

Special Orthopedic Surgery

Minimal Invasive Surgery



# The Specialist

- ✓ Specialist in General Surgery, Traumatology, Orthopedic surgery and Sports Medicine
- ✓ 8 Years Medical superintendent in a German Hospital of Special Orthopedic Surgery
- ✓ Chief of Dept. of Special Orthopedic Surgery in Germany
- ✓ Consulting Orthopedic Surgeon at the Cote d'Azur / France
- ✓ Consulting Orthopedic Surgeon at Zurich / Switzerland

**Dr. Kuhn** studied medicine in Münster and Berlin (Germany), Chieti (Italy), Lille (France) and Boston (USA).

Due to his stays at universities abroad, he learned about various health care systems at an early stage in his career and began an intensive international exchange of experiences.



# The Specialist

## Education and Scholarships

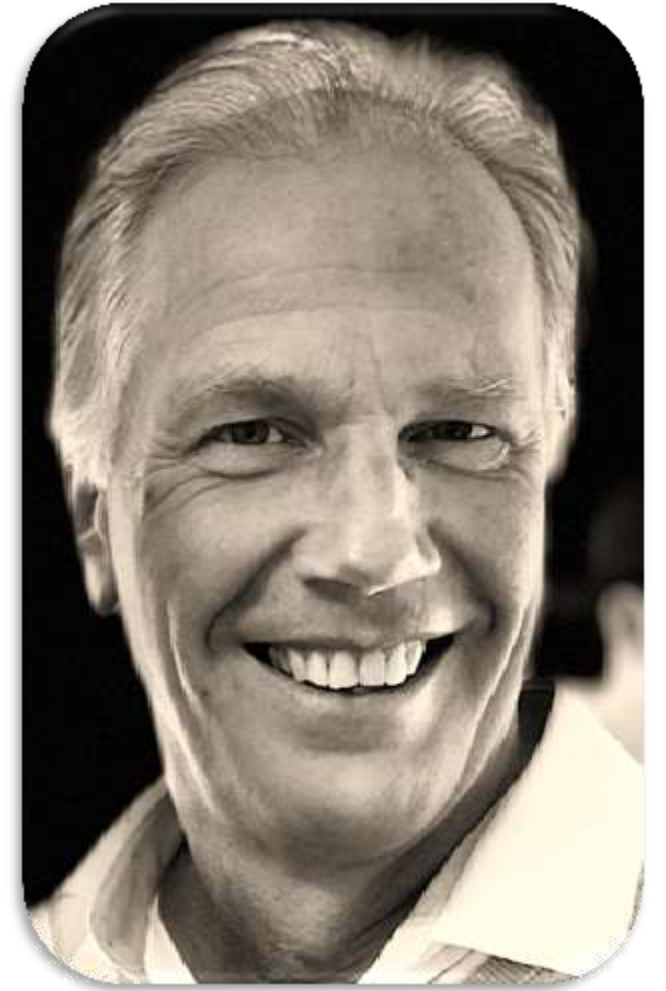
### Graduation:

- 1996 General Surgeon,
- 1997 Sports medicine,
- 2000 Orthopedic Surgeon,
- 2004 Chirotherapy,
- 2005 Special Orthopedic Surgery,
- 2006 Special Traumatology,
- 2006 Children Orthopedics

1985 - 1986 Scholarship (Academical German Exchange) Université de Lille (France)  
2000 Travelling fellowship USA (German Association of Foot and Ankle Surgery- German Association of Orthopedics and Traumatology)

### Languages:

German, English, French, Italian, Spanish



# The Specialist – Research & Publications

- 
- 1992** Construction of a low pressure tourniquet - Dissertation
  - 2000** Freiberg- Koehler´s disease Research and Publication
  - 2001** Protrusio Socket Plastic Research and Publication
  - 2002** Coauthor- development and construction of the Nanos short stem hip prosthesis
  - 2003** The intermetatarsal neuropathy Civinini-Durlacher, called Morton's metatarsalgia
  - 2003** History of Civinini Durlacher Neuropathy
  - 2005** Development and construction of an oscillating osteotom for new osteotomies in foot surgery
  - 2004** Description of the Cinderella Shoe Syndrome
  - 2007** Publication of the Cinderella Shoe Syndrome
  - 2010** Arthroereisis with the Kalix Implant
  - 2014** Individualized prosthetic knee implantation
  - 2015** Nanos – neck preserving stem Indication, implantation and 15 year results

# The Specialist – Employment History

## **2012 - today**

Head of Special Orthopaedic Surgery at Lohne and

Consulting ortopedic surgeon at the Côte d´Azur / France and at Zurich Switzerland

## **2005 - 2012**

Medical Director, Superintendent of St Antonius Hospital Emstek & Head of Dept. of Orthopaedic Surgery

## **1998- 2005 Senior physician**

Orthopedic Surgery St Elisabeth-Hospital/ Gütersloh (Prof. Dr. H.-H. Küster/ Past President of the European Foot and Ankle Society)

## **1997- 1998 Assistant physician**

Orthopedic Surgery/ St Franziskus Hospital/ Osnabrück (Dr. H. Ehrenbrink, Dr. U. Knoche)

## **1991- 1997 Assistant physician**

General Surgery and Trauma Surgery Hospital of Minden (Prof. Dr. J. Grönniger/ Prof. Dr. V. Echtermeyer)

