

# INTERNATIONAL WORKSHOP

## **TELESCOPE (VITOM®) NEUROSURGERY** a Practical Hands-On Instructional Course

with

Cadaver Specimens, Animal Models  
and Live Demonstration Surgery Day

### **10-12<sup>th</sup> November, 2010**

Laboratorio de Práctica Quirúrgica  
Hospital de la Ribera  
Alzira (Valencia)  
Spain

10<sup>th</sup> Anniversary Course  
(2000-2010)

### **Special Guests**

Dr. A. Mamelak  
Dr. D. Rosenthal

Organization  
Dr. PH Young; Dr J. Piquer  
&



# GENERAL INFORMATION

## Hands-On Topics

### Technique of VITOM® Telescope

### Teaching of VITOM® Telescope Technique by Brain Anatomical Dissections

### VITOM® Telescope in Spinal, Cranial and Microsurgery

- VITOM® Telescope high-speed motors experience
- VITOM® Telescope micro dissection between Aorta and Cava (Live anesthetized rats)

### VITOM® Telescope in Microneurosurgery

The porcine model represents an ideal tool for VITOM® telescope training before applying this operative procedure in humans, both for brain surgery and anterior approaches to the spine.

- VITOM® Telescope Microdissectomy
- VITOM® Telescope Mini-Open Anterior Approaches to Spine
- VITOM® Telescope Mini-Craniotomy Guide by Neuronavigation

The VITOM® telescope is an exciting new platform for the performance of routine microneurosurgical procedures and could be an alternative to the operative microscope. The technique is a telescope-based exoscope that produces very high-quality video images with a wide field of view and a mean object distance of 250 mm. This large focal distance permits the passage of instruments that is more difficult with traditional neuroendoscopes, but is much more compact and easier to manipulate than an operative microscope. (Dr. A. Mamelak)

## Objectives:

**This intensive Hands-On workshop is designed to provide ample opportunity for:**

- Hands-On sessions for teaching the VITOM® telescope technique on specially prepared cadavers and live animals – 2 surgeons per station
- Didactic lectures and discussion
- Unique 3-D video demonstrations of VITOM® telescope applications in neurosurgery

## Workshop Location

**This workshop will be conducted at the Practical Laboratory at**

Hospital La Ribera, located at Alzira (Valencia-Spain).

## Tuition fee Includes

- Session in laboratory with live rats and pigs
- Cadaver dissection and surgical demo in lab
- Course materials and syllabus
- Lunch and refreshment breaks
- Special event dinners
- Transportation between the group hotel and the hospital
- Benefit Dinner for East Africa Neurosurgery Development

## Workshop Tuition Fee and Registration

Tuition fee three day course 1500 Euro  
Max. participants 24

Tuition fee “Live Demonstration Day Course” 350 Euro  
Max. participants 50

Both options include Benefit Dinner

### **Cancellation Policy**

Cancellations received by 1 November 2010, will be refunded in full.

**No refunds will be issued for cancellations received after this date**

### **Accommodation, meals and transportation**

For the convenience of our attendants, a block of rooms has been set aside, with discounted room rates, at:

NH Las Artes

Avenida Instituto Obrero, 28

46013 Valencia (Spain)

Tel. +34 96 3351310

Fax: +34 96 3748622

E-Mail: [nhlasartes@nh-hotels.com](mailto:nhlasartes@nh-hotels.com)

Reference: GRUPO CURSO LA RIBERA

Make reservation directly with the agency.

## DAY 1

7:45-8:00 h

### Welcome

8:00-9:00 h

### Technique of the VITOM® Telescope

Lectures:

#### **Basic principles of the VITOM® System**

*Rosmarie Reiniger and Guillermo Gomez, KARL STORZ*

#### **A High-Defintion VITOM® Telescope System for Neurosurgery and other Microsurgical disciplines:**

*Dr. A. Mamelak*

From the Microscope-Endoscope to Exoscope

- History and Principles
- Experimental Applications
- Clinical Experience

9:00-13:30 h

### Teaching of VITOM® Telescope Technique by Brain Anatomical Dissections

Lectures and Demo:

