



Professional  
Education



# Saffron™ Fixation System



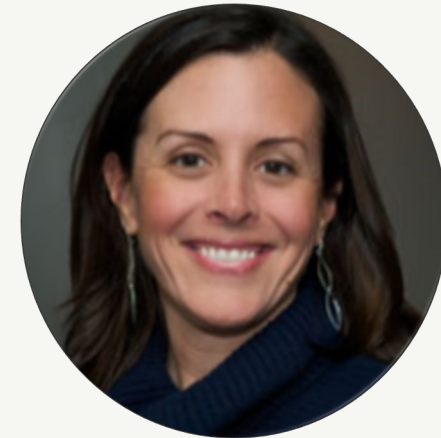
# Saffron™ Fixation System

# Distinguished faculty

**Faculty Name**  
MD, FACOG, FACS

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Account affiliation  
City, ST



# Physician presentation disclaimer

The following materials are presented for general information purposes only. Coloplast is compensating me for this professional education [or training] presentation.

There are certain segments that I may personalize, based upon my own experience in performing this procedure. These will be distinguished as such during the presentation. To the extent they go beyond Coloplast's written materials, these should be recognized as my individual medical opinions and not the opinions or endorsements of the company.

It is obvious with this, and every other surgical procedure, that you use your own independent judgment that you have received sufficient information and training to proficiently perform the procedure. This lecture and demonstration is intended as a supplement to your own education and training and is not a substitute for your own medical judgment.

I have provided substantial time for questions in this presentation and encourage and welcome any questions that you have.



# Objectives

Communicate  
Pelvic Organ Prolapse  
**prevalence and need**

Convey the  
importance of the  
**Saffron™ Fixation  
system and design**

**Analyze the data**  
and competitive  
market



# Agenda

- 01. Pelvic Organ Prolapse prevalence and need
- 02. Importance of design
- 03. Pre-clinical data
- 04. Competitive comparison and data
- 05. Procedural steps
- 06. Procedural video





# 01

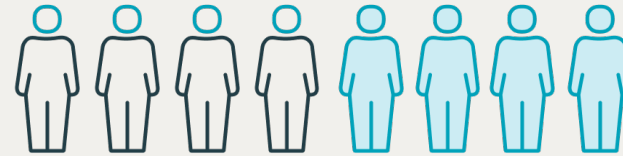
# Pelvic organ prolapse

Prevalence and need

# Pelvic organ prolapse (POP) prevalence

About

**50%** of US women 50-79 years of age  
will experience some form of prolapse<sup>1</sup>



The number of women in the US with symptomatic POP will be almost **5 million** by 2050<sup>2</sup>

<sup>1</sup> Barber, M.D., Maher, C. Epidemiology and outcome assessment of pelvic organ prolapse. *Int Urogynecol J* 24,1783-1790 (2013).

<sup>2</sup> Wu JM. Forecasting the prevalence of pelvic floor disorders in US women: 2010 to 2050. *Obstet Gynecol.* 2009;114(6)1278-83.





## Coloplast's commitment\_

*Improve treatment options*  
for women

*Provide better solutions*  
for surgeons

*Focus to reduce costs*  
to the system

# Pelvic organ prolapse repair options

Transabdominal

Restorelle<sup>®</sup> Y-Mesh



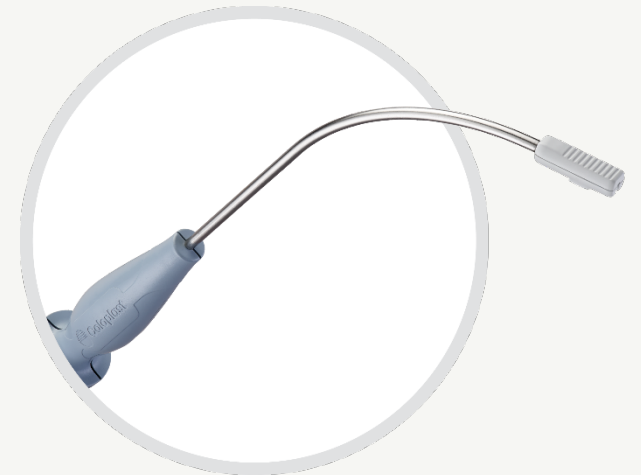
Transvaginal

Axis<sup>™</sup> Allograft  
Suspend<sup>®</sup> Allograft



Fixation

Saffron<sup>™</sup> Fixation



# Innovating in pelvic floor reconstruction

## Saffron™ Fixation System:

- Suture fixation tool
- Implantable anchors
- Used with native tissue or in conjunction with a biologic graft