## **1989- 1990 Assistant physician**

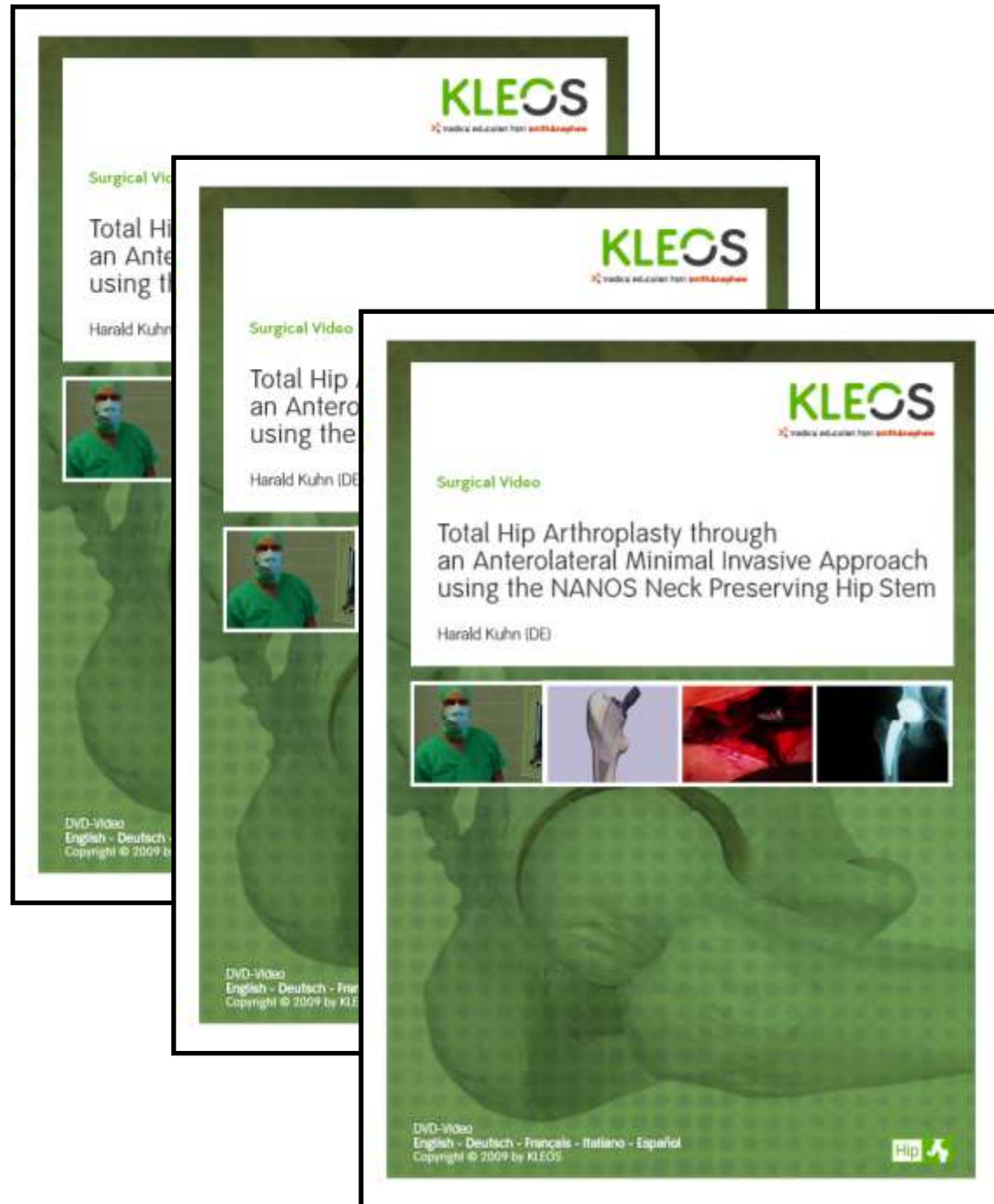
Orthopedic Surgery/University of Münster (Prof. Dr. H.-H. Matthiaß)

## **1982- 1989 Medical studies**

at the University of Münster/ Germany, Chieti/ Italy, Berlin/ Germany, Lille/ Martinique/ France, Boston-Harvard/ USA

## **1981- 1982 Studium generale**

# Minimal Invasive Hip Surgery



Anterolateral minimalinvasiv approach  
Presentation in 2005,  
Publication in 2009

