 3
Number of myomas	90	94
Volume of myomas (cm ³) ^a	92.5 + 108.5	152 + 137
Number of myomas/patient (range) Follow-up study	2.2 (1–7)	2.3 (1–7)
Myoma recurrences (%)	11/41 (27)	9/40 (23)

Tratamentos alternativos? (embolização dos miomas; Exablate)

- Não existem estudos prospectivos comparando a embolização ou o uso do exablate com a miomectomia em relação à taxa de gestação.
- O uso da embolização ou do exablate em pacientes que ainda desejam gestar, no momento, deve ser limitado aos ensaios clínicos.

CONSIDERAÇÕES FINAIS

- Conduta deve ser baseada em evidências
- Bom senso deve prevalecer para saber individualizar
- Era da responsabilidade médica