

第6回心臓血管麻酔医学会印象記

6th Annual Meeting Society of Cardiovascular Anesthesiologists

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第6回心臓血管麻酔医学会はボストン市の Copley Square に臨む Westin Hotel (写真) において、5月6日から9日まで開催された。

日本からは藤田昌雄、宮崎正夫、奥村福一郎、劔物修の各先生はじめ10名内外の方が出席された。ニューヨークで活躍しておられる渋谷欣一、丘ヤスの両先生、東大から MGH へ来ておられる稲田英一先生のお顔も見えた。

会場は約700席のイスを並べた Essex Ballroom (3F) を主会場として Janssen 記念講演、特別講演、おもなシンポジウム、総会議事等が行われ、一般演題や複数のシンポジウムを同時に行う時間

帯ではこの部屋を仕切ってイスを並べかえ、AB または ABC など2ないし3会場として使っていた。このほか 100m² 前後の隣接した一室をポスターセッションに当てていた。機械や薬品の展示場は1階上の4階にあり、エスカレーターで往復できた。主会場とはほぼ同程度の広さであった。展示会場は展示のほか、opening reception はじめいくつかのレセプション、会員ならば誰でも自由に利用できる朝食、昼食、および午前と午後のお茶のためのスペースとしても使用された。

全体の設営は昨年の San Diego における第5回総会とよく似た感じであった。ひとつ感心したことは、横長の作りである主会場に合わせてスラ

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イド用スクリーンが3個所(左・中・右)に設けられ、同じ映像が3個所同時に映写されたことであった。どの席からもよく見えるようにとの配慮と想法が、なかなかよかった。ただし、演者がスライドを指せるのは1個所だけなので、このあたりはまだ工夫の余地があるようである。

プログラムは昨年にならって末尾に掲載させて頂いたのでご参照願えれば幸いである。

5月7日朝から正規のプログラムに入った。

まず Joel A. Kaplan 会長の挨拶があり、次いで Paul G. Barash プログラム委員長(次期会長でもある)から日程やプログラムの概要紹介があった後、本題に入った。

今年あまり exciting な内容はなさそうだとの前評判もあったが、実際に聞いてみるとやはり心血管系手術の多いアメリカの学会だけに、臨床経験の豊富さにはすばらしいものがあるし、これを背景とした研究活動にも重厚なものが多かった。Fentanyl の約10倍の potency を持つ sufentanyl が臨床に導入されているようだが、fentanyl との比較や ketamine-diazepam 麻酔との対比も一般演題やシンポジウムに登場した。

例年継続して取り上げられていると思われるものに、心臓麻酔開業の経済問題、ユーザー側から見た使用経験(機器、材料等)、文献紹介、麻酔管理上のジレンマ、麻酔症例の検討などがあるが、今回もなかなかおもしろかった。基本的な問題に継続的な取り組み方をする行き方はわれわれも大いに参考にすべきだろう。除細動器、超低体温法、心肺蘇生法、心筋代謝、体外循環、カルシウム拮抗薬などもそれぞれシンポジウムで取り上げられた。

5月8日、9日の両日火災報知機が鳴り、ホテル側のアナウンスのため講演が何度か中断するハプニングがあった。Westin Hotel は最近火事に遭ったとのことで神経質になっていたのか、実に真剣なものであった。幸い何事もなくてすんだ。

Society of Cardiovascular Anesthesiologists (SCA) と循環制御研究会との交流を進めてはという話が出たのは1昨年(1982年)のことであった。循環制御研究会(SCC)の中に国際交流委員会(藤田昌雄委員長)が設けられ、この問題を検討することになった。昨年の第4回循環制御研究会(田

中亮会長)評議員会および総会において、SCA と SCC 間の joint meeting を近い将来わが国で開催する方向で努力することが承認された。その後1度国際交流委員会が開かれたが、会(joint meeting)の性格に関する議論があって、3~4年以内にやろうという以上の具体的結論は出なかったと記憶する。この件についてのSCA側との協議も藤田委員長および私のポストンにおける大きな仕事のひとつであった。

5月7日12:45から Westin Hotel 7F の Great republican Room で SCA の国際問題委員会(International Affairs Committee: IAC)が約1時間余にわたって開かれた。藤田昌雄教授と私、それにニューヨーク医大の渋谷欣一教授は循環制御研究会員であるとともにこの IAC の正規のメンバーでもあるので出席した。また、第6回循環制御研究会長であり、第33回日本麻酔学会会長であり、WFSA 副会長もしておられる宮崎正夫教授にもオブザーバーとして出席して頂いた。