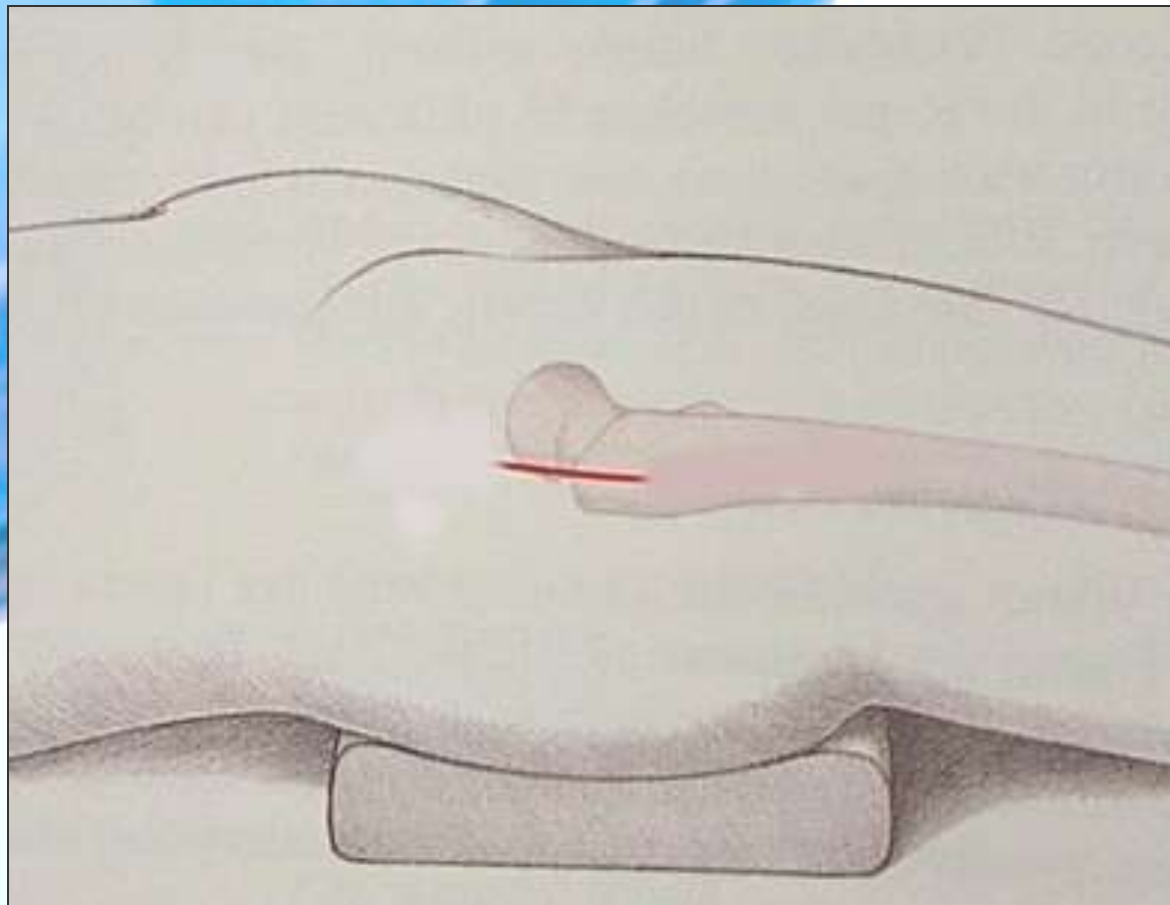


More than 65,000 Nanos implants worldwide

Dr. Kuhn Experience >1500 18-93 y.o.

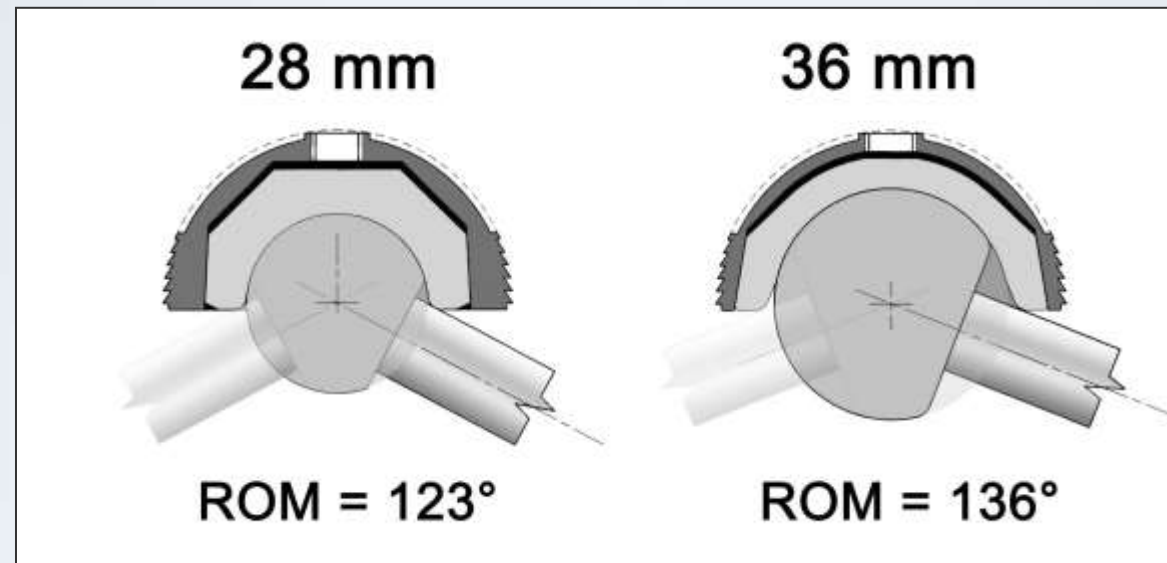


## Minimal Invasive Surgical Approach



Bone preservation  
(Acetabulum and femur) is a part of  
minimal invasive surgery (MIS)

