# Is Hysterosalpingo-Foam Sonografie (HyFoSy) een kosteneffectief alternatief voor hysterosalpingografie (HSG) als tubadoorgankelijkheidstest in subfertiele vrouwen?

No registrations found.

**Ethical review** Positive opinion

**Status** Recruitment stopped

**Health condition type** -

**Study type** Interventional

## **Summary**

#### ID

NL-OMON28335

#### Source

Nationaal Trial Register

#### **Brief title**

**FOAM Study** 

#### **Health condition**

- Tubal patency testing
- Subfertile women
- Hysterosalpingo-foam sonography (HyFoSy)
- Hysterosalpingography (HSG)
- Cost-effectiveness
- Tubadoorgankelijkheidstest
- Subfertiele vrouwen
- Hysterosalpingo-foam sonografie (HyFoSy)
- Hysterosalpingografie (HSG)
- Kosteneffectiviteit

## **Sponsors and support**

**Primary sponsor:** VU University Medical Center

Source(s) of monetary or material Support: ZonMW

**IQ Medical Ventures** 

#### Intervention

#### **Outcome measures**

#### **Primary outcome**

The primary outcome is ongoing pregnancy rates leading to live birth within 12-months after inclusion.

#### **Secondary outcome**

The secondary outcomes are:

- Time to pregnancy
- Clinical pregnancy rate
- Miscarriage rate
- Multiple pregnancy rate
- Preterm birth rate
- Concordance between HyFoSy and HSG
- Direct and indirect costs
- Pain scores

# **Study description**

#### **Background summary**

OBJECTIVE: To investigate if tubal patency testing during the fertility work-up by hysterosalpingo-foam sonography (HyFoSy) is more cost-effective compared to hysterosalpingography (HSG).

HYPOTHESIS: We hypothesize that HyFoSy has comparable diagnostic accuracy as HSG for a 50% lower cost.

STUDY DESIGN: We plan a multicenter prospective study of women undergoing tubal patency testing by HyFoSy and HSG in a random order during fertility work-up (RCT1). Women in this study with discordant test results will be randomized for management strategy based on HyFOSy or HSG resulting in a diagnostic laparoscopy with chromopertubation (DLS) or an management based on the prognostic model of Hunault (RCT2). Data will be used in a model

based cost-effectiveness analysis.

STUDY POPULATION: Subfertile women scheduled for tubal patency testing.

INTERVENTIONS: Fertility work-up based on HyFoSy.

STANDARD INTERVENTION TO BE COMPARED TO: Fertility work-up based on HSG.

DESIGN: Women will undergo HyFoSy as well as HSG in a random order. Participants with discordant tests results (and therefore apply for different clinical treatments depending on which test was used), will be randomized for for a management strategy based on HyFoSy or HSG resulting in a DLS or a management based on the prognostic model of Hunault. From these data a strategy of outpatient tubal patency testing based on the new technique HyFoSy will be compared with a strategy of tubal patency testing based on HSG.

OUTCOME MEASURES: Ongoing pregnancy rates within 12 month after inclusion. Costs and effectiveness will be analyzed.

SAMPLE SIZE: We propose a non-inferiority effectiveness trial. Under the assumption of a 7% discordance rate between the results of HyFoSy and HSG, we need to randomize 82 women (power 80%) to demonstrate the non-inferiority of HyFoSy (difference < 2%). Basedon the anticipated 7% discordance rate we need to include a total of 1163 women in the study.

COST-EFFECTIVENESS ANALYSIS/BUDGET IMPACT ANALYSIS: The average costs and effectiveness of a strategy of tubal patency testing during fertility work up by HyFoSy or HSG as first line test will be compared. Fertility treatment and pregnancy outcomes will be evaluated after a follow-up of 12 months. Assuming that 20.000 HSGs are made annually in the Netherlands and a difference in cost of €100 in favor of HyFoSy, the budget impact will estimates a saving of over €2 million in case of non-inferiority.

TIME SCHEDULE: month 1-3: preparation; month 4-33 inclusion and follow- up; month 34-36 data analyses and reporting.

### Study objective

We hypothesize that a strategy of tubal patency testing during the fertility work-up by HyFoSy results in equal diagnostic outcomes and subsequent management decisions, which lead to similar ongoing pregnancy rates as a strategy of tubal testing by HSG, but tor lower cost.

#### Study design

Primary outcome: 12 months after inclusion

Quality of life questionaires: one day before randomisation, and after 3, 6 and 12 months

after inclusion.

#### Intervention

RCT1: Hysterosalpingo-foam sonography (HyFoSy) and hysterosalpingography (HSG) in a random order. In case of discordance test results between HyFoSy and HSG women will be included in RCT 2: management strategy based on HSG or HyFoSy resulting in a diagnostic laparoscopy with chromopertubation or an management according to the prognostic model of Hunault.  $<1x10^6$ /ml

## **Contacts**

#### **Public**

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# **Eligibility criteria**

#### Inclusion criteria

- Between 18-41 years
- Subfertile for at least one year.
- Valid indication for patency testing in the fertility work-up or before intra-uterine insemination treatment.

#### **Exclusion criteria**

- Anovulation not responding on ovulation induction
- Endometriosis

- Tubal patency testing in the past
- Severe male factor with a Total motile sperm count <1x106/ml
- Known contrast (iodine) allergy
- If not willing or able to sign the informed consent

# Study design

## **Design**

Study type: Interventional

Intervention model: Parallel

Allocation: Randomized controlled trial

Masking: Open (masking not used)

Control: Active

#### Recruitment

NL

Recruitment status: Recruitment stopped

Start date (anticipated): 07-05-2015

Enrollment: 1163

Type: Actual

## **IPD** sharing statement

Plan to share IPD: Undecided

# **Ethics review**

Positive opinion

Date: 19-08-2014

Application type: First submission

# **Study registrations**

## Followed up by the following (possibly more current) registration

ID: 47620

Bron: ToetsingOnline

Titel:

## Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

Register ID

NTR-new NL4587 NTR-old NTR4746

CCMO NL50484.029.14 OMON NL-OMON47620

# **Study results**

#### **Summary results**

Study protocol publication: J. van Rijswijk, N. van Welie, K. Dreyer et al., "Te FOAM study: is Hysterosalpingo foam sonography (HyFoSy) a cost-effective alternative for hysterosalpingography (HSG) in assessing tubal patency in subfertile women? study protocol for a randomized controlled trial for a randomized controlled trial," BMC Womens Health, vol. 18, no. 64, 2018.