

**10th INTERNATIONAL TRAINING COURSE.  
MINIMALLY INVASIVE TRANSANAL SURGERY  
(TEO and TaTME).  
THE APPLICATION OF INDOCYANINE GREEN**

**11-12-13 December 2019**



**Colorectal Unit**

**Parc Tauli University Hospital**

**Sabadell (Barcelona) Spain**

## Introduction

In the past, a variety of techniques were available for the local treatment of rectal tumors, but all of them were associated with high post-surgical morbidity. In order to remedy this situation more radical techniques were required, such as lower anterior resection or abdominoperineal resection. Transanal Endoscopic Microsurgery was described in the 1980s and rapidly attracted interest. This new minimally invasive technique allows optimal dissection, cutting, coagulation and suturing under vision and offers several other advantages as well.

The KARL STORZ TEO-set system comprises all the instruments required for this surgical procedure. As a reference centre for TEO, the Parc Taulí University Hospital has acquired wide experience with the technique over more than 20 years. For several years now, our TEO/TEM team has been sharing the knowledge acquired through a series of carefully designed courses and more than 40 papers published. One hundred and fifty surgeons from some 65 hospitals worldwide have trained with us. To our knowledge, 55 centers are currently implementing this technique.

In recent years, an adaptation of TEO using natural orifices (known as NOTES: natural transluminal orifice endoscopic surgery) has been applied to access the peritoneal cavity and perform intra-abdominal operations. Our extensive experience in transanal surgery using TEO, with near 800 patients treated so far either for rectal tumors or in atypical situations, has encouraged us to use this approach in transanal surgery for TME. Benefits of this technique include the maintenance of the integrity of the abdominal wall and the reduction in the rate of trauma associated with conventional surgery. At our center, we have designed a new technical variant of hybrid NOTES: transanal TME (TaTME) using TEO equipment. Resection of the specimen and anastomosis are performed intracorporeally using TEO. The anastomosis can be created at the required distance from the anal verge, and the use of TEO allows subsequent review. On this course we show the details of the technique and the results of our experience.

Recently, the application of indocyanine green in laparoscopic colorectal surgery has made it possible to define the correct vascularization of the area of anastomosis. On the course we describe our experimental and clinical experience with this technique and analyse the vascularization of the tissue using the SERGREEN computer program.

All the speakers are members of staff at our hospital who are actively involved in the TEO procedures carried out by our service. Throughout the course, we stress the importance of this multidisciplinary approach and aim to show the participants how this model can be applied at their centers.

By limiting the number of places available on the course, we are able to foster a close interaction between trainees and speakers and maintain a fluid exchange of ideas on the topics under discussion.

The course comprises four main elements: round table presentations and interactive discussion of the different topics, practical experience using simulated models, live surgery, and a final evaluation.

We look forward to welcoming you to our eighth international training course on TEO and TaTME: TEO for transanal TME, and application of indocyanine green in one of Spain's most beautiful regions!

Yours sincerely,

Xavier Serra-Aracil

## Objectives

To provide participants with a thorough theoretical and practical grounding in Transanal Endoscopic Operations (TEO).

To demonstrate the TEO instrumentation and its handling

To present a variety of techniques for cutting tissue and tricks on how to make a proper suture during practical training sessions

To show the procedures in live TEO surgery

To present specific details of the technique TaTME-TEO. With intracorporeal resection and anastomosis in videos and live surgery

To describe the applications of indocyanine green in laparoscopic colorectal surgery, focusing on our experience in experimental animal models and in the clinical setting

To discuss the surgical, functional and oncological results of TEO and TaTME-TEO

To share our experience with the technique and to discuss our results already published in specialist journals; to describe the different steps in the procedures and to provide guidance in special cases. A series of interactive questions enhances participation and monitors learning after each lecture.