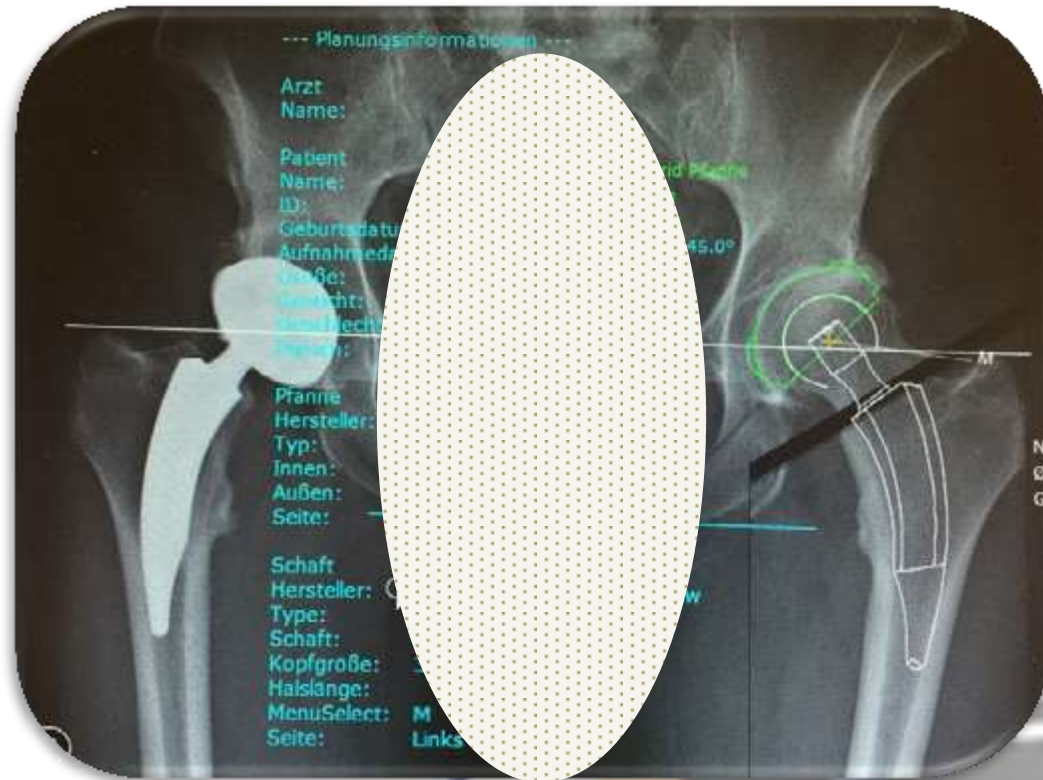
# Minimal Invasive Hip and Knee Surgery



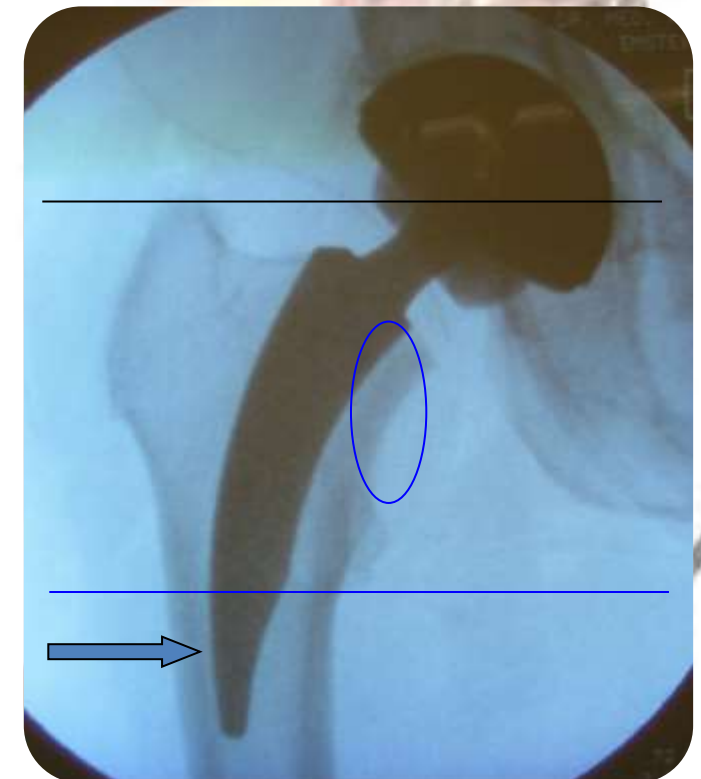
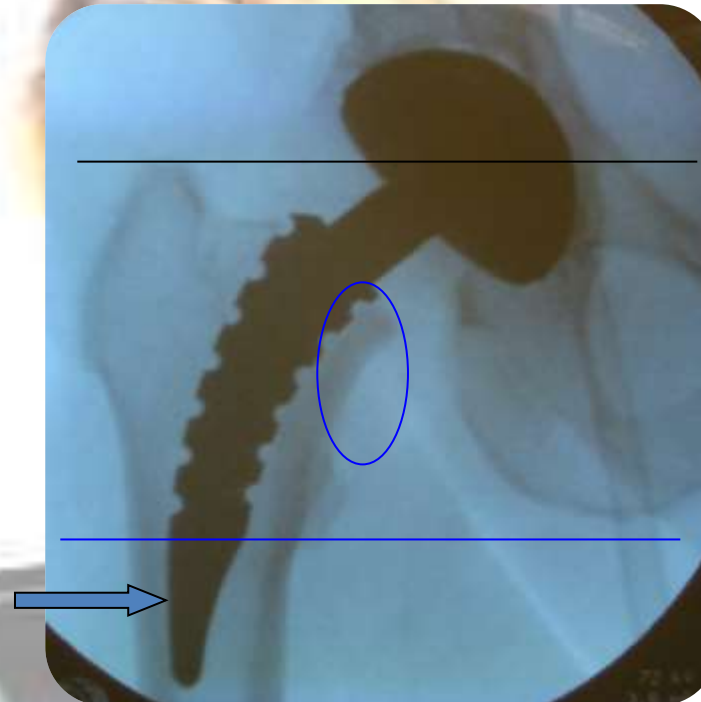
High mobility  
High range of motion  
High stability



