Stroke Conference
Third European Stroke Conference
May 26-28, 1994, Stockholm, Sweden

Selected Abstracts

KAKGEK
The European Stroke Conference

is supported by The European Stroke Council The American Academy of Neurology The Scandinavian Society for Cerebrovascular Diseases
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Third European Stroke Conference

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General Information

Time and Place
The 3rd European Stroke Conference will take place in Stockholm, Sweden, on May 26-28, 1994. Conference venue is the City Conference Centre, Barnhusgatan 12-14, Stockholm.

Conference Secretariat
The conference Secretariat is located at the City Conference Centre, Stockholm. The Secretariat answers questions such as registrations, hotel bookings, social events and post congress tour. Subject to availability, tickets for various events and tour may be obtained at the Secretariat.

The Secretariat will be open:
- Wednesday, May 25, 12.00-19.00
- Thursday, May 26, 08.00-17.30
- Friday, May 27, 08.00-17.30
- Saturday, May 28, 08.00-17.30

Administrative Secretariat
All matters regarding registration, hotel bookings, social events and general information will be handled through Congrex.

Before and after the Conference

<table>
<thead>
<tr>
<th>Congrex</th>
<th>City Conference Centre</th>
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<tr>
<td>c/oESC'94</td>
<td>c/oESC'94</td>
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<tr>
<td>S-114 86 Stockholm (Sweden)</td>
<td>Barnhusgatan 12-14</td>
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<tr>
<td>Tel: +46-8-612 69 00 Fax: +46-8-612 62</td>
<td>PO Box 70471</td>
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During the Conference

<table>
<thead>
<tr>
<th>Congrex</th>
<th>City Conference Centre</th>
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<tr>
<td>S-107 26 Stockholm (Sweden)</td>
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<tr>
<td>Tel: +46-8-7916800 Fax: +46-8-107921</td>
<td>Telex: 16949 KreconS</td>
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Social Programme for Delegates and Accompanying Persons

Wednesday, May 25, 16.45-18.15
Introduction to Stockholm
The best way to get to know a city in a short time is to go on a sightseeing tour by bus. While passing well-known buildings, museums and parks, your guide can advise you on shopping, good restaurants and entertainment. The tour starts at the City Conference Center and ends at Sergei Plaza Hotel in time for the Welcome Reception. Price per person: SEK 145.

Wednesday, May 25, 18.30
Welcome Reception
To welcome all participants to Stockholm and to the Third European Stroke Conference a Welcome Reception is being held at the Sergei Plaza Hotel.

Thursday, May 26, 19.00-20.30
City Hall of Stockholm
A buffet dinner will be given in the City Hall by invitation of the City of Stockholm and the Stockholm County Council.

Friday, May 27, 19.30
Conference Dinner
The Conference Dinner will be held in the beautiful Winter Garden at the Grand Hotel. The dinner is partly sponsored by the Conference. Price per person: SEK 300.

Registration
If you have not registered already, please contact Congrex for registration form.

Registration Fees
Registration fee after February 25: SEK 3,000
Registration fee on site: SEK 3,500
Accompanying person's fee: SEK 650

Transfer from and to Arlanda Airport to the centre of Stockholm
Buses leave from Arlanda Airport every 10-15 min for the City Terminal in central Stockholm. The bus ride takes 45 min and costs approximately SEK 50:-.
You will find taxis just outside the Arrival Hall at the airport. Please observe that taxi fares may differ substantially.
The City Conference Centre is located in the City Centre within 10 min walk from all Conference Hotels.

Disclaimer
The Organizing Committee and Congrex (Sweden) AB accept no liability for injuries/losses of whatever nature incurred by participants and/or accompanying persons, nor for loss or damage to their luggage and/or personal belongings.

VAT Refund Conditions
Swedish VAT, currently 12,21 and 25%, may be repaid to foreign enterprises except banks, insurance companies and institutions providing health care. Please contact the Conference Secretariat (Congrex) in order to obtain detailed information regarding the refund conditions.

Professional Conference Organizer
Congrex (Sweden) AB has been appointed as Professional Conference Organizer. Congrex Global System is an international group of Professional Conference management Companies with offices in Europe, North America, Latin America and Asia Pacific.
Post Conference Tour

Sunday, May 29 to Wednesday, June 1
Post Conference Tour to St. Petersburg. Please contact Congrex if interested.

Social Programme for Accompanying Persons

Thursday, May 26, 09.30-14.00
*Millesgården, Vasa Museum and Lunch*
This tour will take you to two of the most visited museums in Stockholm, Millesgarden and Vasa Museum. The tour starts and ends at the City Conference Center. Price per person: SEK 450.

