



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

## Accuracy of Sono HSG vs. HSG

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

“Accuracy of HyCoSy for tubal patency has been demonstrated to be comparable to that of hysterosalpingography (HSG) when compared with laparoscopic chromopertubation.”

“HyCoSy offers similar accuracy as HSG when compared with laparoscopy for tubal patency, and with saline solution–infused sonography, superior accuracy when compared with HSG for evaluation of the uterine cavity.”

*Luciano et al. Contrast US for Tubal Patency*

TABLE 1: Comparison of Accuracy of Various Methods of Determining Tubal Patency <sup>a</sup>				
Variable	HSG vs LC	HyCoSy vs HSG	HyCoSy vs LC	3D HyCoSy vs LC
Sensitivity	72-88	67-100	75-96	84-100
Specificity	68-89	71-100	67-100	67-100
PPV	70-94	50-100	72-94	87-100
NPV	56-76	83-100	50-96	33-100

**HSG** = hysterosalpingography; **HyCoSy** = hysterosalpingo-contrast sonography; **LC** = laparoscopy chromopertubation; **NPV** = negative predictive value; **PPV** = positive predictive value.

<sup>a</sup>Values are given as percentage.

Marci R, Marcucci I, Marcucci A A, Pacini N, Salacone P, Sebastianelli A, Caponecchia L, Lo Monte G, Rago R, et al: **Hysterosalpingocontrast sonography (HyCoSy): evaluation of the pain perception, side effects and complications.** Marci et al. *BMC Medical Imaging* 2013, 13:28

“According to several studies, HyCoSy shows high overall accuracy in the evaluation of both tubal patency and uterine cavity morphology. Furthermore, HyCoSy avoids both exposure to ionizing radiation and injection of iodinated contrast medium that could potentially result toxic. In addition, HyCoSy is inexpensive, fast and devoid of surgical and anestesthesiologic risks, as opposed to laparoscopy with chromopertubation and hysteroscopy.”