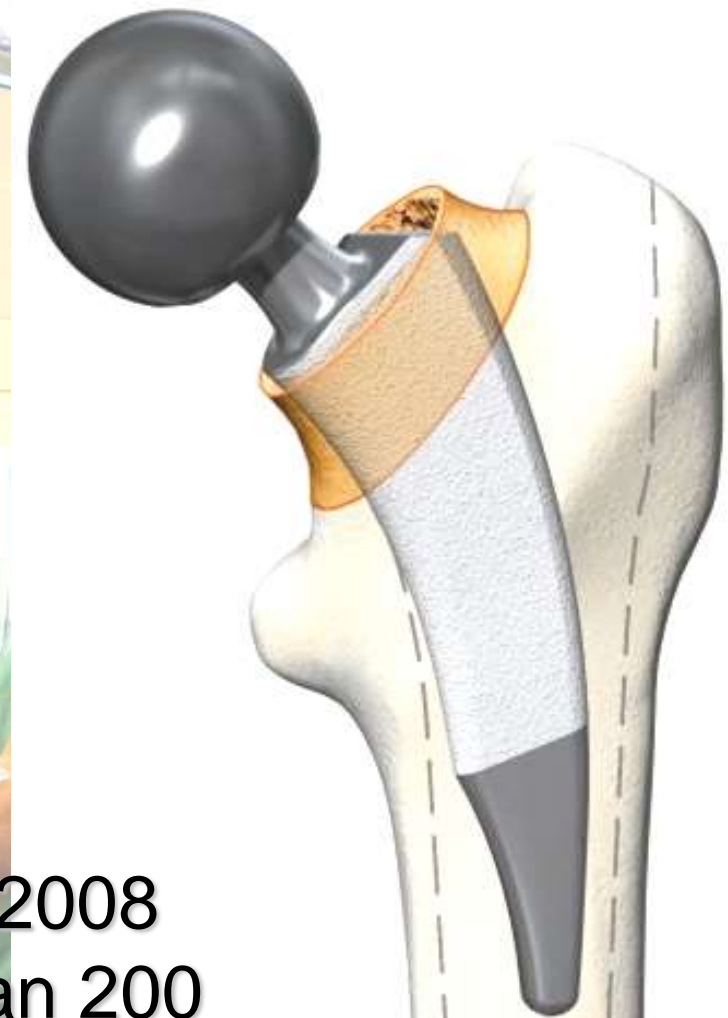
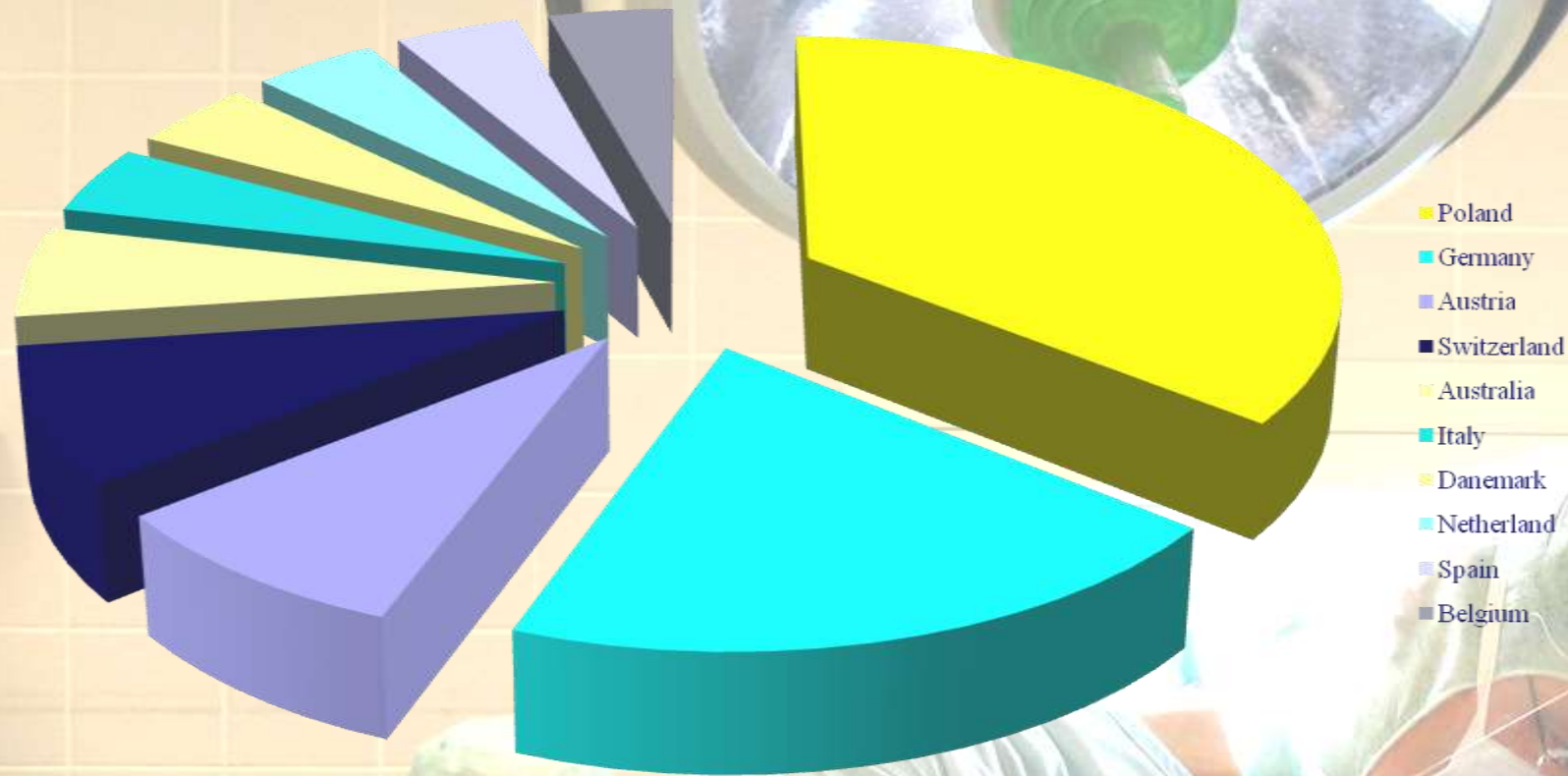
## Preoperative CAD-planning



