

Draft II

**Human Spinal Cord Injury - New and
emerging approach to treatment -**

**Workshop held at the Ministry for Foreign Affairs in Iceland,
Rauðarástígur 25, Reykjavík.
May 31st - June 2nd 2001**

Co-sponsored by:

Ministry of Health
and Social Security,
Iceland

The World Health
Organization
(WHO)

Chairman: Professor Harry S. Goldsmith M.D.

May 31

18:00

**Reception by the Mayor of Reykjavík. At Höfði
Borgartún, Reykjavík.**

June 1

8:30 - 8:40

Welcome.

8:40 - 8:50

Mrs. Vigdís Finnbogadóttir President of Iceland

1980-1996, Goodwill Ambassador of the UN. **Spinal Cord Injury and Human Rights.**

8:50 - 9:05

Laurance Johnston PhD, Past Director, Spinal Cord Research and Education Foundation, USA. **Beyond the Banks of the Mainstream: Alternative and Complementary Medicine for Spinal Cord Injury.**

9:05 – 9:10

Questions

Basic Science

9:10-9:25

John McDonald III, MD, PhD, Assistant Professor, Washington University School of Medicine and Barnes-Jewish Hospital, USA. **Spinal Cord Repair: Double Therapeutics.**

9:25 – 9:30

Questions

9:30 – 9:45

Prof. Paul Reier PhD, University of Florida, USA. **Gray Matter Repair in the Injured Spinal Cord: From Fetal Tissue to a Neuronally Committed Cell Line.**

9:45-9:50

Questions

9:50 – 10:05

Semion Rochkind M.D., Ph.D, Tel Aviv University, Israel. **Spinal cord Reconstruction Using Cultured on Microcarriers Embryonal Nerve Cells Embedded in Hyaluronic Acid laminin Gel Followed by Postoperative Low Laser Treatment.**

10:05–10:10

Questions

10:10 – 10:45

Coffee

None Surgical Technique

10:45 – 11:00 Albert Bohbot, Independent Researcher in Neurosciences, France.

Laserpuncture for the Treatment of Spinal Cord Injury.

11:00 – 11:05 Questions

11:05 - 11:20 Prof. Margaret Naeser PhD, Boston University School of Medicine,

Boston, USA. **Acupuncture and Laser Acupuncture to Reduce Symptom Severity in Spinal Cord Injury.**

11:20 – 11:25

Questions

Electrical and Orthopaedic Advances

11:25-11:40 Prof. Jack Edwards Ph.D., MSc, BSc, FRSA,
University of Salford,

**U.K. Taking Stock of the Present Clinical Situation for
Effective Upright Mobility of People with Paraplegia.**

11:40-11:45

Questions

11:45-12:00

Maurizio Ferrarin Ph.D, Dr.Eng., Bioengineering

**Centre, Don Carlo Gnocchi Foundation Polytechnic of
Milan, Milan, Italy. Biomechanics applied to Orthotics and
Functional Electrical Stimulation Systems for Motor Recovery of
persons with Paraplegia.**

12:00-12:0

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Question

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12:05-12:25

Prof. Anatoly Vitenson M.D., Ph.D., and Kera Petrushanskaya Ph.D., Central Research Institute, Moscow, Russia. **Restorative Treatment in Patients with Consequences of Injury of the Spine and Spinal Cord with the help of Phase Electricial Stimulation of Muscles during Walking.**

12:25-12:30

Questions

12:30-14:00 Lunch

14:00-14:15 Prof. Michael W Keith M.D., Case Western Reserve University, USA.
Advanced Surgery and Neuroprostheses for Restoration of Tetraplegic Hand Function.

14:15-14:20

Questions

14:20-14:35 Nick Donaldson Ph.D. University College, London, U.K.
Implanted Stimulators of Paralysed Leg Muscles:Where to Place the Electrodes.

14:35-14:4

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Question

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14:40-14:55 Antony Tromans M.D., Ph.D, Duke of Cornwall Spinal Treatment

Centre, Salisbury,U.K. **Electrical Stimulation in Clinical Practice and its Future Development and Limitations.**

14:55-15:00

Questions

Treatment Possibilities and
Rehabilitation

15:00-15:15 Prof.Jack de la Torre, M.D.,Ph.D,
University of California, San Diego,

USA. **Treatment Approaches to Acute and Chronic Spinal Cord Injury** in Humans.

