P03.07, Value of 3D Hysterosalpingo-Contrast sonography with new contrast [mixture of 2% lignocaine jelly, air and saline] for the evaluation of tubal patency.

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Objectives
- To investigate the accuracy of 3D Hycosy with new contrast (a mixture of lignocaine 2% jelly, air and normal saline) for the evaluation of fallopian tube patency in infertile women.

Methods
- Prospective observational study of 1300 infertile women after local ethics committee permission.
  - Routine tvs with 3D 5-9 Mhz GE voluson
  - Under strict aseptic conditions 8f foleys introduced into uterine cavity and fixed.
  - Contrast prepared by agitating the contents and slowly pushed into cavity while doing tvs. Tubes are seen as echogenic and spill seen from fimbrial end as “shower” when the tube are patent.
  - Simultaneous 3D acquisition and stored for further processing.
  - In 3D HD LIVE tubes and fimbrial can be visualised.

Results
- In the 1st study, 3D Hycosy done in 35 patients and compared the results with HSG for standardization of our technic
  - 3D Hycosy with new contrast had a sensitivity of 94%, specificity of 87%, ppv and NPV Values of 87% and 91% respectively and diagnostic accuracy of 92%. The test positive rates of 3D Hycosy with new contrast vs HSG were not significantly different.

Conclusion
- 3D Hycosy with lignocaine contrast was found to be very safe, accurate, cost effective with less pain and side effects when compared to HSG.

Figure 1. 3D Hycosy bilateral patent tubes

Figure 2. 3D Hycosy left tube patent. Right tube proximal block

Figure 3. 2D Hycosy with bilateral echogenic tubes and spill from fimbrial ends as shower