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The influence of ultrasound contrast for fertility investigation on spontaneous pregnancy

Submission date	Recruitment status	[_] Prospectively registered
15/08/2008	No longer recruiting	[_] Protocol
Registration date	**Overall study status**	[_] Statistical analysis plan
26/09/2008	Completed	[X] Results
Last Edited	**Condition category**	[_] Individual participant data
27/01/2009	Pregnancy and Childbirth	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Study information

Scientific Title
The influence of hysterosalpingo contrast sonography (HyCoSy) on spontaneous pregnancy

Study objectives
At our fertility centre, there was a clinical impression that patients who underwent a hysterosalpingo contrast sonography (HyCoSy) often attained spontaneous pregnancy. A second impression was that the conception occurred shortly after the HyCoSy. A retrospective analysis demonstrated that 50 patients out of 350 (15%) who underwent HyCoSy conceived within a 6 month period. The expected conception rate among patients who did not undergo a HyCoSy for

various reasons was estimated to be 5%. Based on this background data a prospective randomised controlled study was initiated at our clinic. The aim of the study was to test whether the use of contrast sonography could enhance the chance of spontaneous clinical pregnancy in women undergoing infertility work-up.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Ethics Committee of Medical Faculty, University of Gothenburg. Date of approval: 17/12/2001 (ref: S532-01)

Primary study design
Interventional

Study design
Randomised controlled trial

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Subfertility (both male and female)

Interventions
Participant recruitment took place at the Reproductive Unit of the Sahlgrenska University Hospital. Randomisation to the two study arms was carried out in blocks of 40, with stratification for age.

Intervention arm: Vaginal contrast sonography for tubal testing on enrolment in the study
Control arm (delayed intervention): Vaginal contrast sonography for tubal testing after 6 months from the day of enrolment in the study

The participants were followed up for 6 months to check for intrauterine pregnancy.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
Clinical pregnancy defined as a sonographically visible foetal sac, detected within 6 months from randomisation.

Key secondary outcome(s)
1. Live birth
2. Miscarriage
3. Ectopic pregnancy

Completion date

31/05/2006

Eligibility

Key inclusion criteria
Couples with at least 1 year of infertility who were scheduled for a consultation, including a HyCoSy.

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Key exclusion criteria
1. Female age >=40 years
2. Severe male infertility (concentration <20 million/ml in the ejaculate or <1 million motile sperms in a swim-up preparation)
3. Severe tubal pathology and suspected anovulation (menstrual period longer than 35 days)

Date of first enrolment
01/12/2001

Date of final enrolment
31/05/2006

Locations

Countries of recruitment
Sweden

Study participating centre
Department of Obstetrics and Gynaecology
Kungälv
Sweden
442 83

Sponsor information

Organisation
University of Gothenburg (Sweden)

ROR
https://ror.org/01tm6cn81

Funder(s)

Funder type
University/education

Funder Name
University of Gothenburg, Sahlgrenska University hospital (Sweden) (ref: LUA/ALF 7094)

Funder Name
Medical Society of Gothenburg (Sweden)

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?
Results article	results	01/05/2009		Yes	No