5th GENEVA SPINE COURSE

Sagittal balance
Master course
JC. Le Huec (Bordeaux) - A. Faundez (Genève)

Sagittal Balance course
Hotel Novotel Genève Centre
Friday September 30th, 2016

Anatomical workshop
Institut d'anatomie - Pr J. Fasel
Centre Médical Universitaire
Saturday October 1st, 2016

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

Information: sagittalcourse@gmail.com

Supported by Novotel Genève Centre
Rue de Zurich 19, 1201 Genève, Suisse
**Sagittal Balance Master Course Agenda**

**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 questions 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

**Speakers:**
S. Genevay, C. Lamartina, D. Boschieri, J. Duff

**07:45** Welcome : A. Faundez

**07:55** Objectives of the course : JC. Le Huec

**08:00** Intro

**08:15** Quiz on the basics of sagittal balance based on the e-learning
- To evaluate the candidates
- To allow to make some adapted remarks to obtain strong basic knowledge

**08:30** Spinal Imaging of the spine for sagittal balance analysis : JC. Le Huec
- Standardised long standing X rays : posture and X ray source
- EOS imaging system

**08:45** Normative value to analyze the spinal balance

**08:45** Pelvic parameters : the pelvic vertebra : A. Faundez
- Pelvic version as compensatory phenomenon

**09:00** Spine parameters : JC. Le Huec
- New normative values issued of 3D standing analysis

**09:15** Correlation between spine shape and pelvic shape : A. Faundez
- Sagittal Spine contour in the asymptomatic population
- Discussion on clinical cases

**09:30** Coffee break and open case discussion

**10:00** Global balance analysis : C7 plumb line and other parameters : JC. Le Huec
- SVA, SSA, Barrey index, FBI index
- Clinical case discussion

**11:00** Breakout session : workshop
- Clinical cases presentation with analysis on : 4 cases
- Keops database : Ph. Roussouly
- Sagittal meter app (iphone and android)

**12:00** Aging process and sagittal balance consequences
- Analyzis of compensatory mechanism
- Compensation and imbalance : how to recognize : JC. Le Huec
- Local regional general : A. Faundez
- Neurological and muscular consequences : S. Genevay
- Radicular and cord consequences
- Muscle atrophy

**12:30** Lunch time : on site buffet

**13:45** Sagittal balance analysis in different pathology
- Sagittal balance variations and pathology : A. Faundez
- Can sagittal balance influence : DH, Degen SPL, Canal stenosis, etc…
- Degenerative spondylolisthesis without lysis : A. Faundez
- Analysis principles and consequence for surgical treatment : A. Faundez
- Clinical case discussion

**14:20** Case discussion

**15:15** Coffee break

**15:45** Kyphosis : iatrogenic and degenerative
- Harmonious kyphosis and angular kyphosis : PSO and SPO strategy
- How to make the choice : PSO, SPO, Combined
- How high should I fix

**16:15** Biomechanics of junctional failures : JC. Le Huec
- Analyzis of failure
- Biomechanical consequences for thoraco-lumbar fusion methods

**16:30** Lumbar canal stenosis : decompression with or without fusion : JC. Le Huec
- How to analyse and find the traps : JC. Le Huec
- Outcomes of decompression with and without fusion : A. Faundez

**17:00** Cervical spine sagittal alignment
- New parameters, classification of normal asymptomatic population
- Discussion : clinical cases

**17:25** Complications and revisions after PSO : C. Lamartina
- How to manage and can we prevent early and complications ?

**18:00** Coffee break and open case discussion

**Open case discussion :**
- Product fare : MEDTRONIC, ZIMMER
- EOS station visit on request (free)

**FREE EVENING OR GROUP RESTAURANT (RESERVATION REQUESTED)**

**FRIDAY SEPTEMBER 30TH, 2016**

[More information provided in the image, including links and contact details]
SATURDAY OCTOBER 1st, 2016

ANATOMICAL WORKSHOP
University of Geneva – Medical School
Department of Anatomy – 1 rue michel SERVET- Geneva


08:00 Welcome and preparation for the laboratory  JC. Le Huec
08:20 Anatomy of the nerve root ganglion  J. Fasel
08:40 Surgical technique of Chevron Interpedicular Osteotomy (CIO–SPO)  D. Boscherini
08:50 Surgical technique of PSO  A. Faundez
09:05 Cervical osteotomies techniques  J. Duff
09:15 Thoracic osteotomies technique  C. Lamartina

09:30 WORKSHOP WITH 5 STATIONS

CIO–SPO, PSO and other various techniques to restore lumbar, thoracic and cervical alignment

12:00 Wrap up and discussion (clinical cases)

13:00 END OF THE COURSE AND LUNCH BUFFET

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CONTACT FOR FURTHER INFORMATION : sagittalcourse@gmail.com