



Clinical Support for the Use of Saline and Air For Tubal Patency (HyCoSy/Sono HSG)

Cost Savings of Sono HSG vs. HSG

Savelli L, Pollastri P, Guerrini M, Villa G, Manuzzi L, Mabrouk M, Rossi S, Seracchioli R: **Tolerability, side effects, and complications of Hysterosalpingocontrast sonography (HyCoSy).** *Fertility and Sterility* Vol. 92, No. 4, October 2009, 1481-1486

"It has been shown to be a feasible and accurate first-line imaging modality. Moreover, HyCoSy is rather cheap (if performed with air and saline as contrast media) compared with HSG and laparoscopy, with an estimated cost around 30 to 55 Euros in Italy for the disposable material. Compared with HSG, HyCoSy is less invasive, avoids ovarian exposure to x-rays and the risk of allergic reactions, provides information on uterine cavity and ovarian morphology, and can be performed by the reproductive medicine specialist evaluating the infertile couple. In addition, HyCoSy is better tolerated than HSG."

Graziano A, Lo Monte G, Soave I, Caserta D, Moscarini M, Marci R, et al: **Sonohysterosalpingography: a suitable choice in infertility workup.** *Med Ultrasonics* DOI 10.1007/s10396-012-0417-0. November 2012

"Cost analysis was performed on the basis of the cost to the Italian National Health Service. The final cost for a single HyCoSy was estimated to be €21.70, for hysteroscopy it was €21.70, and for a single RX-HSG it was €108.45.

HyCoSy is also more cost-effective than HSG. Most infertility centers have an ultrasound unit capable of fulfilling all that is needed to perform an HyCoSy. In our study, the overall cost of HyCoSy and hysteroscopy was significantly lower than the cost of RX-HSG."

Saunders R D, Shwayder J M, J.D., Nakajima S T, et al: **Current methods of tubal patency assessment.** *Fertility and Sterility* Vol. 95, No. 7, June 2011, 2171-2179

"The HyCoSy procedure may also prove to be the most cost-effective procedure when compared to HSG due to the latter's intrinsic requirement for radiocontrast dye, roentgenogram filmography equipment, and available technicians. Most infertility centers have an ultrasound unit capable to complete the HyCoSy procedure within their own practice setting, without the need for contractual obligations to local radiography centers."

Danielle E. Luciano, MD, Caterina Exacoustos, MD, and Anthony A. Luciano, MD: **Contrast Ultrasonography for Tubal Patency.** *Journal of Minimally Invasive Gynecology*, Volume 21, No. 6, November–December 2014, Pages 994-998 (Saline and Air)

"The most simple and inexpensive contrast medium used is saline solution mixed with air. Tubal patency is observed by visualizing the hyperechoic air bubbles traversing the tubal course and surrounding the ovary and then spilling into the peritoneal cavity."