## Intraoperative position control



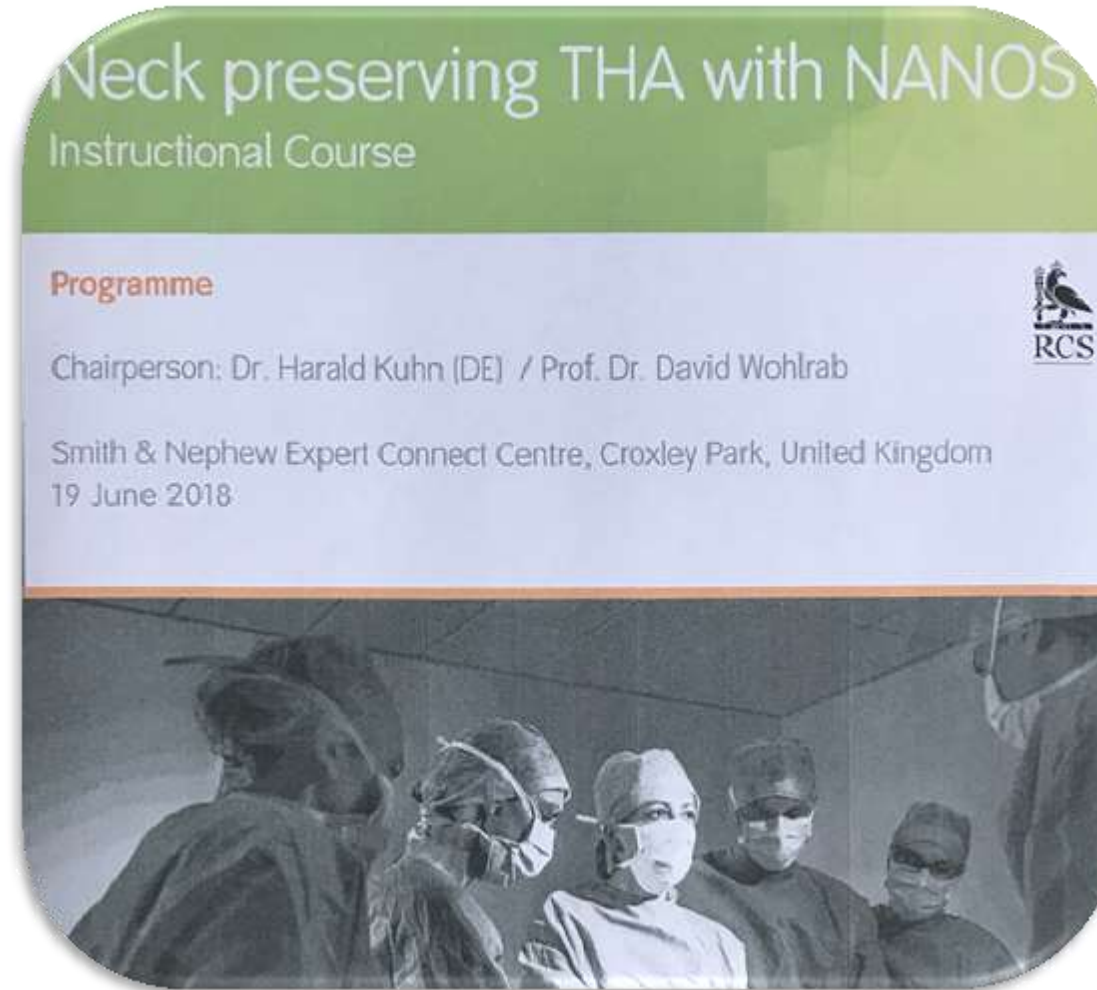
# Minimally Invasive Hip Surgery



Since 2008  
more than 200  
instructional courses and teaching operations



# Nanos Instruction



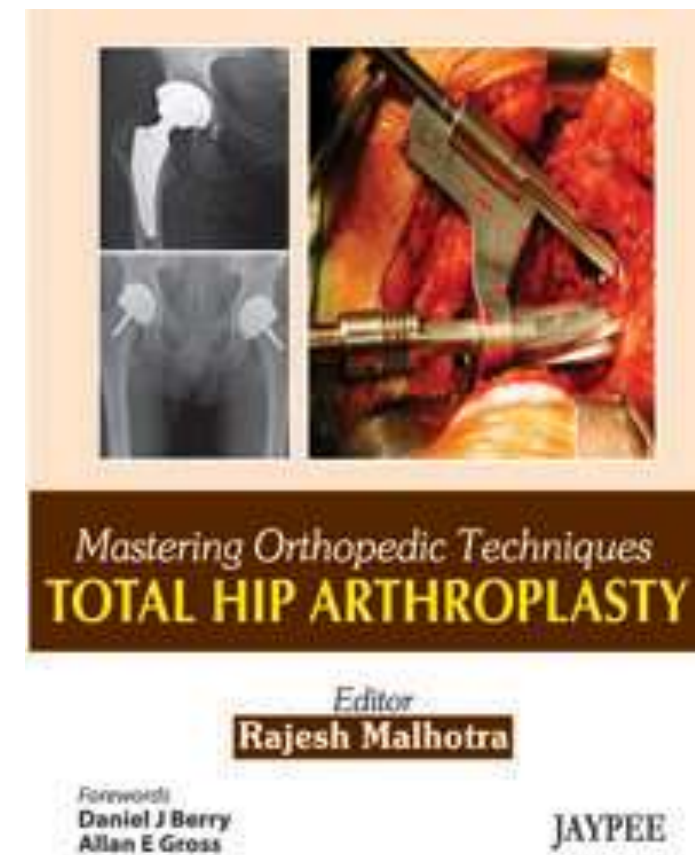
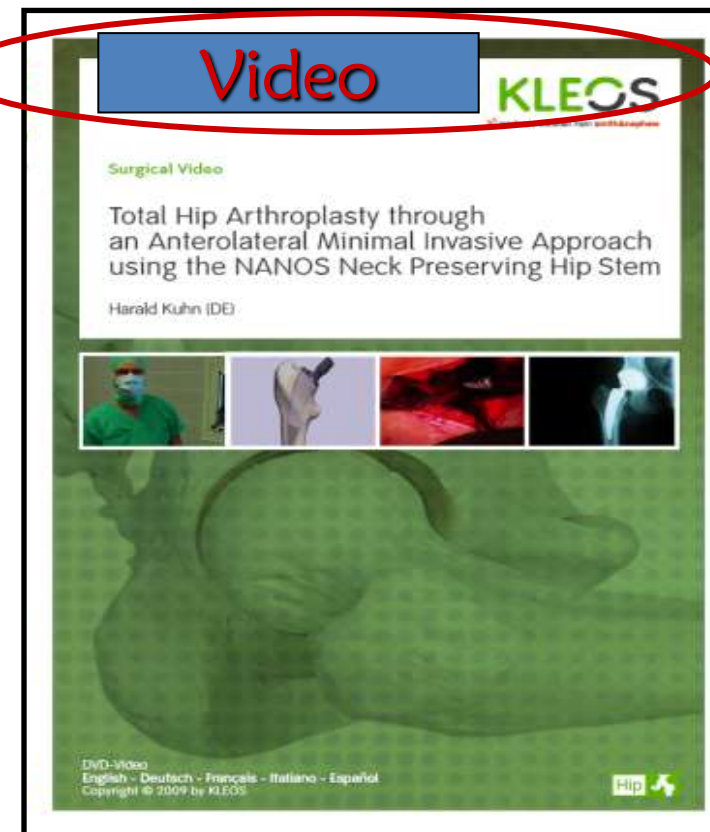
## Publications

## Podcast

Total Hip Arthroplasty  
through a Minimally Invasive  
Anterolateral Approach  
using the NANOS Neck Preserving Hip  
Stem

<http://www.smith-nephew.com/education/resources/video/2017/july/tha-through-a-minimally-invasive-anterolateral-approach-using-the-nanos-neck-preserving-hip-stem-with-a-r3-cup/>

