An illustration of a human lumbar spine, viewed from the side. The vertebrae are shown in a yellowish-gold color. A minimally invasive surgical approach is highlighted, showing a path through the interlaminar space and the transforaminal region. A surgical instrument, a tubular retractor system, is shown inserted into the spine. The instrument has a black handle and a silver metal shaft. The text '8710 0233 R WOLF' is visible on the instrument. The background of the spine illustration is a gradient of purple and blue.

4th International Training Course for Full-endoscopic Operations of the Lumbar Spine

Transforaminal and Interlaminar Access

**Symposium
with cadaver workshop
Paris, May 4th - 5th 2006**

Organizers:

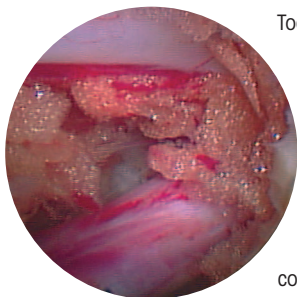
Department of Spine Surgery and Pain Therapy,
Center for Orthopaedics and Traumatology,
St. Anna-Hospital Herne, Germany

Invitation

Dear Colleagues,

The therapy of degenerative diseases of the lumbar spine carries with it medical and socio-economic problems. After conservative measures are exhausted and where there are exacerbated pain conditions or neurological deficits, a surgical procedure may become necessary. Despite good therapy results, consecutive damage may ensue due to traumatisation. It is therefore of particular importance to optimise these procedures on a continuous basis. The goal we should strive for is the minimisation of surgically induced traumatisation and negative long-term consequences, taking into account the existing quality standard.

Minimally invasive techniques can reduce tissue damage and its consequences. Endoscopic operations demonstrate advantages which have raised these procedures to the standard in various medical areas. On the lumbar spine, as a result of the development of the new interlaminar and lateral transforaminal access, the spinal canal with its adjoining structures can be reached full endoscopically. Technical problems have been solved by special rod-lens endoscopes with a large intra-endoscopic working channel and appropriate instruments. Working under a continuous stream of liquid offers options which have proved their worth in arthroscopic surgery through long experience.



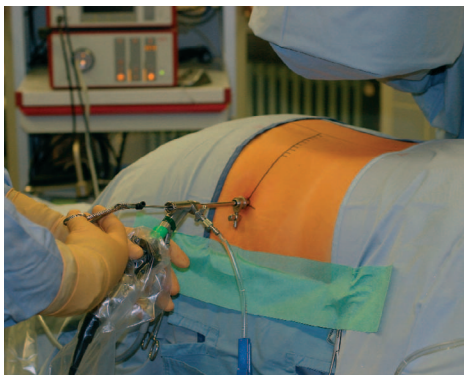
Today, the combination of the new surgical access routes with the technical developments makes possible a full-endoscopic methodology coupled with excellent visibility which, taking into account the indication criteria, carries with it the advantages of a truly minimally invasive procedure and is sufficient, low in complications and economic. Principal indications are disc herniations, spinal canal stenosis and intradiscal procedures such as the introduction of implants.

Full-endoscopic operations are an addition and an alternative within the overall concept of spinal surgery. Nevertheless, because of clear indications and boundaries, open and maximally invasive procedures are necessary. These must be mastered by the spinal surgeon in order, while taking into account the respective pathology, to be able to offer the appropriate procedure as well as cope with problems and complications of full-endoscopic operations.

In order to be able to visualise the exact position in the space at any time during the operation, detailed knowledge of the anatomy is a prerequisite. In addition, for the three-dimensional understanding of the anatomical and pathological structures, the imaginary linking of different imaging procedures and their sectional planes is necessary. This applies in particular to endoscopic techniques in which the direct visual reference between surgical access and working on the spot is lacking.

During the training course we intend, in a reciprocal exchange with yourselves, to try to demonstrate the current and future options as well as problems, risks and complications of full-endoscopic operations in the area of the lumbar spine. In an environment of practical demonstration where you perform access routines on cadavers yourself, typical practical experience for your expected learning curve or future clinical application can be gathered. Under intensive tuition by instructors, each participant will perform the various access routines on a practical level and run through special working procedures. For this reason the number of participants is limited. Nevertheless, the training course cannot replace the acquisition of the necessary extensive knowledge.

