

Brachial Plexus and Peripheral Nerve Surgery EVALUATION IS THE ANSWER

A follow-up of the Evaluation I meeting in 2023

Organized by:
A. Gilbert and E. Devinney

Day 1: Evaluation Of The Nerve Stump • Day 2: Evaluations Of The Results • Hands On Workshops

Sitges (Barcelona)
26th-27th October 2026



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Our aims...

The main problems we have in Brachial Plexus and Peripheral Nerve surgery are not technical, they are due to difficulties in evaluation:

- Evaluation of the roots, their ability to give a strong input into the grafts. With experience, we may have thought that, by looking, resecting the root we would be able to judge the functionality of the root. This has proved wrong and even by using MRI, histology, intraoperative stimulation, the situation is not perfect, making difficult the decision.
- Our aim will be to develop easy simple ways to combine these informations , preoperatively by 3D reconstruction and maybe printing of the MRI, CT scan, Ultrasound examinations to better planify the procedure, during the operation with easy, fast histology and nerve potentials, using A.I.
- A better evaluation is also necessary but the multiple scales are examiner dependent and can hardly be trusted and compared. The movement evaluation based on video interpretation by A.I. will become the standard.

This meeting will not only show the ultimate progresses with all these techniques but we plan workshops to train the surgeons in doing they own evaluation with their computer and smartphone and give them the tools to apply it.



Alain Gilbert and Eric Devinney

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Pre-Program

PRE-OP
Radiology, MRI
H.R. Echography
Electrical? EMG? SEP?
Examination?

INTRA-OP
Eyes
Histology
Recorded potentials
Angiography? Fluorescence?

POST-OP – RESULTS
Recording: video, cameras, connected glasses
Interpreting: softwares
The problem of evaluating spasticity after nerve procedures
Publishing

HOW TO MAKE IT SIMPLE?



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DAY 1

Introduction: *A. Gilbert*

1/ PRE-OP

How precise can MRI be to evaluate a root ?

D. Binaghi (Germany)

Special type of brachial plexus injury: partial rupture of intraspinal rootlets-MRI evaluation

SF. Wang (China)

How helpful is High-Resolution Nerve Ultrasound in evaluation of the Spinal Nerves?

C. Heinen (Germany)

How examination of the patient can give precious information?

M. Merle (France)

From 2D to 3D: The Future of Spatial AI and the Plexus?

A. Lim (Singapore)

Discussion

2/ INTRA-OP

Current state of intra operative histology

J. Bahm (Belgium)

Intraoperative assessment of root histology

E. Devinney (USA)

How do I take decisions

S. Wang (China)

Correlation between histopathological nerve assessment and clinical recovery in brachial plexus birth injuries

F. Fitoussi (France)

Do you rely on appearance of the root ?

M. Merle (France), A. Gilbert (France)

Recipient nerve stump in Nerve transfer: how distal?

N. Felici (Italy)

Do the quality of the contiguous roots play a role in root stump assessment in BPI?

N. Felici (Italy)

Recorded potentials to assess the root: it can be easy

K. Casanas (Spain)

Use of Angiography and Fluorescence

Discussion

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DAY 2

3/ POST-OP – RESULTS

Functional evaluation of Brachial Plexus

J. N. Goubier (France)

The problem of evaluation in spastic patients

C. Leclercq (France)

The use of a subjective system for evaluation of BP results

B. Battiston (Italy)

He Use of Augmented Reality in Assessing Upper Extremity
Range of Motion

C. Symonette (Canada)

Markerless motion capture

S. Russo (USA)

Robotic evaluation of results

Q. T. Zhu (China)

Brain plasticity as a way to evaluate the results

M. Socolovsky (Argentina)

Physiotherapy and its influence on the result

M. Socolovsky (Argentina)

Discussion

New tools for publishing:

J. Bahm (Belgium)

4/ HOW TO MAKE IT SIMPLE?

E. Devinney, A. Gilbert

WORKSHOPS

- Hands on: bring your own videos and learn how to assess with A.I.
- Learn how to assess yourself the root in a few minutes



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Speakers

 J. BAHM (Belgium)
 D. BINAGHI (Germany)
 B. BATTISTON (Italy)
 K. CASANAS (Spain)
 Ch. EGLES (France)
 J.N. GOUBIER (France)

 Ch. HEINEN (Germany)
 N. FELICI (Italy)
 F. FITOUSSI (France)
 C. LECLERCQ (France)
 A. LIM (Singapore)
 M. MERLE (Luxemburg)

 S. RUSSO (USA)
 M. SOCOLOVSKY (Argentina)
 C. SYMONETTE (Canada)
 S. WANG (China)
 QT. ZHU (China)