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 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:** M. Schindler, C. Lamartina

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**FRIDAY SEPTEMBER 30th, 2016**

**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

**08:45**  
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

**08:50**  
NORMATIVE VALUE TO ANALYZE THE SPINAL BALANCE  
08:50 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: JC. Le Huec  
- 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: A. Faundez
  • Clinical cases presentation with analysis on: 4 cases
    - Keops database: Ph. Roussouly
    - Sagittal meter app (iphone and android)

AGING PROCESS AND SAGITTAL BALANCE CONSEQUENCES
12:00 Analysis of compensatory mechanisms: JC. Le Huec
  • Compensation and imbalance: how to recognize
  • Local regional general

12:30 Neurological and muscular consequences: M. Schindler
  • Radicular and cord consequences
  • Muscle atrophy

12:00 LUNCH TIME : ON SITE BUFFET

13:45 SAGITTAL BALANCE ANALYSIS IN DIFFERENT PATHOLOGY
13:45 Sagittal balance variations and pathology: A. Faundez
  • Can sagittal balance influence: DH, Degen SPL, Canal stenosis, etc...

14:00 Biomechanics of junctional failures: JC. Le Huec
  • Analysis of failure
  • Biomechanical consequences for thoraco-lumbar fusion methods

14:20 Case discussion

15:15 COFFEE BREAK

15:45 Degenerative spondylolisthesis without lysis: A. Faundez
  • Analysis principles and consequence for surgical treatment
  • Analysis of a prospective multicentric cohort of short lumbar fusion
  • Clinical case discussion

16:15 Kyphosis: iatrogenic and degenerative flat back: JC. Le Huec
  • Harmonious kyphosis and angular kyphosis: PSO and SPO strategy

16:45 Lumbar canal stenosis: decompression with or without fusion: A. Faundez
  • How to analyse and find the traps
  • Outcomes of decompression with and without fusion

17:00 CERVICAL SPINE SAGITTAL ALIGNMENT: JC. Le Huec
  • New parameters, classification of normal asymptomatic population
  • Discussion: clinical cases

17:30 COMPLICATIONS AND REVISIONS AFTER PSO: C. Lamartina
  • How to determine the indications: PSO, SPO, Combined
  • How high should I fix
  • How to manage and can we prevent failure and complications?

18:30 TAKE HOME MESSAGE: JC. Le Huec, A. Faundez
  Open case discussion:
  Product fare: MEDTRONIC, ZIMMER
  EOS station visit on request (free)

FREE EVENING  OR GROUP RESTAURANT (RESERVATION REQUESTED)
SAGITTAL BALANCE
ANATOMICAL WORKSHOP
University of Geneva - Medical School
Department of Anatomy - 1 rue michel SERVET - Geneva

Chairmen : A. Faundez, JC. Le Huec, J. Fasel

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 (decompression-SPO)
D. Boscherini
08:50 Surgical technique of PSO A. Faundez
09:15 Thoracic osteotomies technique C. Lamartina

WORKSHOP WITH 5 STATIONS
(decompression-SPO), PSO and other various techniques to restore lumbar, thoracic and cervical alignment

12:00 Wrap up and discussion (clinical cases)

END OF THE COURSE AND LUNCH BUFFET

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CONTACT FOR FURTHER INFORMATION : sagittalcourse@gmail.com