

# Real-world evaluation of a novel, adhesion device for the prevention of post-operative bleeding

<b>Submission date</b> 20/06/2023	<b>Recruitment status</b> Recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 26/06/2023	<b>Overall study status</b> Ongoing	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 23/06/2023	<b>Condition category</b> Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> Record updated in last year

## Plain English summary of protocol

### Background and study aims

Haemostats are medical devices used by surgeons to stop bleeding during procedures and also to prevent bleeding restarting after the procedure has been completed. Not all haemostats stick to the bleeding site and so are less effective at preventing post-operative bleeding. Many of the haemostats that can adhere to the bleeding site use biological or chemical agents to achieve this. This study aims to evaluate a new haemostat (TenaTac) that avoids the use of biologic or chemical agents.

### Who can participate?

Patients undergoing planned surgery at one of the participating hospitals if their surgeon is part of the evaluation group

### What does the study involve?

During surgery, if the surgeon needs to use a haemostat and chooses to use TenaTac, then on completion of the surgery the surgeon will complete a structured questionnaire about how well the TenaTac performed.

### What are the possible benefits and risks of participating?

The benefits are that the patient will avoid exposure to the biological or chemical agents used in alternative haemostats. The risks are that the TenaTac doesn't perform as well as another haemostat.

### Where is the study run from?

St John's Innovation Centre, Cambridge, UK.

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

January 2020 to December 2025.

### Who is funding the study?

The co-sponsors of the study are Selentus Science (UK) and CuraMedrix (Netherlands).

Who is the main contact?

Mr Paul Hayes MD FRCS, phayes@selentus.com

## Contact information

### Type(s)

Public

### Contact name

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# Additional identifiers

## EudraCT/CTIS number

Nil known

## IRAS number

## ClinicalTrials.gov number

Nil known

## Secondary identifying numbers

Cura PMCF 1

# Study information

## Scientific Title

Real-world, post-market clinical study of the intra-procedural performance of a novel adhesive haemostat across six surgical specialities

## Study objectives

A novel adherent haemostat using only a simple physical modification of its surface would adhere adequately to tissues, and effect haemostasis on a bleeding surgical site to the satisfaction of the operating surgeon.

## Ethics approval required

Ethics approval not required

## Ethics approval(s)

The study is a post-market clinical follow up of a CE-marked medical device being used within its Indication for Use. The choice of which haemostat to treat the patient with was at the discretion of the surgeon and no mandating of treatment occurred. No patient data was shared, only information relating to the general type of surgery and the performance of the device.

## Study design

Observational case series

## Primary study design

Observational

## Secondary study design

Case series

## Study setting(s)

Hospital

## Study type(s)

Treatment

## Participant information sheet

No participant information sheet available

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

Treatment of haemorrhage in surgical patients

**Interventions**

A novel haemostat using only a physical modification of the device surface to affect adhesion was evaluated by multiple surgeons, across 6 surgical specialities. A structured questionnaire relating to the device performance was completed by the surgeon at the end of the procedure.

The application of a haemostat to the bleeding site. No control agent is planned. The adherence of the haemostat to the tissue surface will be graded 1 to 5 by the surgeon, as will the efficacy of haemostasis obtained.

**Intervention Type**

Device

**Pharmaceutical study type(s)**

Not Applicable

**Phase**

Not Applicable

**Drug/device/biological/vaccine name(s)**

TenaTac

**Primary outcome measure**

The effectiveness of haemostasis graded from 1 (unacceptable) to 5 (excellent) by the operating surgeon at the end of the procedure.

**Secondary outcome measures**

1. The effectiveness of adhesion graded from 1 (unacceptable) to 5 (excellent) by the operating surgeon at the end of the procedure.
2. The ease of use of the haemostat graded from 1 (unacceptable) to 5 (excellent) by the operating surgeon at the end of the procedure.
3. Binary response to whether the surgeon would use the product again during surgery

**Overall study start date**

01/10/2021

**Completion date**

31/12/2025

**Eligibility****Key inclusion criteria**

1. Patient undergoing elective surgery
2. Patient greater than 16 years of age
3. Able to give informed consent
4. Willing to complete study procedures and attend for follow-up visit

**Participant type(s)**

Patient

**Age group**

Adult

**Lower age limit**

16 Years

**Upper age limit**

100 Years

**Sex**

Both

**Target number of participants**

300

**Key exclusion criteria**

1. Presence of a documented disorder of coagulation
2. An INR >2.0 within 12h of surgery (if measured)
3. Allergy to porcine products
4. Use of dual anti-platelets within 3 days of surgery
5. Oral anti-coagulant use within 24h of surgery
6. Enrolment in another clinical study that might reasonably interfere with this study's end-points
7. Member of a vulnerable group of adults or life expectancy less than one year.

**Date of first enrolment**

14/01/2020

**Date of final enrolment**

01/11/2025

**Locations****Countries of recruitment**

Belgium

Croatia

Denmark

England

France

Germany

Netherlands

Serbia

Sweden

United Kingdom

**Study participating centre**  
**Thoracic and Vascular Dept**  
University Hospital Ghent  
Ghent  
Belgium  
9000

**Study participating centre**  
**Clinic for Cardiothoracic Surgery**  
Military Medical Academy  
Belgrade  
Serbia  
11050

**Study participating centre**  
**Oder-Spree Krankenhaus GmbH**  
Schützenstrasse 28  
Beeskow  
Germany  
15848

**Study participating centre**  
**Dept of Neurosurgery**  
Antwerp University Hospital (UZA)  
Antwerp  
Belgium  
2650

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**St John's Innovation Centre**  
Cowley Road  
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**Study participating centre**  
**Plastic and Aesthetic Surgery**  
University Hospital  
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## **Sponsor information**

**Organisation**  
Selentus Science

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**Sponsor type**  
Industry

**Website**  
<https://www.selentus.com/>

## **Funder(s)**

**Funder type**  
Industry

**Funder Name**  
Selentus Science

## **Results and Publications**

### **Publication and dissemination plan**

As this is a novel device we plan to evaluate the data after 20%, 50% and 100% of the cohort has been recruited. The results will then be published in a peer-reviewed journal

**Intention to publish date**

01/07/2026

**Individual participant data (IPD) sharing plan**

The datasets generated during and/or analysed during the current study are not expected to be made available due to commercial sensitivity

**IPD sharing plan summary**

Not expected to be made available