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At the Jesús Usón Minimally Invasive Surgery Centre (JUMISC) we provide two types of training activities: courses with a defined and official program, and courses or training stays in which we apply a flexible program adapted to the needs of each attendant. The first constitute a group of activities successively repeated yearly or every other year, with a closed pre determined program, whilst the latter entail a personalized and more flexible gradual program adapted to the surgeon according to their experience level and specifically aimed surgical technique.

In both cases, we work with a reduced number of attendants (14 maximum); these activities include mainly hands-on practice on ex vivo tissues and experimental animal models – the fraction destined to theoretical knowledge never surpasses 20% –, and are based on a pyramidal training model of gradual difficulty increase developed at the JUMISC. We are thus able to provide extensive hands-on training allowing the participants to practice the techniques learned under constant faculty tutoring.

This pyramidal training model has been applied in microsurgery training activities since 1987. The usefulness and effectiveness of this model for the learning of Microsurgery and its necessary skills is scientifically supported, by validation studies and support from different scientific medical associations (Spanish Urology Association, AEM, SEI, SECIB, ISEM, etc.). It is also endorsed by the attending faculty of experts, and by the attendants themselves, who show a very high satisfaction level, and which have granted the JUMISC with the attendance of a highly significant number of surgeons of all specialties in the last twenty seven years (2352 attendants).
COURSE ON MICROSCOPIC AND PIEZOELECTRIC TECHNIQUES IN DENTISTRY: ENDODONTICS, IMPLANTOLOGY AND PROSTHESIS

ATTENDANTS: 13

FEES: 795 euros

COURSE DIRECTORS
• Dr. A. Anta Escuredo. Specialist Graduate in Oral Implantology. País Vasco University UPV/EHU. Bilbao (Spain).
• Dr. J. Eskurza Pérez. Specialist in endodontics, private practice. Bilbao (Spain).
• Dr. G. Santamaria Arrieta. Specialist Graduate in Oral Implantology. País Vasco University UPV/EHU. Bilbao (Spain).
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR
• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES
• Microscopy in root canal treatment: Conduct identification, sealing of furca’s perforations, of medial third perforations and apical sealing with MTA®.
• Microscopy in pulp therapy in deciduous dentition.
• Periapical surgery: Techniques, indications, ultrasound and microscopy use.
• Microscopy applied to conventional dentures and implant prosthetics.
• Maxillary sinus floor elevation surgery: Technique, ultrasound and microscopy use, complications management

FACULTY
• Abellán Rubio, E. JUMISC (Spain)
• Anta Escuredo, A. Bilbao (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Brizuela Velasco, A. Bilbao (Spain)
• Eskurza Pérez, J. Bilbao (Spain)
• Santamaria Arrieta, G. Bilbao (Spain)
COURSE ON MICROSURGICAL TECHNIQUES FOR DENTISTRY AND ORAL SURGERY

ATTENDANTS: 13

FEES: 850 euros
775 euros (SECIB members)

COURSE DIRECTORS
• Dr. José Luis Gutiérrez Pérez. Oral Surgery Department, Faculty of Dentistry, Sevilla University. Sevilla (Spain).
• Prof. Dr. M. García Calderón. Stomatologist. Private practice. Specialized on Oral Surgery and Implants. Oral Surgery Department, Faculty of Dentistry, Sevilla University. Sevilla (Spain).
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR
• Dra. M.C. Calles Vázquez.
mccalles@ccmijesususon.com

OBJECTIVES/PROGRAMA
• Microscope application for mucogingival surgery.
• Application of the microscope for periapical surgery.
• Vascular Microsurgery: end-to-end anastomosis.

FACULTY
• Abellán Rubio, E. JUMISC (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Calles Vázquez, M.C. JUMISC (Spain)
• Cabezas Talaver, J. Cáceres (Spain)
• Gallego Romero, D. Sevilla (Spain)
• García Calderón, M. Sevilla (Spain)
microincisional cataract surgery (MICS) practice course

attendants: 13
fees: 820 euros

course directors
• Dr. J. Cezón Prieto. Director of International Center of Ocular Microsurgery. Sevilla (Spain)
• Dr. L. Cadarso Suárez. Head of the Ophthalmology Department. Meixoeiro General Hospital (Vigo)
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

cordinator
• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

objectives
• Introduction to microsurgical instruments and phacoemulsification equipment
• Theory and practice on microincisional cataract surgery
• Use of intraocular lenses.
• Promoting the use of these techniques in clinical practice.