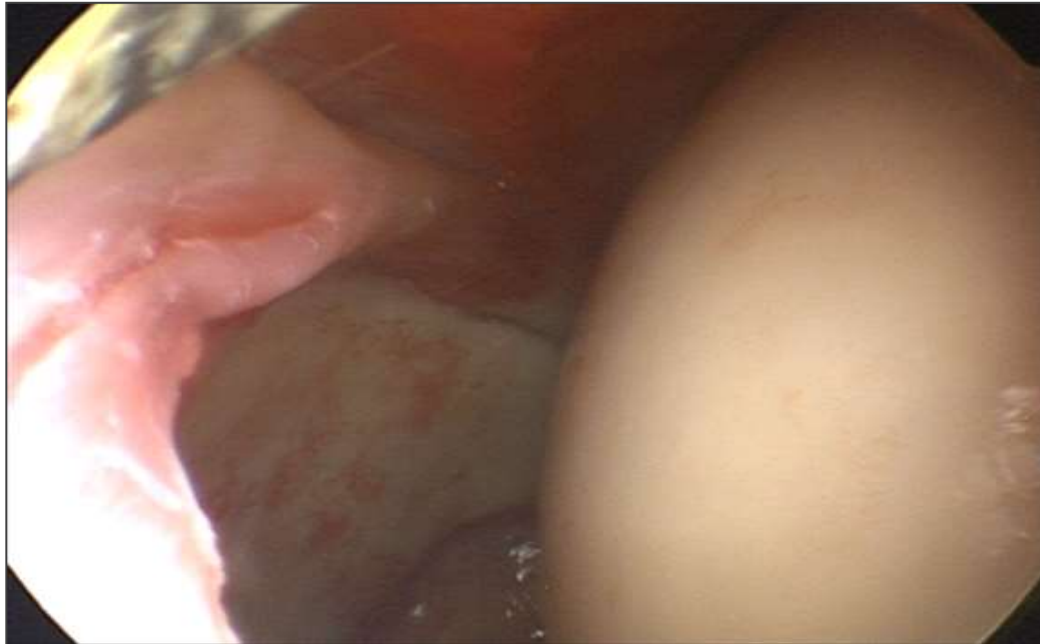
## Video



Minimally Invasive Approach

Author: Dr. Kuhn\_

# Arthroscopic Surgery - Certified Surgeon



Hip

Knee

Ankle

Lavage

Shaving

Forage

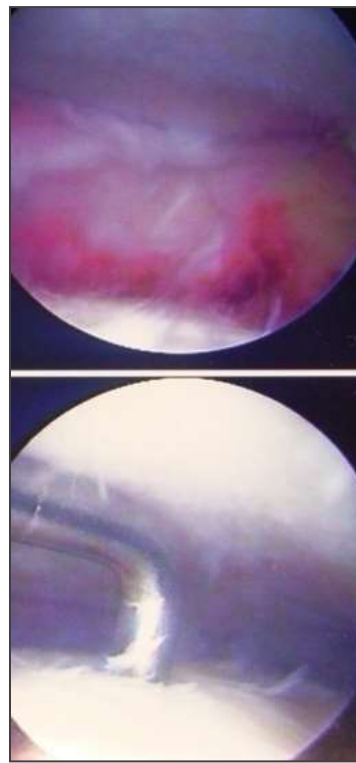
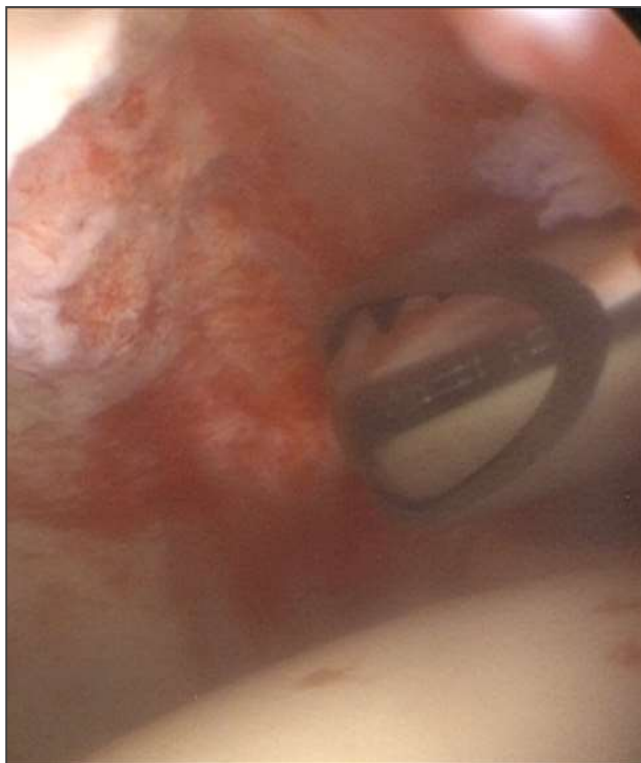
Abrasions

Microfracturing

Cartilage repair

Ligament repair

Arthrodesis



# Minimally Invasive Knee Surgery



Patellofemoral joint replacement

Mono-, Bi-compartmental & Total Knee Replacement



Coauthor of **Individualized** Total Knee Replacement 4Motion -Artiqo with preoperative CT planning and custom made tools

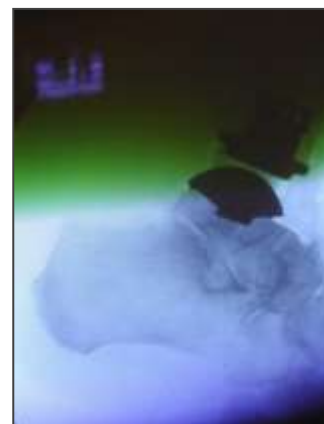


Certified for Implantation of **Individualized** Mono-, Bi-compartmental & Total Knee Replacement with preoperative CT planning custom made prosthesis

# Foot & Ankle Surgery



## Differentiated foot surgery & ankle replacement



**Reisestipendium**  
**USA Travelling Fellowship 2000**

*Harald Kuhn*  
Der Präsident  
03.01.2000

# Specialist of minimal invasive vertebral augmentation

- More than 15 years of experience with vertebral augmentation
- Surgical instructor for more than 200 leading spine surgeons with different techniques of vertebral augmentation

( Paris, Marseille, Nizza, Monaco, Brüssel, Madrid, Barcelona, Birmingham, Nottingham, Hamburg, Frankfurt, Mannheim...)

Since 2004 certified for Kyphoplasty

Since 2011 certified for SpineJack assisted vertebral reconstruction and augmentation

Since 2016 certified for Tektora assisted vertebral reconstruction and augmentation

Since 2016 certified for Quattroplastie assisted vertebral reconstruction and augmentation

Kuhn H. Indications, limits and advantages of minimal invasive vertebral augmentation –  
Invited speaker – World Congress of Minimal Invasive Spine Surgery Paris 11.-14-06.2014



## Intra-operative Care – low infection rates



## Post-operative Care and Physiotherapy



Former Emstek Care Foundation with Dr. Kuhn – Awarded by the German President

Association franco allemand de chirurgie orthopédique et traumatologique

## Foundation and Official Meeting Berlin 27.10.2010



**Prof. Sautet  
Dr. Kuhn  
Dr. Henky  
Prof. Thomsen  
Dr. Gerdes-Kuhn  
Prof. Bollini  
Prof. Pfeil  
Dr. Tracol  
Prof. Sedel**



**Dr. Harald Kuhn President  
Prof. Dr. Joachim Pfeil Past President  
Dr. Philippe Tracol President  
Dr. Pierre Henky Past President**

# Expertise in Germany, France and Switzerland



Clinique Bethanien Zurich Suisse



Clinique Oxford Cannes France

This proposal along with its contents are provided on the understanding that the ideas, solutions and concepts are and remain the intellectual property of Dr. Harald Kuhn

They will not be used without the involvement of Dr. Harald Kuhn nor without his consent to use them in his absence.