HOLOGIC®

TEN YEAR META-ANALYSIS: FIBROID MANAGEMENT

Laparoscopic Radiofrequency Ablation (Lap-RFA) demonstrated less blood loss, shorter hospitalization, and low reintervention and readmission rates.¹

On September 7th, **Yelena Havryliuk, MD**, of Weill Cornell Medical College, New York, NY, presented a ten-year (2006-2016) systematic review and metaanalysis on symptomatic fibroids at MIS Week 2017 hosted by The Society of Laparoendoscopic Surgeons, in San Francisco, CA

- Complete assessment of 143 articles
- Referenced 45 articles in analysis
- Compared:

STUDY FINDINGS

- Hysterectomy
- Myomectomy
- Uterine artery embolization (UAE)
- Laparoscopic radiofrequency ablation (Lap-RFA)
- Magnetic resonance-guided focused ultrasound (MRg-FUS)

REVIEW ARTICLE JSLS

roscopic radiofrequency ablation, a nance-guided focused ultrasound).

Conclusion: We explored item cians when counseling patients symptomatic fibroids. We foun trending toward uterine-conserv

Key Words: broid, Uterin

Symptomatic Fibroid Management: Systematic Review of the Literature

Yelena Havryliuk, MD, Robert Setton, MD, John J. Carlow, EdD, MPH, Barry D. Shaktman, MD

ABSTRACT

lackground and Objectives: Symptomatic uterion [6 prokis are a societal and healthcare burden with no clea consensus among medical professionals as to which proedual treatment is most appropriate for each symptom tic patient. Our purpose was to determine whether resmendations can be made regarding best practice bases in review and analysis of the literature since 2006. Databases. A systematic search of isournal articles relevan

Jonasone A spiremate starts or partial markets trees formed with PMMs distant starts were start medical device manufacturers wereboles. All clinical in published in English, engressning conjular sesarch, an exporting dinical outcomes associated with intervention for the management of opportuniat uterine flowds we considered. Each attick was reserved and selected has on mark types, content, relevance, American College and a vality. Outcomes of interest were patient hands completations, and long-term follow-up. Random-effect haracteristics, flowde characteristics, concedual detail completations, and long-term follow-up. Random-effect Ausenment of 143 full-length articles through Janue Ware compared with hour form utering surveying have were compared with hour form utering surveying three adules formometers, utering attree used bases.

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INTRODUCTION Symptomatic sterios filosida (deionyoma or myomaa) represent a ajofficaria coscial and healthcare burden, and there is no char consensus among medical perfessionals as to which transmers is appropriate for their symptomatic patients. These benign, solid myometrial aurons are the minimale cumulative incidence of up to 20% in while women and 60% in black women during the premonand and the extent of myntoms depends on fittedia of cases, and the extent of myntoms depends on fittedia flowids typically manifest with abnormal toeting block of cases, and the extent of myntoms depends on fittedia flowids typically manifest with abnormal toeting block and bowed or bladde depfunction. Symptomacic patients and bowed or bladde depfunction, Symptomacic patients and power or bladde depfunction, Symptomacic patients and power or bladde depfunction, Symptomacic patients and bowed or bladde depfunctions.

Annual direct and indirect costs of symptomatic fibroids in the United States may exceed \$34 billions ⁶Of the more than 400,000 hipatient hysterectomics performed annually in the United States, the overwhelming indications are symptomatic fibroids initially choose nonsungical management, this approach fails in many, and patients may then

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	Lap-RFA	Myomectomy	UAE	Hysterectomy
Procedure Details & Early Follow Up				
Blood Loss	35.4 mL	175.5 mL	NA	269.3 mL
Length of Stay	0 days	2.0 days	2.4 days	2.2 days
Complications, major	1.7%	3.5%	2.7%	2.1%
Long Term Follow Up				
Duration of follow up	27.0 months	34.7 months	13.5 months	11.2 months
Number of patients	209 pts	689 pts	1423 pts	334 pts
Reintervention rate	5.2%	4.2%	14.8%	NA
Readmission rates	0.7%	2.7%	3.4%	7.4%
Symptom Severity (lower is better)	19.5	37	38	7.6
HQL (higher is better)	94.1	84.1	78.9	67.9

MRg-FUS results not included in table summary, are available in full text



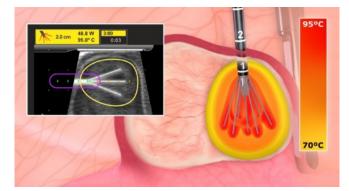
TEN YEAR META-ANALYSIS: FIBROID MANAGEMENT (CONTINUED)

Laparoscopic Radiofrequency Ablation (Lap-RFA) demonstrated less blood loss, shorter hospitalization, and low reintervention and readmission rates.¹

KEY TAKEAWAYS

- Mean estimated blood loss following hysterectomy and myomectomy exceeded 269 ml and 175 ml respectively, whereas Lap-RFA was 35 ml (8x less than hysterectomy)
- Hospitalization after hysterectomy, myomectomy and UAE ranged from a mean of 2.0 days to 2.4 days, whereas Lap-RFA and MRg-FUS were performed as outpatient procedures
- Weighted average reintervention after MRg-FUS and UAE ranged from 30.5% to 14.8% (at 13-14 months), respectively compared to Lap-RFA and myomectomy at 5.2% and 4.2% (at 27-35 months), respectively
- Readmission rates within 90 days of discharge for MRg-FUS, UAE and myomectomy were 74, 3.4 and 2.7%, respectively compared to Lap-RFA at 0.7%

LAPAROSCOPIC RADIOFREQUENCY ABLATION (LAP-RFA)



"Our analysis indicates that Lap-RFA is associated with low complication rates, minimal EBL, and low reintervention rates. In addition, patients reported major improvement in their HRQL and symptom severity scores compared to reports of more traditional interventions, such as hysterectomy, myomectomy, and UAE."

ACESSA® PROCEDURE

- Minimally invasive, uterine sparing option for women
- Unlike many alternative interventions, the Acessa Procedure can treat nearly all types of fibroids, including those outside the uterine cavity and within uterine walls³
- The procedure requires no suturing of uterine tissue, and patients typically go home the same day and return to normal activities within 4-5 days²
- Over 4,000 women have been treated with the Acessa System⁴

Sources

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