faculty
• Abellán Rubio, E. JUMISC (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Cadarso Suárez, L. Vigo (Spain)
• Cezón Prieto, J. Sevilla (Spain)

theoretical and practical course on non-penetrating glaucoma filtering surgery

attendants: 13
fees: 700 euros

course directors
• Dr. J. González Rodríguez. Glaucoma Unit. Ophthalmology Department. Meixoeiro General Hospital. Vigo (Spain)
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

cordinator
• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

objectives
• Introduction to microsurgical instruments
• Training on surgical treatment of glaucoma
• Preparation of the surgical site to perform the technique non-penetrating
• Training on scleral flap on the eye
• Training on removal of the trabecular meshwork to help drain fluids
• Training on placement of implants

faculty
• González Rodríguez, J. Vigo (Spain)
THEORETICAL AND PRACTICAL COURSE ON KERATOPLASTY AND RECONSTRUCTIVE TECHNIQUES FOR THE EYE SURFACE

ATTENDANTS: 14

FEES: 820 euros

COURSE DIRECTORS
- Dr. F. Arnalich Montiel. Ophthalmology Department. Ramón y Cajal Hospital. Madrid (Spain)
- Dr. J. Mendicute del Barrio. Head of the Ophthalmology Department. Donostia Hospital. San Sebastián (Spain)
- Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain)
- Dr. F. M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain)

COORDINATOR
- Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES
- Preparation of button corneal.
- Training on surgical techniques: lamellar keratoplasty (Big Bubble technique), penetrating keratoplasty, endothelial keratoplasty (DSAEK).

FACULTY
- Abellán Rubio, E. JUMISC (Spain)
- Arnalich Montiel, F. Madrid (Spain)
- Ballestín Rodríguez, A. JUMISC (Spain)
- Bidaguren Urbieta, A. San Sebastián (Spain)
- Martínez Soroa, I. San Sebastián (Spain)
- Mendicute del Barrio, J. San Sebastián (Spain)
COURSE ON EXPERIMENTAL FLAPS IN MICROSURGERY

ATTENDANTS: 13

FEES: 975 euros

COURSE DIRECTORS

• Dr. J. Arias Gallo. Maxillofacial Surgery Service at Sanitas Hospital La Moraleja. Madrid (Spain)
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F. M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR

• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES

• Introduction to microsurgical instruments and optic magnification systems: magnifying glasses and surgical microscope. Tremor control and suturing technique.
• Suturing exercises.
• Vascular Microsurgery: Carotid end-to-end anastomosis.
• Experimental flaps: TRAM flap, caudal epigastric flap, facial transplantation, cranial epigastric perforator flap.

FACULTY

• Abellán Rubio, E. JUMISC (Spain)
• Arias Gallo, J. Madrid (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Calles Vázquez, M.C. JUMISC (Spain)
• González Otero, T. Madrid (Spain)
• Morán Soto, M.J. Madrid (Spain)
UROLOGY (ANDROLOGY)

UROLOGIC MICROSENTURY
TRAINING COURSE

ATTENDANTS: 13

FEES: 900 euros

COURSE DIRECTORS
- Dr. F. Jiménez Cruz. Urologist. Clínica de la Salud. Valencia (Spain)
- Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
- Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR
- Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES
- Introduction to microsurgical instruments and optic magnification systems: magnifying glasses and surgical microscope. Tremor control and suturing technique.
- Suturing exercises.
- Vascular Microsurgery: end-to-end and end-to-side anastomosis.
- Microsurgical applications in Urology.
- Vasovasostomy practice.

FACULTY
- Abellán Rubio, E. JUMISC (Spain)
- Allona Almagro, A. Madrid (Spain)
- Ballestín Rodríguez, A. JUMISC (Spain)
- Calles Vázquez, M.C. JUMISC (Spain)
- Cruz Navarro, N. Sevilla (Spain)
- Jiménez Cruz, F. Valencia (Spain)
- Lima Rodriguez, R. JUMISC (Spain)
- Moncada Iribarren, I. Madrid (Spain)
- Usón Casaús, J.Mª. Cáceres (Spain)
NERVE AND VASCULAR
MICROSURGERY COURSE (I)

ATTENDANTS: 13

FEES: 900 euros

COURSE DIRECTORS
• Dr. J. Algora Lillo. Upper Limb Section, Infanta Cristina Hospital. Badajoz (Spain).
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR
• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES
• Introduction to microsurgical instruments and optic magnification systems: magnifying glasses and surgical microscope. Tremor control and suturing technique.
• Suturing exercises.
• Nerve suturing. Dissection of the sciatic nerve in a rat.
• Vascular Microsurgery: Carotid end-to-end and end-to-side anastomosis; dissection and suturing of the abdominal aorta; Venous suturing dissection and suturing of the femoral vein; Venous grafting in vascular microsurgery.