# 02

## Importance of design

Saffron™ Fixation System



## Saffron™ Fixation System

The Saffron Fixation System is indicated for the attachment of suture to ligaments of the pelvic floor.

Designed for:  
***ease and reliability***  
in prolapse repair

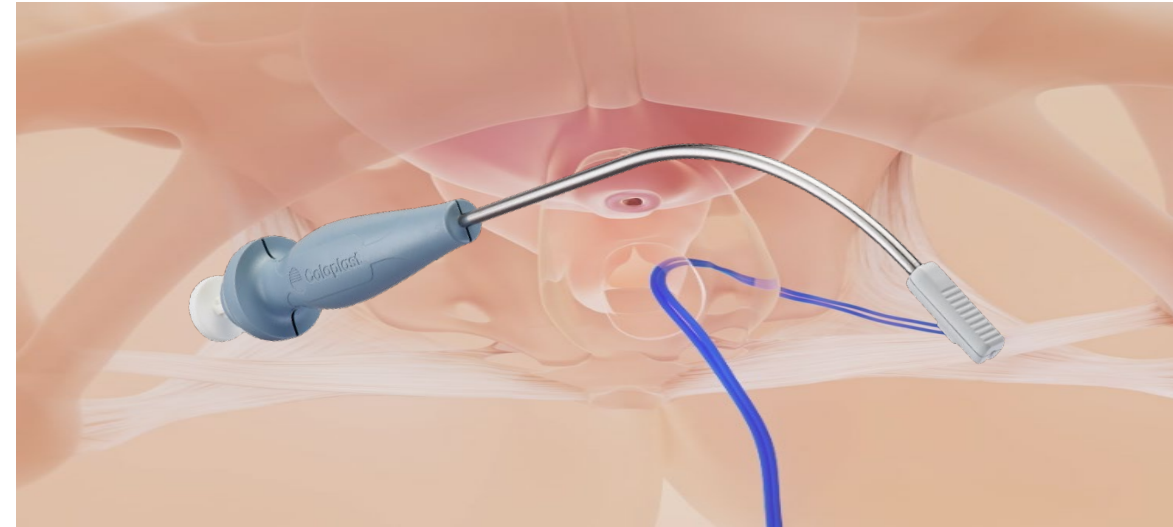


# Saffron™ Fixation System Design

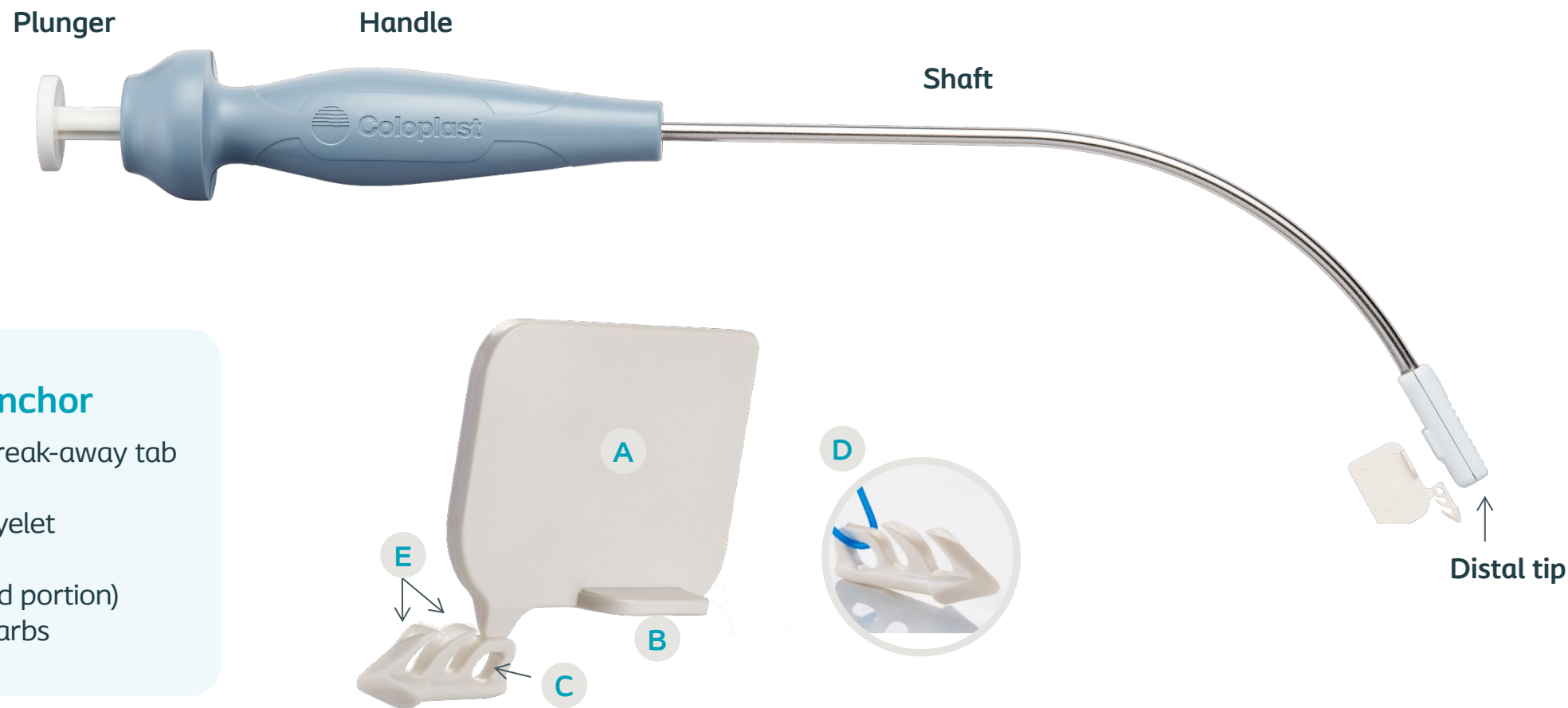
**Intuitive design**, that is easy to hold & deploy with the use of your choice of suture & needle

Benefits of the **Curved Shaft & Small Distal Tip** include:

