

Fertility outcomes after HyFoSy: a retrospective cohort study

Victor E.¹, Haesen J.^{1,2}, Van Schoubroeck D.¹, Van den Bosch T.^{1,2}

1 Department of Obstetrics and Gynaecology, University Hospital Leuven, Leuven, Belgium · 2 Department of Development and Regeneration, KU Leuven, Leuven, Belgium

Objectives

Hysterosalpingo-foam sonography (HyFoSy) is a contrast-enhanced ultrasound technique to assess fallopian tube patency. Previous studies have suggested a fertility-enhancing effect following the procedure. This study evaluated the occurrence of pregnancy following HyFoSy.

Methods

Single-centre retrospective cohort of women with primary/secondary subfertility (>12 months) referred for tubal patency assessment, Jan 2020–Dec 2024. Spontaneous pregnancy tracked to 6 months; ART outcomes to 4 cycles. Analysis in R (v4.5.2).

Results



Figure 1. Patient flow from referral to pregnancy outcome.

Tubal patency findings (n=850)

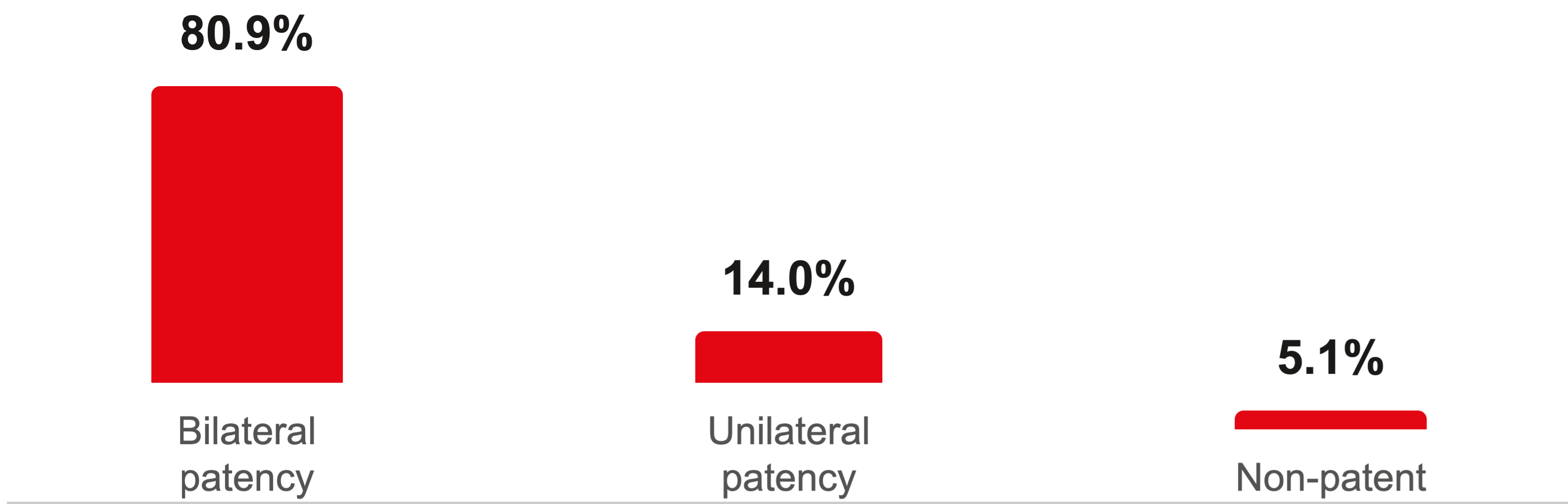
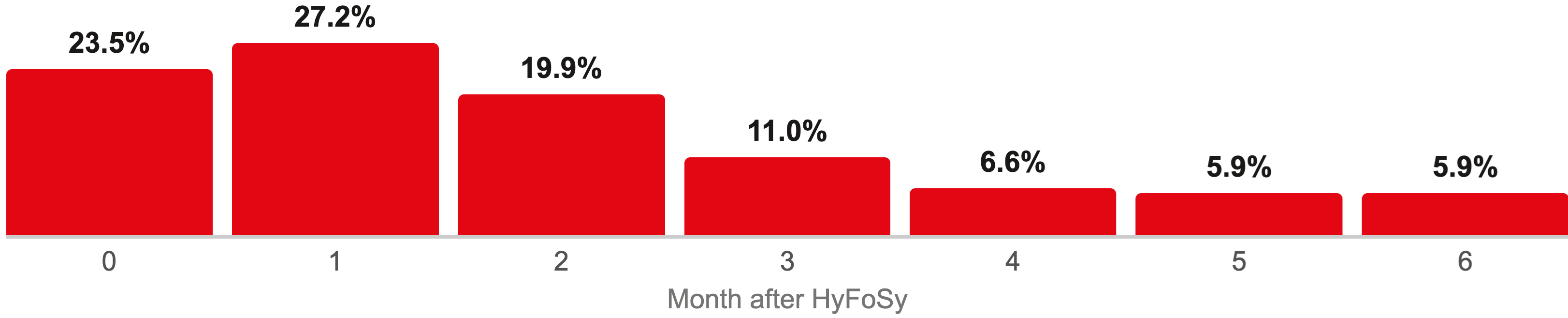


Figure 2. Tubal patency findings.

A. Spontaneous pregnancies by month after HyFoSy (n=136)



B. ART pregnancies by treatment cycle number (n=197)

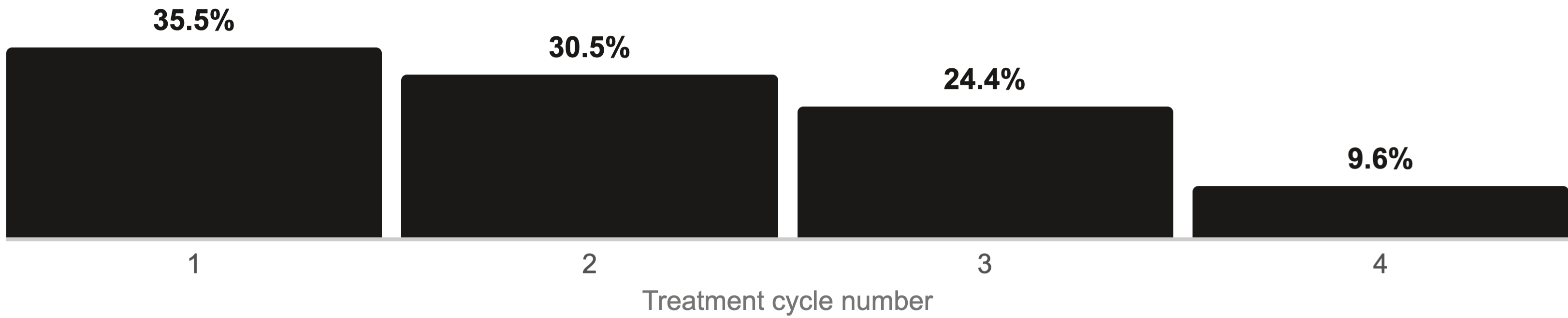


Figure 3. Distribution of pregnancies over time after HyFoSy.

Conclusions

Consistent with previous literature, our findings support that HyFoSy is an effective diagnostic tool in infertility evaluation and suggest a potential short-term fertility-enhancing effect.