Friday, May 27, 13.30-16.30
*Drottningholm Palace*
Drottningholm Palace, with its magnificent park, is today the residence of the Royal Family. The Court Theatre is one of the oldest in the world still being used today. Coffee/tea will be served during the tour. The tour starts and ends at the City Conference Centre. Included in the accompanying persons* fee.

Saturday, May 28, 10.30-12.00
*The Old Town*
A guided walk in the Old Town, the island where Stockholm was originally built in the beginning of the 13th century. The tour includes a visit to the Stockholm Cathedral, as well as the Royal Palace where the King and Queen still hold their official receptions and banquets. The tour starts in the Old Town at Slottsbacken, by the Obelisk. Price per person: SEK 120.
Third European Stroke Conference

Scientific Program

Thursday, May 26

10.00-10.10
Welcome Address
N.G. Wahlgren (Stockholm, Sweden)
10.10-10.25
Opening of the Conference by Mr. Bo Konberg, Minister of Health

10.30-12.30
European-American Symposium: 'Silent Cerebral Ischaemia'
Chairpersons: A. Culebras (Syracuse, N.Y., USA), M. Hennerici (Mannheim, FRG)
10.30
Introduction
A. Culebras (Syracuse, N.Y., USA)
10.40
Silent Brain Infarction: The Stroke Data Bank and Framingham Data
J.P. Mohr (New York, N.Y., USA)
10.55
Silent Ischaemia in Patients with Carotid Stenosis
J. Norris (Toronto, Canada)
11.10
Silent Brain Infarction: Data from the European Atrial Fibrillation Trial
P. Koudstaal (Rotterdam, The Netherlands)
11.25
The Significance of High Intensity Transcranial Signals (HITS) for the Development of Silent Cerebral Ischaemia
W. Rautenberg (Mannheim, FRG)
11.40
Silent Infarcts in Patients with Ischaemic Stroke Are Related to Age and Size of the Left Atrium
F. Mounier-Vehier (Lille, France)
11.50
Silent Brain Infarction in Patients v$h Stroke
C. Gandolfi (Genoa, Italy)
12.00
Discussion and Conclusion
M. Hennerici (Mannheim, FRG)

12.30-14.30
Poster Session 1 (1-57)
Chairpersons: H.P. Adams, Jr. (Iowa City, Iowa, USA), M. Pessin (Boston, Mass., USA), D. Inzitari (Florence, Italy), T. Sawada (Osaka, Japan)

Lunch

14.30-15.30
Platform Session 1: Cerebral Blood Flow and Haemodynamics
Chairpersons: J.C. Baron (Caen, France), C. Fieschi (Rome, Italy)

Positron Emission Tomography in Post-Infarction Seizures
J. De Reuck (Gent, Belgium)

Crossed Cerebellar Diaschisis and Brain Recovery after Stroke
Quantification of Blood Flow Velocity and Volume Flow in Brain-Supplying Arteries with MR Techniques in Normal Subjects and Patients with Carotid Artery Disease
W. Neff (Mannheim, FRG)

Tissular Haemodynamics and Oxygen Metabolism in Early Post-Ischemic Hypoperfusion (EPIH): A PET Study in Humans
G. Marchal (Caen, France)

Transient Cerebral Circulatory Arrest Coincides with Fainting in Cough Syncope

H. Mattle (Berne, Switzerland)
15.30-17.10
Platform Session II: Clinical I
Chairpersons: J.L. Mas (Paris, France), R. Nyberg-Hansen (Oslo, Norway)

Validation of a Clinical Classification for Subtypes of Cerebral Infarction
C. Anderson (Adelaide, Australia)
SEfloe Typology of the Posterior Circulation
J. Rother (Mannheim, FRG)
Small Infarcts in the Centrum Ovale: Presumed Mechanism
D. Leys (Lille, France)

Dissection of Cervical Arteries: Long-Term Course
D. Leys (Lille, France)

Cerebral Infarction Topography in Carotid Artery Dissection
W. Steinke (Mannheim, FRG)
Vertebral Artery Dissection: Magnetic Resonance Imaging and Magnetic Resonance Angiography
TheSiology and Prognosis of Multiple TIAs
M. Crespo (Lisbon, Portugal)
71

Associated Movements in Stroke Patients and Normal Controls
M. Krams (Essen, FRG)
72

17.10-17.30
Coffee Break

17.30-18.30
Platform Session III: Clinical II
Chairpersons: J. Ferro (Lisbon, Portugal), M. Kaste (Helsinki, Finland)

Risk Factors for Clinically Significant dntitive Decline after Stroke
D.W. Desmond (New York, N.Y., USA)
73

Post-Stroke Depression and Lesion Location
E. Stewart-Wynne (Perth, Australia)
74

The Clinical Features of Post-Stroke Depression: A Controlled Study
V. Murray (Danderyd, Sweden)
75