#### **Review anatomy of the brain**

*Prof. P. H. Young*

Gyrus and Sulcus: frontal, temporal, parietal, occipital and insula

Technique of fiber dissection of the brain, dissection of major tracts of the brain

Hands-On by participants:

#### **VITOM® Telescope anatomical brain dissection**

Gyrus and Sulcus

- **VITOM® Telescope** Dissection of Major Brain Gyrus ,  
Silvian and Rolando fissure

Major Tracts

- VITOM® Telescope dissection of major fibers of the brain:  
Cingulumn, Corpus Callosum, Superior Longitudinal &  
Uncinate fascículus

13:30-14:30 h

**Lunch**

14:30-15:30 h

**VITOM® Telescope in Spinal, Cranial and Microsurgery**

Lectures:

**Fundamentals of Spinal Microsurgery Practice**

*Prof. P. H. Young*

**Spinal Microsurgery:** Recommendations using evidence based medical criteria

*Dr. E. Ferrer*

15:30-19:30 h

Hands-on by participants:

**VITOM® Telescope Teaching spinal & cranial surgery**

High-speed motors experience

This practical part of the course consists of an introduction to high-speed motors, exposure to a wide variety of attachments and exploration of many dissecting tool shapes and their dissecting characteristics by the VITOM® telescope technique.

Hands-on by participants:

**VITOM® Telescope Teaching of Microsurgery**

(Live anesthetized rats)

VITOM® Telescope micro dissection between Aorta and Cava (Live anesthetized rats). Microsurgery is mandatory for the optimal education of modern neurosurgeons. The dissection of aorta from the inferior cava vein models is an excellent model to simulate micro neuro dissection by VITOM® telescope live surgery.

## DAY 2

8:00-9:30 h

### **VITOM® Telescope in Microneurosurgery**

Lectures:

#### **Keyhole in Neurosurgery. State of Art**

*Dr. B. Oliver*

#### **VITOM® Telescope Microdiscectomy**

*Dr. J. Piquer*

#### **VITOM® Telescope Mini-Open Anterior Approaches to the Spine**

*Dr. D. Rosenthal*

9:30-11:00 h

Hands-On Demo

### **VITOM® Telescope Mini-craniotomy Guide by Neuronavigation in a Cadaver Model**

*Dr. J. L. Llacer, Dr. P. Riesgo, Dr. J. Piquer*

11:00-11:30 h

### **Coffee Break**

11:30-17:00 h

Hands-on by participants and faculty:

#### **VITOM® Telescope Microneurosurgery** in live anesthetized pigs

The porcine model represents an ideal tool for VITOM® telescope training before applying this operative procedure in humans, both for brain surgery and anterior approaches to the spine.

- **Brain:** VITOM® Telescope Mini-open Craniotomy, Sulcotomy and micro dissection of the brain
- **Spine:** VITOM® Telescope Mini-open thoracolumbar approach to the spine. The intervertebral disc between vertebrae T8 and T9 must be resected from live, anesthetized, adolescent pigs. The chest is opened via thoracotomy of the eighth rib, and the disc and vertebral body must be excised.

Lunch and Refreshments will be served outside lab area during this Practice.

## DAY 3

### Live Demonstration Day Course in Operative Endoscope and VITOM® Telescope Neurosurgery.

8:00-8:30 h

#### Special Conference

Mobile Neurosurgery in Developing Countries. A NED Foundation Project

*Dr. M. Qureshi*

8:30-17:00 h

#### Live Demonstration Surgery by

*Dr. E. Ferrer, Dr. A. Mamelak, Dr. B. Oliver, Dr. D. Rosenthal*

Professors will discuss the cases between and after operations. Fifty neurosurgeons and / or neurosurgery residents can be accommodated for this day course. There will be 4-6 operations per day during the course, in two OR's :

- Endoscopic Endonasal Surgery fo Pituitary Fossa/Cranial Base Tumor
- Endoscopic Fenestration of Arachnoids Cysts
- VITOM® Telescope Anterior Approach to the Spine
- VITOM® Telescope Microdiscectomy
- VITOM® Telescope Intracranial Tumor Resection

This day is a presentation of minimally invasive endoscopic and VITOM® telescopic techniques in pituitary tumors, brain and spinal procedures. Experts on the subject will present the technical aspects of the operations along with risks, benefits and outcomes of both techniques.

