

# Gel instillation sonohysterography (GIS) using Endosgel versus ExEmgel, comparison of pain and image quality (Gel contrast echoscopie gebruikmakende van Endosgel versus ExEmgel, vergelijking van pijn en beeldkwaliteit)

|                                        |                                                              |                                                                                                              |
|----------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Submission date</b><br>19/02/2014   | <b>Recruitment status</b><br>No longer recruiting            | <input type="checkbox"/> Prospectively registered<br><input type="checkbox"/> Protocol                       |
| <b>Registration date</b><br>14/07/2014 | <b>Overall study status</b><br>Completed                     | <input type="checkbox"/> Statistical analysis plan<br><input type="checkbox"/> Results                       |
| <b>Last Edited</b><br>14/07/2014       | <b>Condition category</b><br>Urological and Genital Diseases | <input type="checkbox"/> Individual participant data<br><input type="checkbox"/> Record updated in last year |

## Plain English summary of protocol

### Background and study aims

Saline infusion sonohysterography is an accurate ultrasound procedure that allows health care professionals to look at the inside of the uterus (endometrial cavity) and the uterus lining (endometrium). They are used for a number of reasons, including looking for polyps, investigating the reasons for postmenopausal (after the menopause) bleeding and looking at the shape of the endometrial cavity (this can be useful in investigating problems such as multiple miscarriages or infertility). It is a simple procedure often done in outpatient clinics, but it can be uncomfortable due to leaking of the saline during the test. Gel is now often used instead, as it is thought that using a gel (gel infusion sonohysterography) is less painful than saline and that it produces clearer images and allows for 3D sonography (for example, 3D ultrasound). A number of gels are available, some containing pure hydroxyethyl glycerin, others containing small amount of chlorhexidine with or without lidocaine. This may be important, as different gels may affect how painful the procedure is, cause different side effects and affect the quality of the image made, but there is, as yet, no published data on this. We suggest that a sonohysterography using gel that contains small amounts of chlorhexidine will be more painful than if a gel containing pure hydroxyethyl glycerine is used, but the resulting images produced will be of equal quality. The main purpose of this study is to compare two types of gel, Endosgel (which contains chlorhexidine) and ExEmgel (containing hydroxyethylcellulose and glycerol)

### Who can participate?

Women aged between 20-80 years, suffering from either abnormal bleeding from the uterus or infertility believed to be due to an abnormality of the uterus and planned for a gel infusion sonohysterography (GIS).

### What does the study involve?

Patients are randomly allocated into one of two groups. One group has GIS using Endosgel and

the other group ExEmgel. Patients report on any pain felt during the procedure and the quality of the images obtained compared. Patients are then called by telephone to talk again about any pain experienced 3 weeks and then 3 months after the GIS

What are the possible benefits and risks of participating?

Both gels are used routinely and, in general, are well-tolerated and safe. Some discomfort may be felt by patients during the procedure.

Where is the study run from?

The VU University Medical Center (Netherlands)

When is the study starting and how long is it expected to run for?

September 2012 to March 2014

Who is funding the study?

1. Dutch Ministry of Education, Culture and Science (Netherlands)

2. VU University Medical Center (Netherlands)

Who is the main contact?

Dr Judith Huirne

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## Contact information

### Type(s)

Scientific

### Contact name

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## Additional identifiers

### Protocol serial number

34744

## Study information

### Scientific Title

Gel instillation sonohysterography (GIS) using Endosgel versus ExEmgel, comparison of pain and image quality

### Acronym

GISPAIN (Gel Insillation Sonography and PAIN scores)

### **Study objectives**

The purpose of this study is to compare two types of gel, Endosgel and ExEmgel, during gel instillation sonohysterography with respect to patients pain perception and image quality. We hypothesize that gel including small amounts of chlorhexidine induces more pain compared to pure hydroxethyl glycerin gel.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Medical Ethical Review Committee VU University Medical Center (Medisch Etische Toetsingscommissie Vrije Universiteit medisch centrum), 09/03/2012, ref. 2011/36

### **Primary study design**

Interventional

### **Study design**

Single-centre randomised controlled trial, blinded for the patient and examiners of the saved 3D images with respect to used type of gel (double-blind)

### **Study type(s)**

Diagnostic

### **Health condition(s) or problem(s) studied**

Healthy participants with abnormal uterine bleeding or infertility and suspected for having a intrauterine abnormality

### **Interventions**

Intervention group: The use of ExEmgel.

Control group: The use of Endosgel.

Both gels are used in daily practice (in the VU University Medical Center [VUmc]) during GIS.

### **Intervention Type**

Other

### **Phase**

Not Applicable

### **Primary outcome(s)**

AUC of continuous registered pain score (continuous VAS) during gel installation and following sonography.

### **Key secondary outcome(s)**

1. Pain score (AUC using continuous pain registration) of the entire procedure and of specific parts of the procedure
  2. Subjective reported VAS score
  3. Image quality
- Various prognostic factors will be registered.

**Completion date**

01/03/2014

## Eligibility

**Key inclusion criteria**

1. Woman with abnormal uterine bleeding or infertility and suspected for having an intrauterine abnormality
2. Age 20-80 yr

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Sex**

Female

**Key exclusion criteria**

1. Pregnancy or premenopausal women in the luteal phase without use of contraception
2. Pelvic Inflammatory Disease (PID)
3. Risk of malignancy
4. Contraindication for the use of NSAIDS
5. Known allergy for chlorhexidine
6. Inability to understand Dutch or English

**Date of first enrolment**

01/09/2012

**Date of final enrolment**

01/03/2014

## Locations

**Countries of recruitment**

Netherlands

**Study participating centre**

Boelelaan 1117

Amsterdam

Netherlands

1081HV

# Sponsor information

## Organisation

VU University Medical Center (Netherlands)

## ROR

<https://ror.org/00q6h8f30>

# Funder(s)

## Funder type

Government

## Funder Name

Dutch Ministry of Education, Culture and Science (Netherlands)

## Funder Name

VU University Medical Center (Netherlands)

# Results and Publications

## Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration

## Study outputs

| Output type                                   | Details                       | Date created | Date added | Peer reviewed? | Patient-facing? |
|-----------------------------------------------|-------------------------------|--------------|------------|----------------|-----------------|
| <a href="#">Participant information sheet</a> | Participant information sheet | 11/11/2025   | 11/11/2025 | No             | Yes             |