

# A Multi-Center,Multi-National Clinical Study to Evaluate the Safety and Effectiveness of the ESSURE (Model ESS505) Device to Prevent Pregnancy in Women Who are Seeking Permanent Contraception

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Evaluate the safety and effectiveness of the Essure System for Permanent Birth Control (Model ESS505) in preventing pregnancy

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Other condition
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON40387

### Source

ToetsingOnline

### Brief title

permanent Birth Control System via fallopian tube occlusion

### Condition

- Other condition

### Synonym

birth control, contraception

### Health condition

women ages range 21 to 44 years desiring permanent contraception

## Research involving

Human

## Sponsors and support

**Primary sponsor:** Bayer

**Source(s) of monetary or material Support:** funded by sponsor Bayer Healthcare LCC

## Intervention

**Keyword:** contraception, device, permanent, sterilization

## Outcome measures

### Primary outcome

- Rate of confirmed pregnancies at 1 year among subjects told to rely on ESS505 for contraception.
- Reliance rate: number of subjects told to rely on ESS505 after the Essure confirmation test divided by the number of subjects who had insert placement attempted.

### Secondary outcome

- Occurrence of confirmed pregnancies at 10 years among subjects told to rely on ESS505 for contraception.
- Safety of the ESS505 placement procedure defined as number of subjects who experience an adverse event (AE) assessed as related to the ESS505 placement procedure divided by the number of subjects in who at least 1 ESS505 was introduced into the fallopian tube.
- Safety of subsequent wearing of the insert defined as number of subjects who experience an AE assessed as related to ESS505 wearing divided by the number of subjects in whom the presence of an AE could be assessed.

# Study description

## Background summary

The Essure Permanent Birth Control System originally received Conformité Européenne (CE) Mark approval in February 2001 and United States (US) Food and Drug Administration (FDA) approval in November 2002. Currently, the Essure procedure is a clinically and commercially established hysteroscopic sterilization procedure. The Essure procedure is indicated for women who desire permanent birth control (female sterilization) by bilateral occlusion of the fallopian tubes.

The Essure procedure is conducted by using a transvaginal hysteroscopic approach. One small, flexible Essure insert is placed in the proximal portion of each fallopian tube. Upon release, the insert expands to conform to the fallopian tube, acutely anchoring itself until the insert elicits tissue in-growth. Prior clinical data demonstrate that total fallopian tube (tubal) occlusion occurs within three months of placement, resulting in permanent contraception.

The Sponsor has completed a design modification of the current commercially available Essure ESS305 into investigational device Model ESS505 (manufactured by Bayer HealthCare LLC). The ESS505's primary design modification is the addition of a hydrogel component (plug) attached to the distal end of the insert. The hydrogel plug absorbs intrauterine fluids (i.e., water or saline) soon after placement, causing the hydrogel to swell, conform to the fallopian tube, and acutely occlude the target fallopian tube within one hour.

## Study objective

Evaluate the safety and effectiveness of the Essure System for Permanent Birth Control (Model ESS505) in preventing pregnancy

## Study design

This is a multi-center, multi-national clinical study to evaluate the safety and effectiveness of the ESS505 device to prevent pregnancy in women who are seeking permanent contraception.

Approximately 600 female subjects will be continuously enrolled in the study to receive the ESS505 and will be evaluated periodically for up to 1 year for pregnancy and AEs. Subjects will be followed for safety and efficacy for up to 10 years.

In order to evaluate the safety and effectiveness of ESS505 in preventing pregnancy, the study will have 2 co-primary endpoints and 3 secondary endpoints.

## Intervention

- non-incisional permanent birth control (female sterilization) by occlusion of the fallopian tubes
- Subject will undergo insert placement procedure.
- Insert location will be evaluated and validated via Essure

Confirmation Test performed post successful insert placement. Transvaginal Ultrasound (TVU) is the intended first-line confirmation test. If procedural events suggest the need for a hysterosalpingogram (HSG), as defined in the Essure Confirmation Test protocol, or the TVU confirmation test is equivocal or unsatisfactory, the insert placement and tubal occlusion will be evaluated by HSG. Upon a satisfactory confirmation test, subject will be instructed to rely on Essure for contraception.

## **Study burden and risks**

Advantage: permanent contraception and no additional use of contraception during the first 3 months.

Risks:

- Pain, or cramps, vaginal blood loss, nausea or vomiting, fainting and / or dizziness just after the installation process.
- Possible perforation during the placement procedure fallopian tubes uterus, intestines, bladder, and blood vessels.
- Excessive moisture absorption due to the salt solution, during the placement.
- infections
- Shift of the device,
- Allergic reaction to the device

burdens:

- placement procedure
- Follow-up visits
- Contact via phone or email
- Record of the first day of menstruation monthly

## **Contacts**

### **Public**

Bayer

Bayer HealthCare LLC 1011 McCarthy Boulevard  
CA Milpitas 95035  
US

### **Scientific**

Bayer

Bayer HealthCare LLC 1011 McCarthy Boulevard  
CA Milpitas 95035

## Trial sites

### Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

females 21-44 years

seeking permanent contraception

body weight 40-136 kg

sexually active

willing accept risk of pregnancy

medical physical history indicating bilateral viable & patent fallopian tubes

able to comply with 10 year FU visits

### Exclusion criteria

known proximal tubal occlusion

undergone fallopian tube sterilization

diagnosed endometrial or myometrial pathology

post-menopausal

upper or lower pelvic infection

suspected or confirmed pregnancy

gynecologic malignancy

pregnancy termination less than 6 weeks prior to insert placement

known allergy to all contrast media for use in HSG

unicornuate uterus

## Study design

### Design

Study phase:	3
Study type:	Interventional
Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Prevention

### Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	21-08-2014
Enrollment:	60
Type:	Actual

### Medical products/devices used

Generic name:	Essure 505
Registration:	No

## Ethics review

Approved WMO	
Date:	20-05-2014
Application type:	First submission
Review commission:	METC Isala Klinieken (Zwolle)

## Study registrations

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

No registrations found.

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

No registrations found.

**In other registers**

Register	ID
ClinicalTrials.gov	NCT01948882
CCMO	NL46730.075.13