- Smooth entry into dissection
- Easy navigation in SSL
- Perpendicular placement of SSL
- Precise anchor targeting
- Consistent anchor placement



# Saffron™ tool and anchor design







# 03

## Pre-clinical data

Saffron™ Fixation System

# Saffron™ pre-clinical article<sup>1</sup>

## Study objective

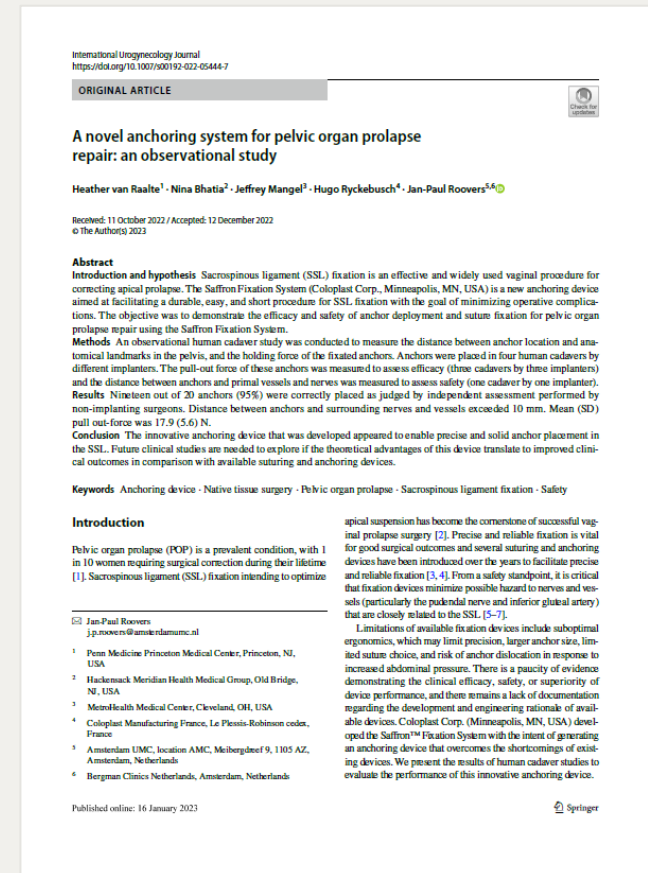
- Demonstrate the efficacy and safety of anchor deployment and suture fixation for pelvic organ prolapse repair using the Saffron™ Fixation system