# PROGRAM

## Wednesday 11 December 2019

08:15	Meeting in the Foyer at the Parc Tauli Hospital .....	Dr R Gracia
08:30	Welcome reception and Introduction.....	Dr C Carod, Dr S Navarro and Dr X Serra-Aracil
09:00	<b>I Round Table:</b> <b>Pre-Surgical diagnosis for rectal tumor patients suitable for TEO or Hybrid-NOTES procedures.</b>	Moderator: Dr X Serra-Aracil
09:05	Endoscopic diagnosis of rectal tumors .....	Dr E Martinez
09:25	Evaluation of tumor staging prior to surgery by 2D and 3D end rectal ultrasound .....	Dr. S Serra
09:45	Evaluation of the tumor staging prior to surgery: Pelvic MRI and abdominal-pelvic CT .....	Dr A Gonzalez
10:05	Rectal endoscopic ultrasound: Biopsy and rectal -lymphadenopathies .....	Dr F Junquera
10:20	Discussion	
10:35	Coffee break	
11:00	<b>II Round Table:</b> <b>Indications, instrumentation and the TEO technique</b>	Moderator: Dr L Mora
11:10	Indications and limitations for TEO. Atypical indications .....	Dr S Serra
11:30	Indications and limitations for TaTME-TEO (TEO for Transanal Total Mesorectal Excision) .....	Dr A Pallisera
11:50	TEO surgical technique: instrumentation, positioning of the patient and strategic steps .....	Dr Serra-Aracil during the procedure
12:15	TaTME-TEO (TEO for Transanal Total Mesorectal Excision) surgical technique.....	Dr L Mora
12:40	Indications for the use of indocyanine green in colorectal surgery. The SERGREEN program .....	Dr A Garcia
13:00	Discussion	
13:30	Lunch at the workshop facilities	
15:00	<b>HANDS-ON SESSION</b>	Dr X Serra-Aracil and Dr L Mora, Dr S Serra, Dr A Pallisera, Dr A Garcia, Dr R Gracia
	Practical presentation of the instrumentation needed for TEO in the OR: instructions on assembling and handling .....	Mrs Laura Gelabert, Mrs Marta Arizu
15:30	Practical training session on assembling and handling the instrumentation. Practical training session on dissection, cutting and suturing in an artificial model (in groups)	
15:30	In parallel, a discussion of technical aspects of TEO and TaTME-TEO in video clips	
16:30	Change of groups: practical training session and discussion of technical aspects of TEO in video clips	
17:30	End	
20.30	Course dinner	

## Thursday 12 December 2019

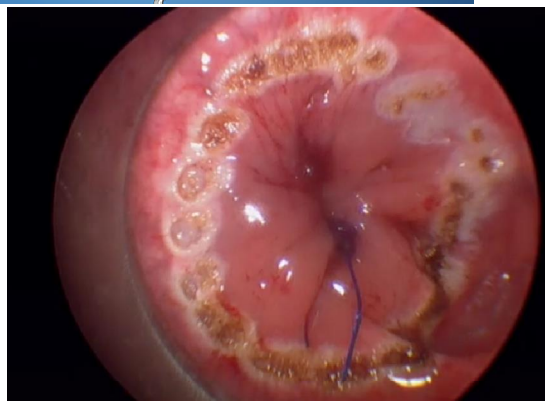
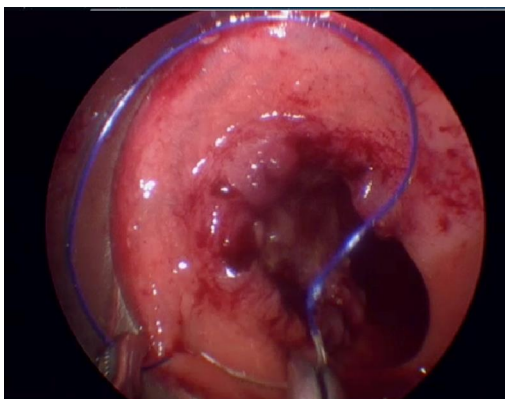
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09:00	Presentation of the TEO surgical case .....	Dr R Gracia
09:10	TEO surgical session: Surgical team .....	Dr X Serra-Aracil , Dr S Serra
	Broadcasting of live surgeries.....	Dr L Mora, Dr A Pallisera
10:30	Coffee break	
11.30	Presentation of the TEO surgical case .....	Dr R Gracia
	Simultaneous relay	
11:40	<b>III Round Table</b> <b>Anesthesia, Post-surgical complications, Sphincter Alteration, and Pathologic Anatomy.</b>	Moderator: Dr S Serra
11:45	Anesthetics in TEO and Hybrid-NOTES .....	Dr R Martínez
11:50	Post-surgical complications in TEO and TaTME-TEO .....	Dr A Pallisera
12:10	Risk of sphincter alterations after TEO .....	Dr L Mora
12.50	Pathological anatomy: Preparation of the tissue, setting of resection margins, wall-excision of adenomas and carcinomas with TEO and TaTME-TEO resections. T1 Rectal adenocarcinoma, a new way to measure submucosal tumoral invasion	Dr A Casalots
13:10	Roundtable discussion	
13:30	Lunch at the workshop facilities	
14:30	<b>IV Round Table:</b> <b>Control and follow-up after TEO and Hybrid-NOTES procedures</b>	Moderator: Dr L Mora
14.30	Results from the follow-up cases after TEO in rectal adenomas. ....	Dr X Serra-Aracil
14.55	Results from the follow-up cases after TEO in T1 rectal adenocarcinomas	Dr A Serracant
15.15	T2 as indication for TEO procedures? Preliminary results of the TEO vs ETM clinical trial .....	Dr J Badia
15.35	Proyectos y publicaciones tras 15 años de experiencia en TEO, TaTME.	Dr L Mora
15.55	Roundtable discussion	
16:15	<b>HANDS-ON SESSION</b>	Dr X Serra-Aracil and Dr L Mora, Dr S Serra, DR A Pallisera , Dr A Garcia, Dr R Gracia Mrs Laura Gelabert, Mrs Marta Arizu
16:15	Creation of a purse string using an artificial model. The area of the artificial rectum to be sectioned is dotted with the electric scalpel at a distance of 1 cm from the purse-string; dissection of the purse string area (in groups)	
16:15	In parallel, a discussion of technical aspects of TEO in video clips	
17:00	Change of groups; practical training session and discussion of technical aspects of TEO in video clips	
17.45	End of Hands-on session	

