# 7th GENEVA SPINE COURSE



# Sagittal balance

## Master course

JC. Le Huec (Bordeaux) - A. Faundez (Genève) C. Barrey (Lyon)

Sagittal Balance course Hôtel Warwick

### Anatomical workshop

**SWISS Foundation for Innovation** and Training in Surgery Saturday January 19th, 2019







Didactic and practical teaching

How to integrate spine balance analysis in your daily practice for diagnosis and treatment

Pelvic and spine parameters, normal and degenerative changes

WORKSHOP sessions: individual computer analysis with KEOPS software

Cases discussion

12 CME credits SSOT 10 CME credits SSN

> Hôtel Warwick 14 Rue de Lausanne, 1201 Geneva

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#### Sagittal Balance Course Agenda

#### **PROGRAM**

### Principles for daily practice in DDD

Sagittal balance is a complex topic. In order to understand the concepts, a different type of educational course is needed. This course is modeled on a European program, designed by Professor Jean Charles Le Huec, teaching at Bordeaux university medical school and past Eurospine (Spine Society of Europe) president and Dr Antonio Faundez, consultant at Geneva University Hospital.

A comprehensive approach of the balance concept will be presented.

The course is designed to introduce concepts slowly with adequate time for questioning and discussion before moving on to more advanced concepts.

It is mandatory for all participants to visit an e-learning website. You will receive an access code with the payment of your registration. There will be 5 sessions of 10 to 15 min each, which will provide you the basic knowledge that you should have, to be able to actively participate during the course.

There is a 'hands on' approach to measuring parameters on spinal X Rays and the use of a software for digital images. The speakers will provide their expertise through didactic presentations and clinical cases precisely selected.

The program will also include breakout session to discuss clinical cases and their treatment options, according to sagittal balance parameters.

All participants are requested to bring their own cases well documented in a ppt format for open discussion

Chairmen: JC. Le Huec, A. Faundez Invited Speakers: C. Barrey, F. Christensen, P. Maxy

#### FRIDAY JANUARY 18th, 2019

07:45	WFI COMF: A. Faundez
U/ '45	VVELCUIVIE: A. Faunde/

07:55 OBJECTIVES OF THE COURSE: JC. Le Huec

08:00 Intro

08:15

Quizz on the basics of sagittal balance based on the pre course e learning

• To evaluate the candidates

• To allow to make some adapted remarks to obtain strong basic knowledge

08:45 Normative value to analyze the spinal balance

08:50 Pelvic parameters: the pelvic vertebra - A. Faundez

• Pelvic version as compensatory phenomenon

09:00 Correlation between spine shape and pelvic shape - A. Faundez

- Sagittal Spine contour in the asymptomatic population
- Simple asymptomatic clinical cases analysis

09:15 Global balance analyzis: C7 plumb line and other parameters - JC. Le Huec

- SVA, SSA, Barrey index, FBI index, C2-HA
- Clinical case discussion

09:45 Analysis of compensatory mecanisms - C. Barrey

- Compensation and imbalance: how to recognize
- Local regional general
- Clinical examples

#### COFFEE BREAK AND OPEN CASE DISCUSSION 10:45 Cervical spine sagittal alignment : JC. Le Huec • New parameters, classification of normal asymptomatic population • Analysis of cervical pathology and balance problems Clinical cases 11:15 How do I analyse the balance of my patients: A. Faundez, JC. Le Huec • Clinical cases presentation with analysis on 4 simple lumbar degenerative cases • Clinical cases presentation on deformity: 2 cases • Clinical presentation on spondylolisthesis: 2 cases 12:30 Demonstration sagittal software analysis: 2 cases analysed with different softwares • Keops balance analyzer : A. Faundez Surgimap analyzer : C. Barrey • Sagittalmeter app (iphone and android): JC. Le Huec **LUNCH TIME: ON SITE BUFFET** 14:00 Sagittal balance analysis in pathology: PJK risk 14:00 Biomechanics of junctional failures - JC. Le Huec, P. Maxy Analysis of failure • Biomechanical consequences for thoraco-lumbar fusion methods 14:30 Case discussion: where to stop the fusion • Kephren software demonstration - P. Maxy, A. faundez 15:00 How to control the correction: pre op, per op 15:00 Strategy of correction for kyphosis and kypho scoliosis, pre op planification: planification softwares • Nuvamap, surgimap - C. Barrey • Keops and other - A. Faundez Clinical case demonstration: 1 case with each software, audience vote 15:30 Which technique to choose - A. Faundez • Chevron osteotomy with TLIF Posterior substraction osteotomy: PSO Anterior column release: ACR Sacro-iliac fixation **COFFEE BREAK** 16:30 How to control per-operatively - JC. Le Huec X ray control App control Spinenav control 17:00 How implant self adapting shape can help to restore the anatomical spine shape: new implant concept to clinical experience - F. Christensen 17:30 Clinical cases discussion • Full documented cases: vote of the audience 18:30 Take home message - JC. Le Huec, A. Faundez • Open case discussion • Product fare: Medtronic, Nuvasive, Medicrea • EOS station visit on request (free)

Free evening or Group restaurant (reservation requested)



# Sagittal balance



**PROGRAM** 

## SATURDAY JANUARY 19th, 2019

#### ANATOMICAL WORKSHOP

SWISS Foundation for Innovation and Training in Surgery Rue Gabrielle-Perret-Gentil 4, 1205 Geneva AND THANKING IN SOURCE

Chairmen: A. Faundez, JC. Le Huec

Monitors: F. Christensen, D. May, T. Selz, C. Barrey

08:00 Welcome and preparation for the lab - JC. Le Huec

08:20 Surgical technique of PSO lumbar - JC. Le Huec

08:40 Surgical technique of PSO lumbar thoracic - C. Barrey

09:00 XLIF/DLIF/LLIF: ACR (Anterior Colonn Reconstruction) - A. Faundez

09:15-9:30 Preparation to go to cad lab

#### 09:30 WORKSHOP WITH 5 STATIONS

Medtronic: Table 1: Lumbar and thoracic chevron, tlif, pso, SIJ fixation

Table 2: ALIF OLIF DLIF

Nuvasive: Table 3: Lumbar and thoracic chevron, tlif, pso

Table 4: ALIF OLIF DLIF

Medicrea: Table 5: Lumbar and thoracic chevron, tlif, pso

12:30 Wrap up and discussion (clinical cases)

END OF THE COURSE AND LUNCH BUFFET

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CONTACT FOR FURTHER INFORMATION: sagittalcourse@gmail.com