## Study design

- Pre-clinical, observational human cadaver study

## Designed to measure

- Correct anchor placement identified by palpation, then dissection
- The distance between anchors and vulnerable structures in the pelvic cavity
- The holding force of the fixated anchors



**Note:** Both anterior and posterior approaches were tested for anchor insertion efficacy

# Publication key points

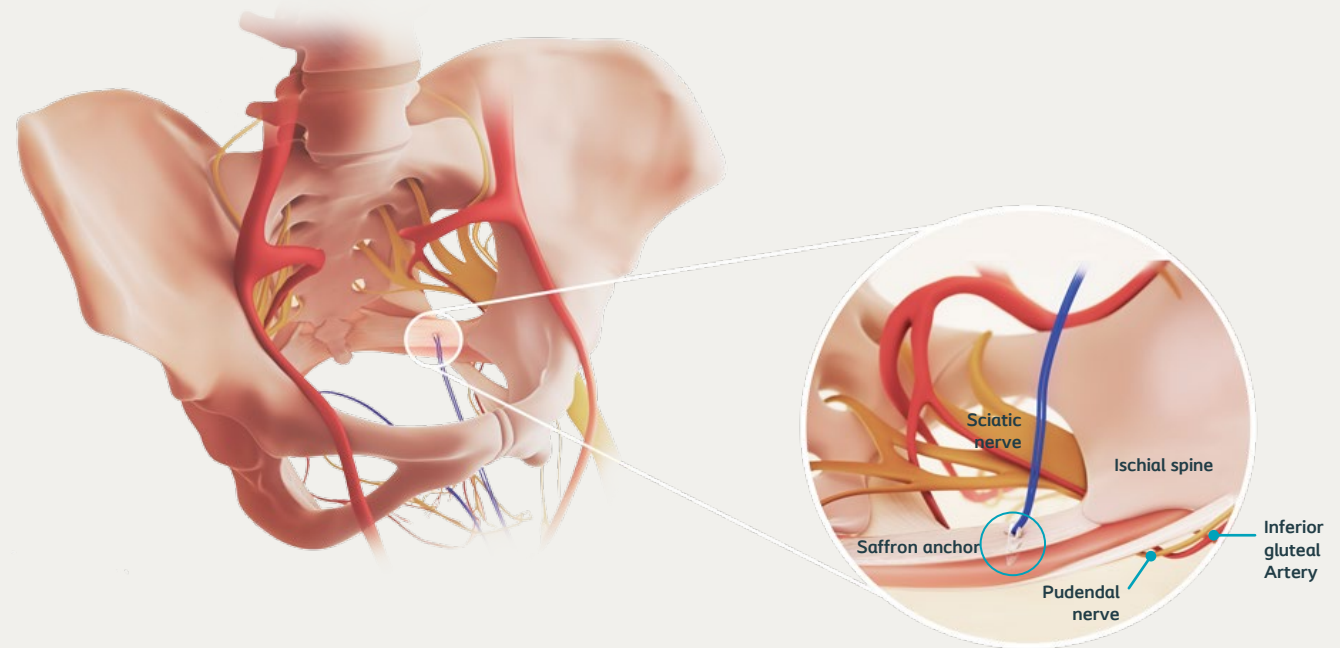
## Efficacy results

- 19 of 20 anchors were correctly placed
- **Mean pull-out force of 18 Saffron anchors tested was 4.02lbs +/- 1.26lbs (17.9N +/- 5.6N)**
  - *The holding force required for pelvic floor repair is 2.25lbs (10N)*

