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EMBARGOED FOR RELEASE UNTIL TUESDAY, MARCH 29, 2011, AT 8 A.M. (Eastern)

Pelvic Arterial Embolization for Postpartum Hemorrhage Saves Lives, Preserves Uterus

Interventional Radiology Treatment: Safe and Effective—and It Avoids Hysterectomy

CHICAGO, Ill. (March 29, 2011)—Pelvic arterial embolization or PAE, a minimally invasive, life-saving therapy, is a safe and effective treatment for postpartum hemorrhage, say researchers at the Society of Interventional Radiology's 36th Annual Scientific Meeting in Chicago, Ill.

"This large 225-patient study, in which 86 percent of the patients treated showed positive results illustrated that pelvic arterial embolization has the advantages of being a safe, rapid, economic and repeatable procedure—performed without general anesthesia," said Ji Hoon Shin, M.D., associate professor with the radiology department, Asan Medical Center, University of Ulsan College of Medicine in Seoul, South Korea. Shin continued, "Moreover, pelvic arterial embolization preserves the uterus, allowing resumption of menstruation and preserving fertility."

"Traditional surgical methods to stem postpartum hemorrhage, such as uterine artery ligation, uterine suturing and hysterectomy, involve the loss of fertility and risks from general anesthesia," said Shin. "Many obstetricians and gynecologists know the usefulness of pelvic arterial embolization over surgery, yet there is not always a connection between them and the interventional radiologist," explained Shin. "Collaboration with these doctors is imperative with the hope that they will begin to refer patients to an interventional radiologist for treatment, making pelvic arterial embolization a more popular alternative to surgery," he added.

"All women who carry a pregnancy beyond 20 weeks' gestation are at risk for postpartum hemorrhage or PPH, which remains one of the major causes of maternal morbidity and mortality throughout the world," said Shin. "Many case studies have reported on pelvic arterial embolization's usefulness for the control of postpartum hemorrhage, yet most of them involved fewer than 100 patients. This study, based on the treatment of 225 patients in a single center, had an initial clinical success rate of 86 percent," he added.

Shin notes that with repeat pelvic arterial embolization, the clinical success rate increased to 89 percent. "As is with many other interventional radiology procedures, this is a life-saving, minimally invasive treatment that preserves patient quality of life and speeds recovery," stated Shin. The results also showed that some patients needed additional PAE sessions or surgeries; therefore, overall bleeding control was achieved in 97.8 percent of the patients studied.

Once a baby is delivered, the uterus normally continues to contract expelling the placenta. After the placenta is delivered, these contractions help compress the bleeding vessels in the area where the placenta was attached. The most common cause of postpartum hemorrhage occurs if the uterus does not contract strongly enough and these blood vessels bleed freely, said Shin. Such excessive and rapid blood loss can cause a severe drop in the mother's blood pressure and, if left untreated, may lead to shock and death.

For many years, hysterectomy has remained the only solution to controlling bleeding and arresting postpartum hemorrhage that was unresponsive to conservative medical management, said Shin. In surgery to control the hemorrhage, a physician must open the lower abdomen and tie off bleeding arteries to the uterus, repair the uterus or remove it entirely.

With pelvic arterial embolization, an interventional radiologist makes a tiny nick in the skin in the groin and, using real-time imaging, guides a catheter into the arteries supplying the uterus and injects small particles that block the blood flow to the uterus and stop the bleeding.

Between January 2000 and June 2010, the outcomes on 225 patients (average age, 32 years), who underwent PAE for primary postpartum hemorrhage, were analyzed. The researchers defined clinical success as cessation of bleeding following an initial session without the need for additional therapy or surgery.

While these results are promising, Shin stressed the necessity to explore the impact of the treatment on future fertility. And, noted Shin, most patients referred for pelvic arterial embolization had stable blood pressure, so other studies will be forthcoming on the treatment's role in a clinical setting where the patient's condition may be more unstable.

More information about the Society of Interventional Radiology, interventional radiologists and minimally invasive treatments can be found online at www.SIRweb.org.

Abstract 214: "Pelvic Arterial Embolization for Primary Postpartum Hemorrhage: Outcome in 225 Patients at a Single Institution," J. Shin, H. Lee, H. Yoon, K. Cho, J. Kim, G. Ko, D. Gwon, K. Sung; radiology, Asan Medical Center, Seoul, Republic of Korea, SIR 36th Annual Scientific Meeting, March 26–31, 2011. This abstract can be found at www.SIRmeeting.org.

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About the Society of Interventional Radiology

Interventional radiologists are physicians who specialize in minimally invasive, targeted treatments. They offer the most in-depth knowledge of the least invasive treatments available coupled with diagnostic and clinical experience across all specialties. They use X-ray, MRI and other imaging to advance a catheter in the body, such as in an artery, to treat at the source of the disease internally. As the inventors of angioplasty and the catheter-delivered stent, which were first used in the legs to treat peripheral arterial disease, interventional radiologists pioneered minimally invasive modern medicine. Today, interventional oncology is a growing specialty area of interventional radiology. Interventional radiologists can deliver treatments for cancer directly to the tumor without significant side effects or damage to nearby normal tissue.

Many conditions that once required surgery can be treated less invasively by interventional radiologists. Interventional radiology treatments offer less risk, less pain and less recovery time compared to open surgery. Visit www.SIRweb.org.

The Society of Interventional Radiology is holding its 36th Annual Scientific Meeting March 26–31 at McCormick Place (West Building) in Chicago, Ill. The theme of the meeting is "IR Rising: Leading Image-guided Medicine," chosen to reflect interventional radiology's continued revolutionizing of modern medicine.

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