FACULTY
• Abellán Rubio, E. JUMISC (Spain)
• Algora Lillo, J. Badajoz (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Calles Vázquez, M.C. JUMISC (Spain)
• Gutiérrez Goyeneche, A. Badajoz (Spain)
• Lima Rodriquez, R. JUMISC (Spain)
NERVE AND VASCULAR MICROSURGERY COURSE (II)

ATTENDANTS: 13

FEES: 900 euros

COURSE DIRECTORS

• Dr. P. Marquina Solá. Head of the hand surgery and microsurgery department. Mutua de Accidentes de Zaragoza. Zaragoza (Spain).

• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR

• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES

• Introduction to microsurgical instruments and optic magnification systems: magnifying glasses and surgical microscope. Tremor control and suturing technique.

• Suturing exercises.

• Nerve suturing. Dissection of the sciatic nerve in a rat.

• Vascular Microsurgery: Carotid end-to-end and end-to-side anastomosis; dissection and suturing of the abdominal aorta; Aortoiliac anastomosis; Dissection and suturing of the femoral vein; Venous grafting in vascular microsurgery.

FACULTY

• Abellán Rubio, E. JUMISC (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Calles Vázquez, M.C. JUMISC (Spain)
• Lima Rodríguez, R. JUMISC (Spain)
• Marquina Solá, P. Zaragoza (Spain)
• Pi Folguera, J. Barcelona (Spain)
• Usón Casaús, J.M. Cáceres (Spain)
COURSE ON BASIC MICROSURGERY IN VETERINARY MEDICINE

ATTENDANTS: 13

FEES: 600 euros

COURSE DIRECTORS
• Prof. Dr. J.M. Usón Casaús. Surgery Department, Faculty of Veterinary Medicine, Cáceres (Spain).
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F. M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR
• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES
• Introduction to microsurgical instruments and optic magnification systems: magnifying glasses and surgical microscope. Tremor control and suturing technique.
• Suturing exercises.
• Cornea and conjunctiva microsurgical management.
• Microsurgical handling of peripheral nerves. Nerve suturing. Dissection of the sciatic nerve.
• Vascular Microsurgery: Carotid end-to-end and end-to-side anastomosis.

FACULTY
• Abellán Rubio, E. JUMISC (Spain)
• Ballestín Rodríguez, A. JUMISC (Spain)
• Calles Vázquez, M.C. JUMISC (Spain)
• Pérez Merino, E.M. Cáceres (Spain)
• Usón Casaús, J.M. Cáceres (Spain)
COURSE ON EYELID AND OCULAR SURFACE SURGERY IN VETERINARY

ATTENDANTS: 14

FEES: 800 euros

COURSE DIRECTORS
• Prof. Dr. A. Bayón del Río. Ophthalmology Department of Animal medicine and surgery. Veterinary Faculty. University of Murcia. Murcia (Spain)
• Prof. Dr. J. Usón Gargallo. Honorary Presidency “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).
• Dr. F.M. Sánchez Margallo. Scientific Director of the Foundation “Jesús Usón” Minimally Invasive Surgery Centre. Cáceres (Spain).

COORDINATOR
• Dra. M.C. Calles Vázquez. mccalles@ccmijesususon.com

OBJECTIVES
• Introduction to microsurgical instruments.
• Theory and practice on surgical techniques: entropion, ectropion, distriquiasis, ectopic cilia, removal of foreign body.
• Surgical treatment of indolent ulcer.
• Thermokeratoplasty.

FACULTY
• Abellán Rubio, E. JUMISC (Spain)
• Ballestin Rodríguez, A. JUMISC (Spain)
• Bayón del Río, A. Murcia (Spain)
• Leiva Repiso, M. Barcelona (Spain)
• Peña Giménez, T. Barcelona (Spain)
PERSONAL TRAINING MODEL

Alongside with the previously described regulated training activities that take place at the JUMISC, our centre offers personalized training stays in which the attendant is able to define its program a la carte.

These training stays follow the same model as the regulated courses, with a pyramidal philosophy, based on the gradual evolution of abilities with the progressive surpassing of tasks of increasing difficulty. Thus, the attendant should complete a previous simulator phase where the basic maneuvering and suturing skills are mastered, followed by the elected techniques hands-on animal model.

FLEXIBLE PROGRAMME

This type of learning activity differentiates from official JUMISC courses in its flexible programming, according to the specific needs of each surgeon in what concerns the specific intended procedures as well as its total duration. This way we can closely adjust the training program to the surgeons’ previous experience level and availability. These training stays can be set up from one to several sessions, carried out continuously or spaced in time. These training stays are exclusively hands-on, with variable proportions of simulator and animal model practice, in accordance with the surgeons’ previous experience and the desired goal of skills acquisition.