## Safety results<sup>1</sup>

Mean distance between anchors and surrounding nerves and vessels is

**greater than or equal to 10 mm**



# Saffron™ pre-clinical article<sup>1</sup>

## Conclusion

“The **innovative anchoring device** that was developed appeared to enable precise and solid anchor placement in the SSL”





# 04

## Competitive comparison and data

Fixation systems

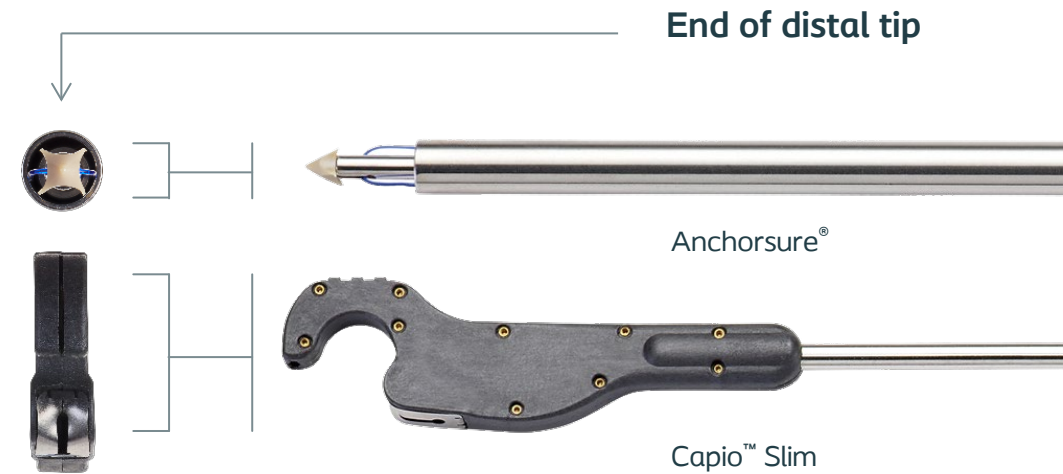
# Saffron™ Fixation System vs. Capio™ Device and Anchorsure® System

## Shaft Angle

- The curvature of the device allows for ease of navigation & perpendicular placement on the SSL

## Distal Tip/Anchor Size

- Saffron has a smaller distal tip than Capio and smaller anchor volume than Anchorsure<sup>1</sup>



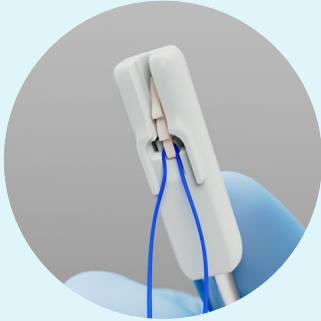
Saffron total implanted anchor volume is

**15%**

**Smaller** than Anchorsure<sup>1</sup>



# Saffron™ Fixation System vs. Capiro™ Device and Anchorsure® System



*Suture/anchor security post-loading*

**The Saffron Anchor won't fall out once loaded**

- The Capiro bullet may dislodge from device prior to deployment
- The Anchorsure anchor can fall off device prior to deployment