Having regard to the considerable demand for national and international training courses we hope we have pinpointed your field of interest in the enclosed programme and would be happy to welcome you as a participant at our symposium and at the dinner.



Sebastian Ruetten, MD, PhD
Head Department of Spine Surgery and Pain Therapy

PART I: FULL-ENDOSCOPIC TRANSFORAMINAL OPERATION

From 9.00 a.m. Registration

THEORY

10.00 - 10.10 Welcome and introduction
S. Ruetten, G. Godolias

10.10 - 10.30 Anatomy of the lumbar spine for the full-endoscopic transforaminal access
A. Lienert, S. Ruetten, M. Komp, P. Hahn

10.30 - 11.00 The transforaminal full-endoscopic operation:
Technique and indications of posterolateral to lateral access
M. Komp, S. Ruetten, A. Lienert, P. Hahn

11.00 - 11.30 Tips, problems and risks of the full-endoscopic transforaminal operation
S. Ruetten, M. Komp, A. Lienert, P. Hahn

11.30 - 12.00 Discussion

12.00 - 13.00 Lunch

CADAVER WORKSHOP

13.00 - 13.30 Demonstration of posterolateral and lateral transforaminal access
S. Ruetten, M. Komp

13.30 - 15.00 Practical exercises for participants
Instructors: S. Ruetten, M. Komp, A. Lienert, P. Hahn

15.00 - 15.30 Coffee break

15.30 - 16.00 Demonstration of transforaminal use of the bone cutter
S. Ruetten, M. Komp

16.00 - 17.30 Practical exercises for participants
Instructors: S. Ruetten, M. Komp, A. Lienert, P. Hahn

19.30 Boat trip on the Seine with common dinner

PART II: FULL-ENDOSCOPIC INTERLAMINAR OPERATION

THEORY

- 10.00 - 10.10 Introduction
S. Ruetten, G. Godolias
- 10.10 - 10.30 Anatomy of the lumbar spine for the full-endoscopic interlaminar access
P. Hahn, S. Ruetten, M. Komp, A. Lienert
- 10.30 - 11.00 The interlaminar full-endoscopic operation: Technique and indications
M. Komp, S. Ruetten, A. Lienert, P. Hahn
- 11.00 - 11.30 Tips, problems and risks of the full-endoscopic interlaminar operation
S. Ruetten, M. Komp, A. Lienert, P. Hahn
- 11.30 - 12.00 Discussion
- 12.00 - 13.00 Lunch

CADAVER WORKSHOP

- 13.00 - 13.30 Demonstration of interlaminar access
S. Ruetten, M. Komp
- 13.30 - 15.00 Practical exercises for participants
Instructors: S. Ruetten, M. Komp, A. Lienert, P. Hahn
- 15.00 - 15.30 Coffee break
- 15.30 - 15.50 Demonstration of interlaminar use of the bone cutter
S. Ruetten, M. Komp
- 15.50 - 16.50 Practical exercises for participants
Instructors: S. Ruetten, M. Komp, A. Lienert, P. Hahn
- 16.50 - 17.00 Closing meeting
S. Ruetten

Speakers / Instructors

Prof. Dr. med. Georgios Godolias

Director of the
Center for Orthopaedics and Traumatology,
St. Anna-Hospital Herne, Germany,
at the Department for Radiology and Microtherapy,
University of Witten/Herdecke

Dr. med. Arnd Lienert

Department of Spine Surgery and Pain Therapy,
Center for Orthopaedics and Traumatology,
St. Anna-Hospital Herne, Germany,
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University of Witten/Herdecke

Dr. med. Patrick Hahn

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St. Anna-Hospital Herne, Germany,
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University of Witten/Herdecke

Dr. med. Sebastian Ruetten

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St. Anna-Hospital Herne, Germany,
at the Department for Radiology and Microtherapy,
University of Witten/Herdecke

