Neurobehavioral Outcomes in Hemispherectomy: Current Status and New Approaches

October 20–21, 2008
National Institutes of Health

Chairs:
Amir Gandjbakhche, Ph.D., NICHD
Jordan Grafman, Ph.D., NINDS

Monday, October 20, 2008

Hemispherectomy – Introduction and Challenges
Building 31 – 6C Room 7
Session Chair: Jordan Grafman, Ph.D.

8:15 – 8:30 Introductory Remarks – Jordan Grafman, Ph.D.
8:30 – 9:15 Maurice Ptito, Ph.D.
Effects of Perinatal Hemispherectomy in Monkeys (Aethiops Sabeus)
9:15 – 10:00 Jason Brandt, Ph.D.
Cognitive Neuropsychological Effects of Cerebral Hemispherectomy
10:00 – 10:45 Discussion
10:45 – 11:00 Coffee Break
11:00 – 11:45 Alain Ptito, Ph.D.
Neural Substrates of Blindsight in Hemispherectomized Subjects
11:45 – 12:15 Discussion
12:15 – 1:00 Lunch Break
1:00 – 1:45 Harry Chugani, M.D.
Cerebral Hemispherectomy in Children: Clinical Considerations and Neuroimaging Perspectives
1:45 – 2:30 Faraneh Khadem, Ph.D.
Speech and Language in the Isolated Hemisphere
2:30 – 3:15 Discussion
3:15 – 3:30 Coffee Break
3:30 – 4:15 Maryse Lassonde, Ph.D.
Tactile and Auditory Functions in Hemispherectomized Patients
4:15 – 5:00 Open Discussion
Tuesday, October 21, 2008

Optical Imaging – Introduction and Challenges for Use With Hemispherectomy Patients
Building 10 – Hartfield 2 – 3330
Session Chair: Amir Gandjbakhche, Ph.D.

8:30 – 8:45 Introductory Remarks – Amir Gandjbakhche, Ph.D.
8:45 – 9:15 Joe Culver, Ph.D.
    Mapping Human Brain Function With Light
9:15 – 9:45 Randall Barbour, Ph.D.
    An Integrated Methodological Framework for fNIRS Imaging
9:45 – 10:15 Sergio Fantini, Ph.D.
    Functional Near-Infrared Spectroscopy (NIRS): Co-Registration with fMRI and Prospects for the Assessment of Mental Workload
10:15 – 10:30 Coffee Break
10:30 – 11:00 Juliette Selb, Ph.D.
    Clinical Applications of Near-Infrared Spectroscopy to Cerebral Monitoring and Imaging
11:00 – 11:30 Jason Riley, Ph.D.
    Optical Imaging in the Hemispherectomy—The Effects and Modeling of Clear Regions
11:30 – 12:00 Discussion