*Deployment*

**Saffron offers proven consistent anchor deployment<sup>1</sup>, while Capiro misfires almost 20% of the time**



# Available literature for anchor-based colpopexy repair pain data

Lead author	Title	Journal	Year	Pain rate	Site of pain	Timeframe	Device used
Collin M. McKenzie	Sacrospinous Ligament Fixation Using an Anchor Versus Suture-Capturing Device: A Prospective Cohort Study <sup>1</sup>	FPMRS	2022	0%	N/A	1 year	Anchorsure
David E. Rapp	Comprehensive Evaluation of Anterior Elevate System for the Treatment of Anterior and Apical Pelvic Floor Descent: 2-Year Follow-up <sup>2</sup>	Journal of Urology	2014	2.5%	Buttock/leg	2 weeks	Elevate Anterior/ Apical Prolapse Repair System
Edward J. Stanford	Elevate Anterior/Apical: 12-Month Data Showing Safety and Efficacy in Surgical Treatment of Pelvic Organ Prolapse <sup>3</sup>	FPMRS	2013	3.9%	Buttock	6 weeks	Elevate Anterior/ Apical Prolapse Repair System
E.J. Stanford	One-Year Safety and Efficacy of Elevate <sup>®</sup> Anterior and Apical (EAA) with IntePro <sup>®</sup> Lite™ in the Surgical Treatment of Pelvic Organ Prolapse <sup>4</sup>	Journal of Minimally Invasive Gynecology	2011	3.5%	Buttock	1 year	Elevate Anterior/ Apical Prolapse Repair System

All product names, brands, trademarks and registered trademarks are property of their respective owners.

<sup>1</sup> McKenzie, M. Sacrospinous Ligament Fixation Using an Anchor Versus Suture-Capturing Device: A Prospective Cohort Study. *Female Pelvic Med Reconstr Surg.* 2022 Mar 1;28(3):131-135  
<sup>2</sup> Rapp, D. Comprehensive Evaluation of Anterior Elevate System for the Treatment of Anterior and Apical Pelvic Floor Descent: 2-Year Follow-up. *J Urol.* 2014 Feb;191(2):389-94  
<sup>3</sup> Stanford, E. Elevate Anterior/Apical: 12-Month Data Showing Safety and Efficacy in Surgical Treatment of Pelvic Organ Prolapse. *Female Pelvic Med Reconstr Surg.* 2013 Mar-Apr;19(2):79-83  
<sup>4</sup> Stanford, E. One-Year Safety and Efficacy of Elevate<sup>®</sup> Anterior and Apical (EAA) with IntePro<sup>®</sup> Lite™ in the Surgical Treatment of Pelvic Organ Prolapse. *Abstracts / Journal of Minimally Invasive Gynecology.* 18(2011) S47-S70





# Available literature for suture capture-based colpopexy repair pain data

Lead author	Title	Journal	Year	Pain rate	Site of pain	Timeframe	Device used
Alex Mowat	A descriptive study on the efficacy and complications of the Capio (Boston Scientific) suturing device for sacrospinous ligament fixation <sup>1</sup>	<i>The Australian and New Zealand Journal of Obstetrics and Gynecology</i>	2017	15.9%	Buttock	6 weeks	Capio
Cecile Ferrando	A randomized double-blind placebo-controlled trial on the effect of local analgesia on postoperative gluteal pain in patients undergoing sacrospinous ligament colpopexy <sup>2</sup>	<i>American Journal of Obstetrics and Gynecology</i>	2018	26.9%	Gluteal	6 weeks	Capio
Cecile Unger	Gluteal and Posterior Thigh Pain in the Postoperative Period and the Need for Intervention After Sacrospinous Ligament Colpopexy <sup>3</sup>	<i>FPMRS</i>	2014	15.3%	Gluteal/ posterior thigh	6 weeks	Capio

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<sup>1</sup> Mowat, A. A descriptive study on the efficacy and complications of the Capio (Boston Scientific) suturing device for sacrospinous ligament fixation. *Aust N Z J Obstet Gynaecol*, 2018 Feb;58(1):119-124  
<sup>2</sup> Ferrando, C. A randomized double-blind placebo-controlled trial on the effect of local analgesia on the postoperative gluteal pain in patients undergoing sacrospinous ligament colpopexy. *Am J Obstet Gynecol*. 2018 Jun;218(6):599.e1-599.e8  
<sup>3</sup> Unger, C. Gluteal and Posterior Thigh Pain in the Postoperative Period and the Need for Intervention After Sacrospinous Ligament Colpopexy. *Female Pelvic Med Reconstr Surg*. 2014 Jul-Aug;20(4):208-11



