Hysterosalpingo Contrast Sonography - Comparison of new contrast lignosal (mixture of lignocaine 2% jelly with normal saline) with saline as contrast for the evaluation of tubal patency.

Dr. Narayana Rao Chegondi, Shilpa scan centre, Palakol, India, Email - chnr42@yahoo.com

Objective

To assess and compare the accuracy of hycosy with new contrast lignosal versus saline with air mixture in the evaluation of tubal patency

Methods

It is a prospective, observational single centre study. We completed 2D HyCoSy procedure with lignosal contrast for infertility in 1500 patients, 65 of whom were separated and we have performed both procedures with saline with air and with lignosal contrast in the same sitting. In all these patients first we have injected saline with air mixture and studied the results, followed by injection of lignosal contrast and tubes are visualised as echogenic and spill observed as shower from fimbrial ends. We recorded the results of both procedures.

Results

Out of 65 cases studied with saline procedure, in 52 cases (80%) we could observe the spill from both tubes and collection of fluid in culde sac. In 10 (15%) cases we could see collection of fluid in culde sac, but we could not observe from which side it was coming. In 3 cases we did not see any fluid collection. But with hycosy using lignosal contrast in 60 cases (92%) we could see the echogenic tubes and spill from both sides. In 3 cases we could not see the tubes and spill from one side. In 2 cases we could not visualise tubes and spill from both sides. Our results are confirmed with X-ray HSG.

Conclusion

So we conclude that hycosy with lignosal contrast was proved to be very successful o.p procedure and more accurate than saline infusion sonography for evaluation of tubal patency.