7th INTERNATIONAL TRAINING COURSE.
MINIMALLY INVASIVE TRANSANAL SURGERY
(TEO and HYBRID-NOTES). THE APPLICATION
OF INDOCYANINE GREEN

30 November, 1 and 2 December 2016

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 rectal amputation. Transanal Endoscopic Microsurgery was invented 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 Tauli University Hospital has acquired wide experience with the technique over more than 15 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 20 papers published. One hundred and fifty surgeons from some 50 hospitals worldwide have trained with us. To our knowledge, 44 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 more than 650 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 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.

We look forward to welcoming you to our seventh international training course on TEO and Hybrid-NOTES: 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 Hybrid-NOTES: TEO for Transanal Total Mesorectal Excision. 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 Hybrid-NOTES: TEO for Transanal TME.

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 30 November 2016**

08:15  Meeting in the Foyer at the Parc Tauli Hospital  Dr. JC Garcia and Dr N. Montes

08:15  Welcome reception and Introduction  Dr C Carod, Dr S Navarro and Dr X Serra

09:00  **I Round Table:**  
**Pre-Surgical Diagnosis for rectal tumor patients suitable for TEO or Hybrid-NOTES procedures.**  
Moderator: Dr X Serra

09:05  Endoscopic diagnosis of rectal tumors  Dr E Martinez

09:25  Evaluation of tumor staging prior to surgery  
by 3D endorectal-ultrasound  Dr A Galvez

09:45  Evaluation of the tumor staging prior to surgery:  
Pelvic MRI and abdominal-pelvic CT  Dr E Ballesteros

10:05  Rectal endoscopic ultrasound:  
Biopsy and rectal lymphadenopathies  Dr F Junquera

10:20  Discussion

10:35  Break. Coffee

11:00  **II Round Table:**  
**Indications, instrumentation and the TEO technique:**  
Moderator: Dr L Mora

11:10  Indications and limitations for TEO. Atypical indications  Dr S. Serra

11:30  Indications and limitations for Hybrid-NOTES:  
TEO for Transanal Total Mesorectal Excision  Dr A Pallisera

11:50  TEO surgical technique: instrumentation, positioning of the patient  
and strategic steps during the procedure  Dr X Serra

12:15  Hybrid-NOTES Technique: TEO for Transanal TME  Dr L Mora

12:40  Indications for the use of indocyanine green in colorectal surgery.  
The SEGREEN program  Dr X Serra
13:00 Discussion

13:30 Lunch at the workshop facilities
HANDS-ON SESSION  Dr X Serra and Dr L Mora, Dr S Serra, Dr A Pallisera, Dr A Galvez

15:00  Practical presentation of the instrumentation needed for TEO in the OR:
       instructions on assembling and handling          Mrs Laura Gelabert, Mrs Eva Bassa

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 in video clips

16:45  Change of groups: practical training session and discussion of technical aspects of TEO in
       video clips

17:30  End

21:00  Course dinner
Thursday 1 December 2016

09:00 Presentation of the TEO surgical case  Dr JC Garcia

09:10 TEO surgical session:

  Surgical team  Dr X Serra and Dr A Galvez
  Broadcasting of live surgeries  Dr I Ayguavives Dr S Serra Dr A Pallisera Dr L Mora

11:00 Break. Coffee

11:30 III Round Table
  Anesthesia, Post-surgical complications, Sphincter Alteration, and Pathologic Anatomy.
  Moderator: Dr X Serra

11:35 Anesthetics in TEO and Hybrid-NOTES  Dr R Martínez

11:55 Post-surgical complications in TEO and Hybrid-NOTES  Dr A Pallisera

12:15 Risk of sphincter alterations after TEO and Hybrid-NOTES  Dr L Mora

12:35 Pathological anatomy: Preparation of the tissue, setting of resection margins, wall-excision of adenomas and carcinomas with TEO. NOTES-resections  Dr A Casalots

13:00 Roundtable discussion

13:30 Lunch at the workshop facilities

14:30 IV Round Table: Control and follow-up after TEO and Hybrid-NOTES procedures
  Moderator: Dr L Mora

14:30 Results from the follow-up cases after TEO in rectal adenomas. High frequency of adenocarcinoma in large rectal adenomas.  Dr S Serra

14:45 Results from the follow-up cases after TEO in T1 rectal adenocarcinomas. Good and bad prognosis in T1 adenocarcinomas.  Dr A Casalots

15:00 T2 as indication for TEO procedures? Preliminary results from the clinical trial CRT TEO vs ETM  Dr C Pericay

15:15 Results from the follow-up cases after Hybrid-NOTES: TEO for Transanal Total Mesorectal Excision.  Dr L Mora

15:30 Experimental study of the quantification of indocyanine green
  Using the SERGREEN program in colorectal anastomoses  Dr A Garcia

15:40 Roundtable discussion
16:00 **HANDS-ON SESSION**  
Dr X Serra and Dr L Mora Dr S Serra, Dr A Pallisera, Dr A Galvez

16:00  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)

16:30  In parallel, a discussion of technical aspects of TEO in video clips

16:45  Change of groups; practical training session and discussion of technical aspects of TEO in video clips

18:00 End of Hands-on session
Friday 2 December 2016

09:00  Presentation of the second surgical case       Dr N Montes

09:15  Surgical session: Hybrid-NOTES: TEO for Transanal Total Mesorectal Excision

   Laparoscopic surgical team       Dr L Mora, Dr A Galvez

   Transanal TEO team:             Dr X Serra, Dr A Pallisera

   Broadcasting of live surgeries  Dr I Ayguavives, Dr S Serra

11:00  Break. Coffee

13:00  Interactive evaluation of the course       Dr S Navarro  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 Ana Galvez, Department of Surgery, Coloproctology Unit
Dr Isidro Ayguavives, Department of Surgery, Coloproctology Unit
Dr Juan Carlos Garcia, resident, Colorectal Unit
Dr Noemi Montes, resident, Colorectal Unit
Dr Eva Ballesteros, Radio-Diagnostic Unit, UDIAT
Dr Eva Martinez, Digestive Pathology Unit
Dr Alex Casalots, Department of Pathology
Dr Fèlix Junquera, Digestive Pathology Unit
Dr Carles Pericay, Department of Oncology
Dr Raquel Martinez, Department of Anesthetics
Dr Gemma Pujol, Department of Anesthetics
Mrs Eva Bassa, Surgical nurse
Mrs Pilar Baró, Surgical nurse
Mrs Laura Gelabert, Surgical nurse
Mrs Anna Vidal, 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
COURSE SECRETARIAT

M. José López

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COURSE FEE

The participant 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
“7th International Training Course on TEO” to the following bank account:
Fundació Parc Taulí
Account: 0081 5154 29 0001813582
SWIFT BSABESBB
COURSE REGISTRATION

1. Online: www.teotemtauli.com
   The secretary of the course will confirm the registration by e-mail

Places are limited: maximum 20
First come-first serve

CME CREDITS

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

ACCOMMODATION

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