Dr. med. Martin Komp

Department of Spine Surgery and Pain Therapy,
Center for Orthopaedics and Traumatology,
St. Anna-Hospital Herne, Germany,
at the Department for Radiology and Microtherapy,
University of Witten/Herdecke

Department of Spine Surgery and Pain Therapy

Head: Sebastian Ruetten, MD, PhD

Center for Orthopaedics and Traumatology

St. Anna-Hospital Herne, Germany

Director: Georgios Godolias, MD, Prof

*at the Department of Radiology and Microtherapy
University of Witten/Herdecke*



ORGANIZERS:

Department of Spine Surgery and Pain Therapy,
Center for Orthopaedics and Traumatology,
St. Anna-Hospital Herne, Germany,
at the Department for Radiology and Microtherapy,
University of Witten/Herdecke
Hospitalstrasse 19, 44649 Herne, Germany

SCIENTIFIC DIRECTION:

Sebastian Ruetten, MD, PhD
Martin Komp, MD, PhD
Department of Spine Surgery and Pain Therapy,
Center for Orthopaedics and Traumatology,
St. Anna-Hospital Herne,
Germany

LANGUAGE: All lectures, presentations and discussions will be conducted in **ENGLISH**.

CONFERENCE LOCATION:

Ecole Européenne de Chirurgie
45, rue des Saints-Pères
75006 Paris
Tel.: +33 (0) 6 12 26 26 43
Fax: +33 (0) 1 42 86 40 17
web: www.eec-fr.com
e-mail: e-e-c@wanadoo.fr

ORGANISATION OFFICE:

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Richard Wolf GmbH
Product Management
Pforzheimer Str. 32
75438 Knittlingen
Germany
Tel.: +49 (0) 70 43 35-137
Fax: +49 (0) 70 43 35-462
e-mail: julia.armingeon@richard-wolf.com

SUGGESTED HOTEL:

Ibis Paris Tour Eiffel Cambronne
2, rue Cambronne
75015 Paris
Tel.: +33 (0) 1 40 61 21 21
Fax: +33 (0) 1 40 61 22 99

Fees: Monday - Thursday EUR 95,00.-
Friday - Sunday EUR 75,00.-
Breakfast: EUR 6,50.-

Reservation should be done until March 31st 2006.
Please use keyword: "Richard Wolf Germany"
For other hotels please contact the organisation office.



NIGHT EVENT:

Thursday, May 4th, 19:30 h:
Boat trip on the Seine with common dinner.

Please fax your registration form to +49 (0) 70 43 35-462

or via mail to:

Richard Wolf GmbH • Produktmanagement • Julia Armingeon • PF 1164 • 75434 Knittlingen • GERMANY

4th International Training Course for Full-endoscopic Operations of the Lumbar Spine Ecole Européene de Chirurgie, Paris, May 4th - 5th 2006

**Please fill out one registration form
for each single participant.**

☐ Yes, I will participate in the "4th International Training Course for Full-endoscopic Operations of the Lumbar Spine".

☐ I transferred the course fee of **EUR 400,-**
to
Kto.-Nr.: 433 383
BLZ: 660 700 04
Deutsche Bank AG, Bretten, GERMANY
Note to payee: "Spine Symposium Paris"

**There is a maximum of 26 Participants
for this symposium.**

Participant (please fill out completely)

Name:

First name:

Hospital:

Street:

Postcode / Town:

Country:

Tel.:

Fax:

e-mail:

Please send us your registration form until April 13th 2006.

Because of the limited number of participants only those can be registered, who receive a confirmation from the organisation office.

Date:

Stamp,
Signature:

Please fax your registration form to +49 (0) 70 43 35-462

or via mail to:

Richard Wolf GmbH • Produktmanagement • Julia Armingeon • PF 1164 • 75434 Knittlingen • GERMANY

4th International Training Course for Full-endoscopic Operations of the Lumbar Spine Ecole Européene de Chirurgie, Paris, May 4th - 5th 2006

**Please fill out one registration form
for each single participant.**

☐ Yes, I will participate in the "4th International Training Course for Full-endoscopic Operations of the Lumbar Spine".

☐ I transferred the course fee of **EUR 400,-**
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Signature:





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warm up – we
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