



**SPECIALITY
DAYS 2023**
24-25 NOVEMBER
WARSAW, POLAND



ROBOTICS, AI AND DIGITAL
TOOLS IN KNEE SURGERY

EKA – European Knee Associates

ROBOTICS, AI AND DIGITAL TOOLS IN KNEE SURGERY

EKA Programme – DAY 1 – Friday 24/11/2023

SESSION 1: 08:15-09:30

Artificial Intelligence in Knee Surgery

Michael HIRSCHMANN (*Switzerland*)
Bruno VIOLANTE (*Italy*)

Machine learning, deep learning and neural networks	Daniel PEREZ-PRIETO (<i>Spain</i>)
AI for predicting outcomes, LOS and complications in TKA: Is it useful ?	Rüdiger VON EISENHART-ROTHER (<i>Switzerland</i>)
AI to set a novel TKA Alignment "The Boundary Alignment"	Bruno VIOLANTE (<i>Italy</i>)
Future prospects for AI	Michael HIRSCHMANN (<i>Switzerland</i>)
Robotic Uni is superior for alignment and ligament balance	Roland BECKER (<i>Germany</i>)
Robotic aid is not needed: An experienced surgeon can achieve the same outcomes	Michael CLARIUS (<i>Germany</i>)

SESSION 2: 10:30-11:30

Guest Society Session: French Society of Hip and Knee :Innovation and Knee Arthroplasty

Michel BONNIN (*France*)
Guillaume DEMEY (*France*)

Automated planning	Guillaume DEMEY (<i>France</i>)
Additive manufacturing	Patrice MERTL (<i>France</i>)
Robotic knee replacement	Sebastian LUSTIG (<i>France</i>)
Custom TKA	Michel BONNIN (<i>France</i>)
Augmented Reality	Remy COULOMB (<i>France</i>)
AI, the never ending story	Joan-Leal BLANQUET (<i>Spain</i>)

SESSION 3: 13:30-15:30

Advances in Arthroplasty

Daniel PEREZ PRIETO (*Spain*)
Roland BECKER (*Germany*)
Jacek Kowalczewski (*Poland*)
Heiko Graichen (*Germany*)

Advances in the diagnosis of periprosthetic infection	Pier INDELLI (<i>USA/Italy</i>)
Imageless robotic TKA	Max ETTINGER (<i>Italy</i>)
Image based robotic TKA	Reha TANDOGAN (<i>Turkey</i>)
Robot - can you do it?	Jacek KOWALCZEWSKI (<i>Poland</i>)
Comparison of current robotic systems : Is there a clear winner ?	Joan-Leal BLANQUET (<i>Spain</i>)
How phenotyping of knees complements robotic TKA?	Michael HIRSCHMANN (<i>Switzerland</i>)

SESSION 4: 16:30-18:00

Techniques in Osteotomy

Raghibir KHAKHA (*UK*)
Martijn BRINKMAN (*Netherlands*)

Principals of osteotomies around the knee	Vlad PREDESCU (<i>Romania</i>)
Surgical technique of open wedge HTO	Konrad SLYNARSKI (<i>Poland</i>)
Surgical technique of closed wedge DFO	Raghibir SINGH KHAKHA (<i>UK</i>)
Results of osteotomies around the knee	Martijn BRINKMAN (<i>Netherlands</i>)
Surgical technique of de-rotational osteotomy	Steffen SCHRÖTER (<i>Germany</i>)
Complications of osteotomies around the knee	Matt DAWSON (<i>UK</i>)

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EKA Programme – DAY 2 – Saturday 25/11/2023

SESSION 5: 08:15-09:45

Joint preserving techniques

Przemysław LUBIATOWSKI (*Poland*)
Felix DYRNA (*Germany*)

Osteotomies in patellofemoral instability	Konrad SLYNARSKI (<i>Poland</i>)
Cartilage transplantation and osteotomies	Raghib SINGH KHAKHA (<i>UK</i>)
3D analysis of deformities	Jörg HARRER (<i>Germany</i>)
PSI in complex cases	Martijn BRINKMAN (<i>Netherlands</i>)
Role of gait analysis in osteotomies around the knee	Matt DAWSON (<i>UK</i>)
VR in planning and performing osteotomies	Steffen SCHRÖTER (<i>Germany</i>)

SESSION 6: 10:30-12:00

Technology in Knee Replacement

Karl Eriksson (*Sweden*)
Nanne Kort (*Netherlands*)

Digital planning in TKA : What are the benefits ?	Heiko GRAICHEN (<i>Germany</i>)
Patient Specific Knee Implants: Mid term outcomes	Markus ARNOLD (<i>Switzerland</i>)
Patient Specific Instrumentation: still a valid option?	Nanne KORT (<i>Netherlands</i>)
Personalized small implants: When biology has failed	Karl ERIKSSON (<i>Sweden</i>)
Have the new technologies in TKA improved outcomes & patient satisfaction ?	Pawel SKOWRONEK (<i>Poland</i>)
Augmented reality in TKA	Sandro FUCHENTESE (<i>Switzerland</i>)
Knee preservation or early TKA ?	Romain SEIL (<i>Luxembourg</i>)

SHARING: 12:00-12:30

Knee Preservation	Steffen SCHRÖTER (<i>Germany</i>)
Partial knee replacement	Pawel SKOWRONEK (<i>Poland</i>)
Total knee replacement	Reha TANDOGAN (<i>Turkey</i>) Bruno VIOLANTE (<i>Italy</i>)

HIGHLIGHT SPEAKERS:

Michael HIRSCHMANN (*Switzerland*)
Pier INDELLI (*USA*)
Romain SEIL (*Luxembourg*)



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