EP16.04 Three dimensional (3D) HysteroSalpingo Contrast Sonography with new contrast lignosal (mixture of lignocaine 2% jelly and normal saline) for the assessment of tubal patency.
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Objective

To assess the accuracy of 3D hycosy with the new contrast Lignosal (mixture of 2% lignocaine jelly, air and saline) for the evaluation of tubal patency in infertile women.

Methods

It is a prospective, observational study of 35 infertile women

Routine written consent taken and routine TVS done. Under strict aseptic conditions, 8f foleys catheter introduced into uterine cavity. Echogenic contrast (lignosal) prepared by vigorous mixing of lignocaine, air and saline and injected into uterine cavity under TVS guidance. Tubes are seen as echogenic and spill seen from fimbrial ends as shower. 3D acquisition done while injecting the contrast and stored the volumes for post processing.

Results

For detecting tubal patency among the 70 fallopian tubes assessed, 3D hycosy with Lignosal had a sensitivity of 92 %, specificity of 85% positive and negative predictive values of 86% and 91 % respectively, and diagnostic accuracy of 90% . The test positive rates of 3D hycosy with lignosal vs lap and dye were not significantly different. Further, 7 patients conceived after 2-3 months of procedure.

Conclusion

Transvaginal 3D HyCoSy with new contrast lignosal found to be very accurate and safe and cost effective non invasive o.p procedure for tubal patency evaluation.