**The live cases are the aim of the final part of the course and will remain so, just because techniques and skill are indivisible in our daily practice.**

The selection of the cases is always done in a way that demonstrates either the "state of the art", or a specific indication for a given technique, or the use of a new technology. However, one should never forget that a "surgical" act has a manual component which needs years of practice to be ethically proposed to a patient.



**Interactivity between panellists and attendees is another major goal of the course.** Discussions will be promoted as much as possible in order to give equal chance to debate during live cases.

Lunch and Refreshments will be served outside auditorium area during this Practice.

20:00 h

**Benefit Dinner for “East Africa Neurosurgery Development”.**

## ORGANIZATION

**Prof. P. H Young,**

Neurosurgeon  
Department of Neurosurgery  
Saint Louis University School of Medicine  
Microsurgery & Brain Research Institute  
St Louis, Missouri, USA

**Dr. J. Piquer,**

Neurosurgeon  
Unidad de Neurocirugía  
Hospital de la Ribera  
Alzira, Valencia, Spain

### Faculty

**Dr. E. Ferrer**

Department of Neurosurgery  
Hospital Clinic  
Barcelona, Spain

**Dr. J. L. Llácer**

Department of Neurosurgery  
Hospital de la Ribera  
Alzira, Valencia, Spain

**Dr. A. Mamelak**

Department of Neurosurgery  
Cedars-Sinai Medical Center  
Los Angeles, California, USA

**Dr. B. Oliver**

Department of Neurosurgery  
Hospital Mútua de Terrassa  
Barcelona, Spain

**Dr. D. Rosenthal**

Spine Surgery Service  
Regional Hospital, Homburg, Germany

**Dr. J. Piquer**

Department of Neurosurgery  
Hospital de la Ribera  
Alzira, Valencia, Spain

**Dr. M. Qureshi**

Division of Neurosurgery  
Department of Surgery, Aga Khan University Hospital  
Nairobi, Kenya

**Dr. P. Riesgo**

Department of Neurosurgery  
Hospital de la Ribera  
Alzira, Valencia, Spain

**Prof. P. H. Young**

Department of Neurosurgery  
Saint Louis University School of Medicine  
Microsurgery & Brain Research Institute  
St Louis, Missouri, USA

# REGISTRATION FORM

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Name

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Mailing Address

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City/State

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Country

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Country Code

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Phone

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Fax

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E-mail

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|--------------------------|--|------------------|
| <input type="checkbox"/> | <b>Three Day Course</b><br>(Max. participants 24)              | <b>1500 Euro</b> |
| <input type="checkbox"/> | <b>Live Demonstration Day Course</b><br>(Max. participants 50) | <b>350 Euro</b>  |

## Method of Payment

Bank Transfer

Viajes Iberia  
Banco Español de Crédito (Banesto)  
Avenida Jaime III  
07012 Palma de Mallorca

REFERENCE: CURSO LA RIBERA  
SWIFT CODE: ESPCESMMXXX  
IBAN CODE: ES32 0030 2446 11 0000391271  
Bank account number: 0030 2446 11 0000391271

## Official Language

ENGLISH

## FOR INFORMATION

Contact:

Fran García Ull

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Inma Toledano

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### Workshop Design

This workshop has been designed to provide the neurosurgeons with the opportunity to enhance their own skills in the new VITOM® Technology in a variety of microsurgical approaches to the spine and brain: By attending this workshop the participants will have an opportunity to gain and expand their knowledge regarding VITOM® telescope surgery of using minimally invasive techniques. Following completion of this program, participants should be able to:

- Use the VITOM® telescope technique for different neurosurgical procedures
- Describe minimally invasive approaches for VITOM® telescope surgery of spine, brain and peripheral nerve pathologies
- Identify methods to avoid any major complications of VITOM® telescope surgery

Kindly supported by

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