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## RSNA Press Release

### Quality of Life Significantly Increases After Uterine Fibroid Treatment

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OAK BROOK, Ill. — Women who received one of three treatments for uterine fibroids at Brigham and Women's Hospital in Boston said their symptoms diminished and their quality of life significantly increased, according to a new study published in the June issue of *Radiology*.

Uterine fibroids are benign pelvic tumors that occur in as many as one in five women during their childbearing years. Although not all fibroids cause symptoms, some women experience heavy bleeding, pain and infertility. Treatment options include hysterectomy, minimally invasive uterine artery embolization (UAE) and a noninvasive MR-guided focused ultrasound (MRgFUS) procedure.

"When discussing treatment options for women with uterine fibroids, the pros and cons of each treatment option need to be outlined," said the study's lead author, Fiona M. Fennessy, M.D., Ph.D., assistant professor of radiology at Harvard Medical School. "But until now, we haven't been able to evaluate all of the options with health-related quality-of-life measures, assessing symptom relief as well as the pain, anxiety or recovery time associated with the treatment itself."

In the study, researchers surveyed a total of 197 women who underwent hysterectomy (62), UAE (74) and MRgFUS (61) for symptomatic uterine fibroids between 2004 and 2006. The mean ages of the women in three groups were 47, 44 and 47, respectively.

A utility weight (a single unit of measure that encompasses all the different quality-of-life benefits from a health care intervention) was obtained for each of the fibroid treatment options, allowing comparisons of quality of life before and after treatment.

In addition, short-term utility weights for the actual treatments the women underwent were compared, allowing comparison of the actual treatment experiences among the options. To

#### At A Glance

- Women who underwent uterine fibroid treatment significantly increased their quality of life after the procedure.
- Patients rated non- or minimally invasive treatments more favorably than hysterectomy.
- As many as 20% of women develop uterine fibroids during their childbearing years.

do this, the researchers used the waiting trade-off (WTO) method, which is based on the fact that people tend to wait longer to avoid unpleasant tests or procedures. Analysis by the WTO method provides short-term quality-of-life tolls in terms of quality-adjusted life-weeks.

"Quality of life significantly increased following each of the fibroid treatment options," Dr. Fennessy said. "But patients rated the non- or minimally invasive treatments –UAE and MRgFUS – more favorably."

Patients who underwent a hysterectomy reported that they would wait 21 weeks in order to avoid the procedure, while patients in the other two groups said they would put off their procedures by only 14 weeks.

The minimally invasive UAE procedure, which is increasingly used as an alternative to the surgical removal of the uterus (hysterectomy), requires only a small nick in the skin, through which a catheter is inserted to deliver particles that block blood flow to the fibroids. UAE may be associated with a number of days of pain and cramping. The MRgFUS procedure, which was approved by the U.S. Food and Drug Administration in 2004 as a treatment option for uterine fibroids, is noninvasive: it uses ultrasound energy to ablate the fibroids. MRgFUS is quick and painless for many, and symptom relief has been shown to occur by 12 weeks.

"In order to be widely adopted, MRgFUS must be deemed as beneficial as the established alternatives," Dr. Fennessy said. "Our study not only provides measures to aid in future cost-utility analysis of uterine fibroid treatments, but it may be helpful to patient and physician decision-making with regard to treatment options."

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"Quality-of-Life Assessment of Fibroid Treatment Options and Outcomes." Collaborating with Dr. Fennessy were Chung Yin Kong, Ph.D., Clare M. Tempany, M.D., and J. Shannon Swan, M.D.

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