Predictors and Outcome of Progressing Ischaemic Stroke
D. Toni (Rome, Italy)
76

Plasma Homocysteine in Ischaemic Stroke
A. Lindgren (Lund, Sweden) 77

Friday, May 27

8.15-10.45
Symposium II: ‘Stroke Prevention’ Sponsored by Sanofi-Winthrop
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<td>Opening Remarks</td>
<td>J. Bogousslavsky (Lausanne, Switzerland)</td>
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<td>8.20</td>
<td>Update in the Diagnostic Methods for the Assessments of Cervical and Cerebral Arteriopathy</td>
<td>M. Hennerici (Mannheim, FRG)</td>
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<td>8.40</td>
<td><strong>HemJiving</strong> Thrombotic and Embolic Potential of Atherosclerotic</td>
<td>P.-J. Touboul (Paris, France)</td>
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<td>9.00</td>
<td>Prognosis and Management of Asymptomatic Carotid</td>
<td>J.F. Toole (Winston-Salem, Mass., USA)</td>
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<tr>
<td>9.15</td>
<td>Discussion</td>
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<td>9.30</td>
<td>Prophylactic Neuroprotection</td>
<td>M. Fisher (Worcester, Mass., USA)</td>
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<td>9.50</td>
<td>Anticoagulant and Antiplatelet Therapy in Cardioembolic</td>
<td>G. Boysen (Copenhagen, Denmark)</td>
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<td>10.10</td>
<td>Prevention of Cerebrovascular Ischaemic Events with Antiplatelet Drugs. Who Benefits Most?</td>
<td>J.W. Harbison (Richmond, Va., USA)</td>
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<td>10.25</td>
<td>Discussion</td>
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<td>10.40</td>
<td>Concluding Remarks</td>
<td>H.P. Adams, Jr. (Iowa City, Iowa, USA)</td>
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<td>10.45-11.15</td>
<td>Coffee Break</td>
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11.15-12.30
Platform Session IV: Diagnosis and Ultrasound
Chairpersons: F. Aichner (Innsbruck, Austria), B. Norrving (Lund, Sweden)

Observer Variability and Equivalence of Three Methods of Measuring Carotid Stenosis on 1,001 Angiograms
P.M. Rothwell (Edinburgh, UK)
Abstract No.

What Causes Borderzone Brain Infarcts?
R.M.M. Hupperts (Maastricht, The Netherlands)

Prediction of Pathogenesis from the Pattern of Cerebral Ischaemia
M. Daffertshofer (Mannheim, FRG)

Automatic Cerebral Embolus Detection
D. Russell (Oslo, Norway)

Asymptomatic Cerebral Embolic Signals in Carotid Artery Stenosis
H.S. Markus (London, UK)

MRI Evidence of Small Vessel Disease as a Frequent Precursor of Intracerebral Haemorrhage (ICH)
F. Fazekas (Graz, Austria)

Poster Session II (1-57)
Chairpersons: N. Bornstein (Tel Aviv, Isreal), G. Boysen (Copenhagen, Denmark), M. Fisher (Worcester, Mass., USA), P.O. Wester (Umea, Sweden)
12.30-14.00
Lunch
14.00-16.00
Platform Session V
Chairpersons: M. Britton (Stockholm, Sweden), S. Ricci (Perugia, Italy)

Echocardiography of Patients with TIA/Ischaemic Stroke
C. Hornig (Giessen, FRG) Ischaemic Stroke in Patients with Known Heart Disease
IX. Henriques (Lausanne, Switzerland)

Risk of Recurrent Stroke in Patients with Atrial Septal Aneurysm or Patent Foramen Ovale: A French Multicentric Study
M. Zuber (Paris, France)

Risk of Cerebral Ischaemia in Migrainous Patients: A Case-Control Study
A. Carolei (L'Aquila, Italy)

Alcohol Consumption and Occlusive Cerebrovascular Disease
H. Palomaki (Helsinki, Finland)

Hypertension, Diabetes Mellitus and Cardiac Disease as Determinants of Multiple Lacunar Infarcts
H. Mast (New York, N.Y., USA)

Incidence and Causes of Strokes during Pregnancy and Early Puerperium in the Region of l'he de France
J.L. Mas (Paris, France)

Abnormal Interatrial Septum with Stroke: Recurrence Risk and Late Prognosis in 103 Patients
S. Garazi (Lausanne, Switzerland)

Long-Term Follow-Up of Young Adults with Ischaemic Stroke
L.J. Kapelle (Utrecht, The Netherlands)

Management of Stroke. A Multinational Comparison of 21 Populations in 11 Countries. WHO MONICA Project
K. Asplund (Umea, Sweden)

