

# Can Tubal Flushing With Hysterosalpingo-Foam Sonography (HyFoSy) Media Increase Women's Chances of Pregnancy?

Virtual Poster

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## Study Objective

To test whether the tubal flushing due to HyCoSy with ultrasound gel foam as contrast medium (ExEm foam gel) (HyFoSy) could enhance the chances of spontaneous clinical pregnancy in women undergoing infertility investigations.

## Design

Retrospective study.

## Setting

University hospital.

## Patients

All the patients with infertility of at least 1 year who underwent a 3D HyFoSy for evaluation of tubal patency between 2011 and 2014 in our institution were invited to participate in the study.

## Intervention

Infertile patients who underwent 3D HyFoSy with at least one patent tube were included in the study. ExEm foam gel is an on-label non-embryo toxic ultrasound contrast medium containing hydroxymethylcellulose and glycerol.

By means of an 5-Fr salpingographic balloon catheter the gel foam was injected in the uterine cavity and through the tubes during three dimensional (3D) transvaginal sonographic (TVS) examination.

Primary outcome was clinical pregnancy defined as a sonographically visible gestational sac, detected within 12 months from HyFoSy. Secondary outcomes were spontaneous miscarriage and live birth in primary and secondary infertility.

## Measurements and Main Results

Of the 294 patients who were evaluated during the study period, 157 provided information on their fertility after HyFoSy. Of these 54 (34.4%) patients conceived spontaneously, 15 had a spontaneous abortion, 2 had an ectopic pregnancy, and the other 37 (23.5%) had a live birth. Cumulative pregnancy rate was 10.2% within 1 month after HyFoSy, 29.9% within 6 months and 34.4% within 12 months.

## Conclusion

Our results show that in infertile patients pregnancy rate after HyFoSy is 30% within 6 months. In secondary infertility the pregnancy rate is 38%

within 6 months. Tubal flushing due to HyFoSy improves the chance of an embryo implanting and establishing a spontaneous pregnancy.

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