**Introduction:** Hysterosalpingo-foam sonography (HyFoSy) is considered an acceptable alternative for hysterosalpingography (HSG). By combining HyFoSy with two and three-dimensional ultrasound (2D-US and 3D-US) and hydrosonography, a complete fertility work-up can be done.

**Objectives:** To evaluate the value of the combined ultrasound examination for fertility work-up.

**Methods:** An observational cohort study of all patients referred for HyFoSy at a single tertiary center, between May 2018 and May 2019. Patients underwent 2D-US, 3D-US, hydrosonography and HyFoSy. Data were recorded prospectively.

**Results:**

- **Referral for HyFoSy (n=113)**
  - Procedure abandoned* (n=10)
  - Complete Work-up (n=103)

- **3D-US**

- **Hydrosonography**

- **HyFoSy**

  - Normal 97/103 (94.2%)
  - Uterine malformation 5/103 (5.8%)
  - Intracavitary lesion 10/103 (9.7%)
  - Normal 87/103 (84.5%)
  - Bilateral tubal occlusion 16/103 (15.5%)

*Difficulty in introducing the intra-cervical catheter - 3, severe discomfort - 2, intra-uterine adhesions interfering with spread of foam - 5.

**Conclusion:** Adding 3D-US and hydrosonography to HyFoSy identified 16/103 (15.5%) pathologies that would have not been revealed by HyFoSy alone or by HSG. We suggest to consider the combined examination in routine fertility workup.