# 05

## Procedural steps

Saffron™ Fixation System



# Saffron™ Fixation System procedural steps

## 4 Steps to successful anchoring:

1

The sacrospinous ligament should be **fully cleared of the overlying tissue**

2

The sacrospinous ligament should be **clearly identified from the surrounding tissue**

3

**Identify the appropriate fixation point on ligament**

- Place your guiding fingertip on the fixation point
- Replace your fingertip with the distal tip of the Saffron Fixation Device

4

**Appropriate force should be used when deploying the anchor to ensure the anchor is sufficiently implanted**



# 06

## Procedural video

Saffron™ Fixation System



# **Saffron™**

Fixation System

## **Surgical Video**

Costas A. Apostolis MD, FACOG, FPMRS  
*Akron, Ohio, U.S.A.*



# Saffron™ Fixation System - Brief Statement

## Indications

The Saffron Fixation System is indicated for the attachment of suture to ligaments of the pelvic floor.

## Contraindications

The Saffron Fixation System is contraindicated in patients with one or more of the following conditions:

- Pregnancy or desire for future pregnancy
- Potential for further growth (e.g., adolescents)
- Documented hypersensitivity or allergic reaction to polysulfone
- Active infection, including untreated urinary tract and/or infection in operative field
- Patients with untreated or serious anticoagulant disorders
- Autoimmune disease affecting connective tissue
- Any condition, including known or suspected pelvic pathology, which could compromise implant or implant placement
- Applications requiring placement of suture into or through bone

## Warnings

It is the responsibility of the physician to advise prospective patients prior to surgery, of the warnings associated with the use of this product and the associated surgical risks.

- The Saffron Fixation System should only be used by physicians experienced in the surgical procedures and techniques involving transvaginal placement of permanent anchors.
- The risks and benefits of using the Saffron Fixation System should be considered in patients.

- As with all surgical procedures, patients with certain underlying conditions can be more susceptible to postoperative bleeding, impaired blood supply, compromised/delayed healing, or other complications and adverse events.
- Patient counseling should include a discussion that Saffron Anchors are permanent.
- Future pregnancy could negate the benefits of this surgical procedure.
- Permanent anchor complications may result in one or more revision surgeries which may lead to removal of one or more Saffron Anchors. Complete removal of the Saffron Anchor(s) may not always be possible, and removal may not fully correct these complications. There may be unresolved pain with or without anchor explant.
- Patients should be instructed to report bleeding, pain, abnormal vaginal discharge, or signs of infection at any time.

## Precautions

It is the responsibility of the physician to advise prospective patients prior to surgery, of the precautions associated with the use of this product and the associated surgical risks.

- Previous pelvic floor reconstruction may make the placement of Saffron Anchor(s) more difficult.

## Potential Complications

Adverse events are known to occur with transvaginal pelvic organ prolapse repair. Adverse events following pelvic organ prolapse surgery may be localized, systemic,

de novo, worsening, acute, chronic, or permanent. Adverse events may include but are not limited to: Anchor migration, exposure, extrusion into the vagina or other structures or organs, bladder storage symptoms (e.g., increased daytime frequency, urgency, nocturia, overactive bladder, urinary incontinence), bleeding/hemorrhage/hematoma, delayed/impaired/abnormal wound healing, dyspareunia, fistula formation, infection, inflammation, irritation of surrounding tissue and/or foreign body reaction, pain, perforation or injury to adjacent muscles, nerves, vessels, structures or organs (e.g., bone, bladder, urethra, ureters, bowel, rectum, vagina), scarring, sexual dysfunction, and voiding symptoms (e.g., dysuria, urinary retention, incomplete emptying, bladder outlet obstruction, straining, position-dependent voiding, slow stream).

The information provided is not comprehensive with regard to product risks. For a comprehensive listing of indications, contraindications, warnings, precautions, and adverse events refer to the product's Instructions for Use. Alternatively, you may contact a Coloplast representative at 1-800-258-3476 and/or visit the company website at [www.coloplast.com](http://www.coloplast.com).

**Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician.

Minneapolis, MN

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