

IGASS Forum

Lyon, France

Venue: Centre Médico-Chirurgical de Réadaptation des Massues
November 20th – 21st, 2009

“Sagittal Balance”

Forum Moderators:

Eric Berthonnaud, Lyon; **Sébastien Charosky**, Berck sur Mer; **Daniel Chopin**, Berck sur Mer;
Alexis Faline, Lyon; **Hubert Labelle**, Montréal; **Jean-Charles Le Huec**, Bordeaux; **Pierre Roussouly**, Lyon
(Rune Hedlund, Gothenburg; *excused*; Azmi Hamzaolgu, Istanbul, *excused*)

DAY 1: Friday, November 20, 2009

Introduction-Opening

D Chopin

SESSION 1: Spinopelvic parameters definition

13:00 – 13:20 Pelvic parameters definition

- Duval Beaupère vs Jackson parameters
- Shape and orientation
- Pelvic adaptation mechanisms
- Typical parameter values of asymptomatic populations

H Labelle
JC Le Huec

13:20 – 13:35 Spinal parameters definition

- Shape and orientation
- Typical parameter values of asymptomatic populations

P Roussouly

13:35 – 13:50 Balance parameters definition

- Main calculated parameters definition (C7 positioning)
- Typical parameter values of asymptomatic populations

S Charosky

SESSION 2: From sagittal balance to spinopelvic organization

14:00 – 14:15 Basis of a spine and pelvis geometry

- Geometric relationship between angles and parameters
- Statistical correlations between parameters within asymptomatic populations

A Faline

14:15 – 14:40 Profiles classification (type 1 to 4)

- Geometric method to obtain profile classification
- Profiles classification (type 1 to 4) exposition

P Roussouly

SESSION 3: From sagittal imbalance to spinal disorders

14:40 – 14:55 Spinal disorders fundamental mechanisms

- Load distribution on the spine and pelvis

P Roussouly

15:00 – 15:30 *Coffee Break*

15:30 – 15:50 Association between spinal disorders and posterior aspect of the torso

- Are degenerative changes linked to the posterior aspect of the torso?
- Pathological mechanism of low back pain
- Pathological mechanism of stenosis
- Global and segmental approach

**P Roussouly
D Chopin**

16:00 – 16:25 Spondylolisthesis (children/adolescent)

- L5 isthmic lysis, high grade spondylolisthesis
- Can we predict evolutions in spondylolisthesis with regard to spinopelvic organization?

H Labelle

16:25 – 16:45 Degenerative spinal deformities

- Compensation analysis of sagittal imbalance in degenerative spinal deformities: cornerstone for surgical strategies

D Chopin

SESSION 4: Spinal radiological analysis criteria

16:55 – 17:15 Using a software for 2D/3D modelling

- Benchmark of existing technical solutions to measure and reconstruct spine in 3 dimensions

JC Le Huec

DAY 2: Saturday, November 21, 2009

SESSION 4: Spinal radiological analysis criteria

08:00 – 08:15 How to manage a long standing X-Ray

E Berthonnaud

- Concise and practical guideline focused on image acquisition, storage and conversion. It will include patient positioning, image definition/compression, necessity of a standing position not offered by CT scan or IRM, definition and characteristics of main image formats ...

SESSION 5: Practical approach using a spine & pelvic reconstruction software

08:15 – 08:30 Introduction to the software

E Berthonnaud

- Demonstration of a profile reconstruction using a spine & pelvic reconstruction software
- How does it work, what is calculated?
- Typical problems encountered while processing X-Rays and how to solve them

08:30 – 10:45 Cases

- Case # 1
- Case # 2
- Case # 3

H Labelle

D Chopin

10:45 – 11:15 Coffee Break

- 11:15 – 12:45*
- Case # 4
 - Case # 5

P Roussouly

Concluding remarks & Take home message

P Roussouly

13:00 Buffet Lunch

End of the Forum

Contact:

IGASS

Mrs. Anke Huber-Jerome

39, rue de Saint-Nom

F-78112 Fourqueux / France

Tel/Fax: +33 - 1 34 51 98 17

E-mail: anke.huber-jerome@igass-spine.org