CONSTANTLY TUTORED

Attendants are constantly tutored by JUMISC’s Microsurgery department personnel during the performance of the different tasks and procedures, who professionally transmit all tips and tricks regarding the most adequate techniques of suturing, dissection, tissue handling, etc.

The surgical techniques carried out during these personalized training programs include those included in our courses’ programs, as well as others which could be interested for surgeons. Moreover, we provide counseling on the most adequate animal model for a determined surgical technique.
MICROSURGERY
TRAINING STAYS

VASCULAR AND NERVE MICRO SURGERY
• Basic concepts of microsurgery. Magnification, instruments and sutures.
• Tremor control and suturing techniques.
• Vascular handling.
• End-to-end and end-to-side arterial anastomosis techniques.
• Venous suturing.
• Microvascular grafting.
• By-pass microsurgical techniques.

PHACOMULSIFICATION
• Basic concepts of phacoemulsification
• Fluid dynamics
• Use of phacoemulsification equipment
• Complications on cataract surgery
• Hands-on practice on operating theatre

UROLOGIC MICRO SURGERY
• Basic concepts of microsurgery. Magnification, instruments and sutures.
• Tremor control and suturing techniques.
• Vascular suturing techniques: Practice of end-to-end and end-to-side anastomosis.
• Vasovasostomy practice.
MICROSURGERY COURSES SCHEDULE

DENTISTRY

II COURSE ON MICROSCOPIC AND PIEZOELECTRIC TECHNIQUES IN DENTISTRY: ENDODONTICS, IMPLANTOLOGY AND PROSTHESIS
February 27th - March 1st, 2014
Technical Secretariat: A. Ballestín, aballestin@ccmijesususon.com

XI COURSE ON MICROSURGICAL TECHNIQUES FOR DENTISTRY AND ORAL SURGERY.
October 3rd - 4th, 2014
Technical Secretariat: A. Ballestín, aballestin@ccmijesususon.com

OPHTHALMOLOGY

VIII MICROINCISIONAL CATARACT SURGERY (MICS) PRACTICE COURSE
June 13th - 14th, 2014
Technical Secretariat: E. Abellán, eabellan@ccmijesususon.com

VI THEORETICAL AND PRACTICAL COURSE ON NON-PENETRATING GLAUCOMA FILTERING SURGERY
October 17th - 18th, 2014
Technical Secretariat: E. Abellán, eabellan@ccmijesususon.com

XIII THEORETICAL AND PRACTICAL COURSE ON KERATOPLASTY AND RECONSTRUCTIVE TECHNIQUES FOR THE EYE SURFACE
November 21st - 22nd, 2014
Technical Secretariat: E. Abellán, eabellan@ccmijesususon.com

MAXILLOFACIAL & PLASTIC SURGERY

V COURSE ON EXPERIMENTAL FLAPS IN MICROSURGERY
October 20th-23rd, 2014
Technical Secretariat: A. Ballestín, aballestin@ccmijesususon.com
UROLOGY (ANDROLOGY)

XXVI UROLOGIC MICRO SURGERY TRAINING COURSE
January 16th - 18th, 2014.
Technical Secretariat: A. Ballestin, aballestin@ccmijesususon.com

VASCULAR SURGERY

XX THEORETICAL AND PRACTICAL COURSE ON MICRO SURGERY: VESSELS AND NERVES
April 10th-12th, 2014.
Technical Secretariat: A. Ballestin, aballestin@ccmijesususon.com

XXI THEORETICAL AND PRACTICAL COURSE ON MICRO SURGERY: VESSELS AND NERVES
Technical Secretariat: A. Ballestin, aballestin@ccmijesususon.com

VETERINARY MEDICINE

V COURSE ON EYELID AND OCULAR SURFACE SURGERY IN VETERINARY MEDICINE
May 8th - 10th, 2014.
Technical Secretariat: E. Abellán, eabellan@ccmijesususon.com

VIII COURSE ON BASIC MICRO SURGERY IN VETERINARY MEDICINE
September 18th - 20th, 2014
Technical Secretariat: A. Ballestin, aballestin@ccmijesususon.com

JUMISC CCMIJU

Carretera N-521, km. 41,8
10071 CÁCERES (SPAIN)
Tel. (+34) 927 18 10 32
Fax (+34) 927 18 10 33
e-mail: ccmi@ccmijesususon.com
For further information visit our website:

WWW.CCMIJESUSUSON.COM

JUMISC CCMIJU
Carretera N-521, km. 41,8
10071 CÁCERES (SPAIN)
Tel. (+34) 927 18 10 32
Fax (+34) 927 18 10 33
e-mail: ccmi@ccmijesususon.com

Acknowledgements:

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