



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

## Patient Tolerance of Sono HSG vs. 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* November 2012 DOI 10.1007/s10396-012-0417-0

“Pain perception and cost were higher for RX-HSG and hysteroscopy than for HyCoSy. Table 3 shows pain perception during the examinations.”

	HyCoSy (%)	RX-HSG (%)	p <sup>a</sup>	Hysteroscopy (%)	p <sup>b</sup>
Absent	37.7	0	<0.05	11	<0.05
Mild	43.2	9.1	<0.05	41.9	NS
Moderate	17.9	53.9	<0.05	39	<0.05
Severe	1.3	37	<0.05	8.1	<0.05

NS not significant <sup>a</sup> HyCoSy versus RX-HSG <sup>b</sup> HyCoSy versus hysteroscopy

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

“There was no significant difference in reported procedure time, quantity of contrast used, patient tolerability, or other reported adverse effects (i.e., vaginal bleeding, presyncope symptoms, presumed infection).”

Study	Mean Procedure Time (Min)	Mean Required Contrast (mL)	Reported Pain During Procedure (%)	Reported Pain 24 Hours After Procedure (%)	Pain ≤ Usual Menses (%)
HyCoSy	12.1	9.4	56	41	100
HSG	9.5	11.5	72	47	85

HyCoSy = hysterosalpingo-contrast sonography; HSG = hysterosalpingography

Saunders. *Tubal patency assessment. Fertil Steril* 2011.



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## Patient Tolerance of Sono HSG vs. HSG (*Continued*)

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

“Our data prove that HyCoSy is a well-tolerated examination and it is associated to a low incidence of related complications and side-effects. The pain experienced by the patients is usually mild and comparable to the cramping pain felt during a normal menstrual cycle.”

	N (%)
Mean numeric rating scale	2.15 ± 2.0 SD
Pain Perception:	
• Absent	374/632 (59.17%)
• Mild	154/632 (24.36%)
• Moderate	63/632 (9.96%)
• Severe	41/632 (6.49%)
Painkiller required	15/632 (2.37%)
Mild vaso-vagal reactions (pallor, nausea, sudation, hypotension, bradycardia)	26/632 (4.11%)
Severe vaso-vagal reactions (vomiting, confusion, syncope)	0/632 (0%)
Complications (haemorrhage, PID, fever)	0/632 (0%)