Symposium III: 'Thrombosis and Other Strategies in Acute Ischaemic Stroke Treatment'
Chairpersons: N.G. Wahlgren (Stockholm, Sweden), W. Hacke (Heidelberg, FRG)
16.00
Opening Remarks
N.G. Wahlgren (Stockholm, Sweden)
16.05
The Natural Course of Acute Cerebral Artery Occlusion -Thromboembolism and Thrombolysis
P.M. Sandset (Oslo, Norway)
16.20
Thrombolysis in Acute Ischaemic Stroke - An Update
W. Hacke (Heidelberg, FRG)
16.35
How Do We Get Thrombolysis Candidates to Hospital in Time?
T. Brott (Cincinnati, Ohio, USA)
16.50
Discussion
17.00
Cytoprotective Strategies in Acute Ischaemic Stroke
N.G. Wahlgren (Stockholm, Sweden)
17.15 Antithrombotic Treatment in Acute Ischaemic Stroke
P. Sandercock (Edinburgh, UK)

17.30 Systematic Review of Treatment for Acute Stroke - The Cochrane Collaboration
C.P. Warlow (Edinburgh, UK)

17.45 Discussion

18.00 Concluding Remarks
W. Hacke (Heidelberg, FRG)

18.05-18.20 Administrative Session of the European Stroke Conference
Saturday, May 28 Poster Session III (1-59)
Chairpersons: J.F. Toole (Winston-Salem, N.C., USA), J. Matias-Guiu (Alicante, Spain), J. Sivenius (Kuopio, Finland), H. Mattle (Berne, Switzerland)

9.00-10.00
Chairpersons: M. Hommel (Grenoble, France), J.L. De Reuck (Gent, Belgium)

Specialist Stroke Unit Care Improves Survival and Functional Outcomes: A Statistical Overview
P. Langhorne (Edinburgh, UK)
Treatment in an Acute Stroke Unit - Which Aspects Are Important?
B. Indredavik (Trondheim, Norway)

Low or High Dose Aspirin: Equi-Efficacy in Secondary Prevention
A. Algra (Utrecht, The Netherlands)

53 Carotid Angioplasties: Results, Complications, Follow-Up
B. Eckert (Hamburg, FRG)

Carotid Angioplasty: Haemodynamic and Embolic Consequences
H. Markus (London, UK)

10.00-10.30
Coffee Break

10.30-11.45
Platform Session VII: Therapy II
Chairpersons: J.L. Martí-Vilalta (Barcelona, Spain), J. van Gijn (Utrecht, The Netherlands)

A Randomized Trial of Heparin Therapy in Acute Ischaemic Stroke: First Results
T. Crepin-Leblond (Besançon, France)

After Successful Endarterectomy: Should a Contralateral Carotid Stenosis be Operated on as Well?
D. Dippel (Rotterdam, The Netherlands)

Can We Identify the Patients with Most to Gain and Least to Lose from Endarterectomy?
P. Rothwell (Edinburgh, UK)

Effect of Lovastatin on Early Carotid Atherosclerosis
H.P. Adams, Jr. (Iowa City, Iowa, USA)

Preconditions for Clinically Effective Recanalization of the Middle Cerebral Artery
R. von Kummer (Heidelberg, FRG)

Intravenous Nimodipine West European Stroke Trial (INWEST) of Nimodipine in the Treatment of Acute Ischaemic Stroke
N.G. Wahlgren (Stockholm, Sweden)

11.45-13.00
Symposium IV: 'Round Table on the Assessment of Stroke'
Sponsored by an educational grant from Janssen
Chairpersons: J.M. Orgogozo (Bordeaux, France), G.L. Lenzi (Rome, Italy)

The Concept of Impairment, Disability and Handicap
J.M. Orgogozo (Bordeaux, France)

Neurological Scales in the Assessment of Cerebral Infarction
J. De Keyser (Brussels, Belgium)

Quantification of Disability after Cerebral Infarction
G. Grimby (Gothenburg, Sweden)

Correlations between Impairment and Disability Scales in the Outcome of Cerebral Infarction
R. De Haan (Amsterdam, The Netherlands)
Discussion
C. Diener (Essen, FRG), L. Candelise (Milan, Italy), J. van Gijn (Utrecht, The Netherlands), C.P. Warlow (Edinburgh, UK), G. Demeurisse (Brussels, Belgium)
13.00-13.15
Awards Presentation

13.15-13.20
Announcement: Fourth European Stroke Conference Bordeaux, France, June 1-3, 1995
J.M. Orgogozo (Bordeaux, France)
13.20
Closing Remarks
Satellite Symposia

May 28, 13.30-14.00  ESPS 2 Working Group: Baseline Data from the European Stroke Prevention Study 2 • The ESC Session Hall
May 29-31  Epidemiology and Prevention of Stroke • Umea, Sweden

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Scientific Program