15:15-15:20

Questions

15:20-15:35

Anders Holtz M.D., Ph.D, University of Uppsala, Sweden. **Non Surgical and Surgical Treatment Possibilities Following Acute Spinal Cord Injury.**

15:35-15:40

Questions

15:40-16:15

Coffee

16:15-16:30 Arnie Fonseca, Jr, MS, Exercise Physiologist,
Neurostrength Physical

Therapy and Conditioning, Inc, USA. **The Role of
Aggressive Therapeutic Exercise with Spinal Cord Injured
Patients.**

16:30-16:35

Questions

16:35-16:50 Anba Soopramanien M.D.Ph.D, Duke of Cornwall
Spinal Treatment

Centre, Salisbury, U.K. **Spinal Cord Injury in the
Developing World.**

16:50-16:55

Questions

18:00

A Trip to the Blue Lagoon and Dinner.

June 2

Surgical Approaches

8:30-8:45

Prof. Tarcisio Barros M.D.Ph.D, University of Sao Paulo, Brazil.

**Peripheral Nerve Bridge to Spinal Cord
Injury in Humans.**

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8:45-8:50

Questions

8:50-9:05

Prof. Giorgio Brunelli M.D.Ph.D, University of Brescia, Italy **Reinnervation of Hip Muscles by CNS-PNS Connection and Ulnar Transfer in Paraplegics.**

9:05-9:10

Questions

9:10-9:25

Thomas Carlstedt M.D.Ph.D, Royal National Orthopaedic Hospital, Stanmore U.K. **Recovery of Function due to Surgical Treatment of the Longitudinal Spinal Cord Injury in Man.**

9:25-9:30

9:30-9:45

Questions Prof. Zhang Shao Prof. Zhang Shaocheng M.D., Ph.D, Military University of Shanghai, China. **Functional Reconstruction of Pheripheral Nerves in Paraplegia.**

9:45-9:50

Questions

10:00-10:30

Coffee

10:30-10:50

Prof. Georgie Stepanov M.D.Ph.D, Central Institute of Traumatology and Orthopaedics, Moscow Russia.

Revascularization of the Spinal Cord with Application of the Microsurgery Technique in Traumatological Injuries.

10:50-10:55 **Questions** 10:55-11:15 Hernando Rafael M.D. Universidad Nacional Autonoma de Mexico, Mexico

Omentum Transplantation to Human Spinal Cord.

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11:15-11:20

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Questions

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11:20-11:35

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Fernando Ramirez M.D. and Prof. Carlos Romero Gaytan M.D. International Spinal Cord Regeneration Center Mexico. **The use of Xenotransplants in 45 Patients Treated for the Sequela of Traumatic Spinal Cord Injury.**

11:35-11:40

Questions.

11:40-11:55 Prof. Harry S. Goldsmith, M.D., University of Nevada, USA.

Omentum Transplantation to Human Spinal Cord.

11:55-12:00

Questions

Basic Science and Research Opportunity

12:00-12:15

Evan Snyder M.D.,Ph.D, Harvard Medical School, USA. **Might Stem Cells Offer a new Therapeutic Approach to Spinal Cord Dysfunction.**

12:15-12:20

Questions

12:20-12:30 Ralph Nitkin Ph.D, National Institute of Health, USA.

Research Opportunity at NIH.

12:30-12:35

Questions

12:35-14:00 Lunch

14:00-17:00 (incl.coffee)

Panel Discussion

Recommendations for Improving Treatment of Spinal Cord Injuries within International Public Health Context.

**Chairman: Prof. Harry S.
Goldsmith M.D**

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Gro Harlem Brundtland M.D, Director of WHO or another High Ranking Official of WHO. Ralph Nitkin, Ph.D., National Institute of Health, USA. Lára Margrét Ragnarsdóttir, M.P., Council of Europe, Strasbourg, Parliamentary Assembly. Laurance Johnston, Ph.D., Alternative and Complementary Medicine. Prof.Elías Olafsson, M.D.Ph.D., Ministry of Health in Iceland.

17:00

Closure

19:00

Dinner at the Pearl Restaurant.