**Friday 13 December 2019**

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09:00	<b>V Round Table: Clinical and experimental studies TaTME and ICG</b>	Moderator: Dr X Serra-Aracil
09:05	Preliminary results from the follow-up cases after TaTME-TEO vs laparoscopic Low anterior resection ETM clinical trial	Dr A Zarate
09:20	Experimental study of the quantification of indocyanine green using the SERGREEN program in colorectal anastomoses .....	Dr A Garcia
09:40	Presentation of the second surgical case.....	Dr R Gracia
09:50	Interactive evaluation of the course	
10:00	Coffee break	
10:00	Surgical session: TaTME-TEO	
	Laparoscopic surgical team .....	Dr L Mora, Dr A Pallisera, Dr A Garcia
	Transanal TEO team.....	Dr X Serra-Aracil,
	Broadcasting of live surgeries .....	Dr S Serra, Dr R Gracia,
14:00	End of the Course .....	Dr X Serra



## **LECTURE STAFF**

Dr Xavier Serra-Aracil, Department of Surgery, Coloproctology Unit

Dr Laura Mora, Department of Surgery, Coloproctology Unit

Dr Anna Pallisera, Department of Surgery, Coloproctology Unit

Dr Sheila Serra, Department of Surgery, Coloproctology Unit

Dr Albert Garcia Department of Surgery, Coloproctology Unit

Dr Alba Zarate, Department of Surgery, Coloproctology Unit

Dr R Gracia , Department of Surgery, Colorectal Unit

Dr Raquel Gracia , resident, Colorectal Unit

Dr Jesús Badia resident, Colorectal Unit

Dr Amalia Gonzalez, Radio-Diagnostic Unit, UDIAT

Dr Eva Martinez, Digestive Pathology Unit

Dr Alex Casalots, Department of Pathology

Dr Fèlix Junquera, Digestive Pathology Unit

Dr Raquel Martínez, Department of Anesthetics

Dr Gemma Pujol, Department of Anesthetics

Mrs Marta Arizu, Surgical nurse

Mrs Laura Gelabert, Surgical nurse

## **COURSE COMMITTEE**

Coloproctology Unit, Department for General and Digestive Surgery

Course Directors: Dr Xavier Serra-Aracil, Dr Laura Mora-Lopez

Department for General and Digestive Surgery

Head of Department: Dr Salvador Navarro Soto

## **CME CREDITS**

The course lasts 23.5 teaching hours, which may count towards CME credits

## Registration

Online: [www.teotemtauli.com](http://www.teotemtauli.com)

The secretary of the course will confirm the registration by e-mail

Maria José López Meseguer  
**mjlopez@tauli.cat**  
Servicio de Cirugia  
Hospital Universitari Parc Taulí

## Payment

Ester Freixa  
**efreixa@tauli.cat**  
Fundació Parc Taulí

The participant's fee for the three-day intensive training course is 1,000 € + IVA

This includes the course dinner on the first evening

Please transfer the sum of 1,000 € + IVA with the code word

“9th International Training Course on TEO” to the following bank account:

Account: 0081 5154 29 0001813582

SWIFT BSABESBB

**Places are limited:** maximum 20

First come-first serve



## **ACCOMMODATION**

### **HOTEL CATALONIA SABADELL**

Plaça de Catalunya, 10  
08206 Sabadell (Barcelona)  
Tel: 34 93 727 92 00

### **HOTEL URPI**

Avenida del 11 de Septiembre, 40,  
08208 Sabadell, Barcelona,  
Tel: **34** 937 24 40 00

### **CATALONIA GRAN HOTEL VERDI**

Avinguda de Francesc Macià, 62,  
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