結論から言えば、SCAの国際問題委員会(IAC)としては、SCA と SCC の交流について若干の検討課題があるとしても、とにかく、① 第1回 joint meeting を1987の適当な時期(たとえば8~9月)に東京または京都で開催する(SCC が主催)、② joint meeting の開催に当って SCA と SCC は交互に主催者(host)になり合うとともに各委員会にはお互いに人を出し合う、③ 第2回の joint meeting は第1回開催の4年後米国で開催し以後4年間隔で交互に開催する、④ 開催費用についての援助はお互いにしないのを原則とする、⑤ 第1回 joint meeting の名称は Ist Pan-Pacific Congress of Cardiovascular Anesthesiologists を候補とする、などを骨子とする基本的了解ができ、今後各レベルでの会議を経て具体策を練ることになった。

国際交流の話はもうひとつ、アメリカとヨーロッパの間でも進められているが、ヨーロッパ各国の国情が異なることもあって、とくにどこが主催するかについての足並が揃わず、結局1986年にSCA がヨーロッパへ出かけて行って(SCAがhostになって?)合同学会を開くことになった。候補地としてはオーストリアのウィーンが最有力だが、今会期中にヨーロッパから出ている IAC の委員

が協議して結論を出すことになった。結果についてまだ聞いていない。

アルゼンチンの委員から、心臓麻酔の指導を求めている病院がチリにあるが、数週間出張して教えてくれる人はいないかとの発言があった。ヨーロッパとくにドイツからの委員が大いに興味を示していた。

国際交流については、どことも一筋縄ではいかないめんどろな問題を抱えているようだが、広い視野と大らかな心でとにかく前へ進むことを考えるのが基本でなければならないと感じた。

折しもボストンは冷たい長雨が続いた後の若葉が一斉に萌え出した時期に当たり、桜も満開であった。New England Medical Center に勤務する友人は私どもが爛漫の春と好天とを連れて来たよ

うだと笑った。

われわれの感覚からすると何でもジャンボサイズのアメリカだが、とくにレストランで出てくる食物についてその感を強くした。有名な sea food の店 Pier 4 で友人と会食したさい、メニューに Sashimi というのがあったので日本流の刺身を想像しながら注文したところ、大皿に山盛りで運ばれて来て驚嘆した。味はすばらしいのだが、他に 1, 2 注文したのもも大盛りで、肝腎の 1 kg のロブスターに取りかかる前にほぼ満腹してしまう有様であった。メニュー上の料理名と値段だけを見て注文するととんでもないことになることがあるわけである。

ジェットボケもあって些か脱線したこともあったが、ボストンの 1 週間はなかなか楽しかった。



SOCIETY OF CARDIOVASCULAR ANESTHESIOLOGISTS

6th ANNUAL MEETING

May 6-9, 1984 • Boston, Massachusetts

Program

Sunday, May 6, 1984

1:00 pm-8:00 pm

Registration

Essex Foyer

6:00 pm-8:00 pm

Opening Reception at the Exhibits

America Ballroom

Monday, May 7, 1984

7:00 am-5:30 pm

Registration

Essex Foyer

7:00 am-8:00 am

Continental Breakfast

Essex Foyer

8:00am-12:00 n

Plenary Session

Essex Ballroom

8:00 Welcome

- Joel Kaplan, M.D., President
Paul G. Barash, M.D., Chairman, Program
Committee
- 8:15 CONTROVERSIES IN THE MANAGEMENT OF
VALVULAR HEART DISEASE
John Waller, M.D., Moderator
IV Induction: Sufentanil vs. Ketamine
James G. Bovill, M.D. (p.22)
Anthony Ivankovich, M.D. (p.24)
preoperative Evaluation: Echo vs. Cath
Charles R. McKay, M.D. (p.26)
Martin G. St. John Sutton, M.D. (p.28)
- 10:00 Coffee at Exhibits
America Ballroom
- 10:30 ECONOMICS AND THE PRACTICE OF
CARDIAC ANESTHESIA (p.30)
Edward Lowenstein, M.D., Moderator
J. Robert Buchanan, M.D.
Fawzy Estafanous, M.D.
James F. Arens, M.D.
- 12:00 n-12:30 pm General Assembly &
Business Meeting
Essex Ballroom
- 12:30 pm-2:00 pm Lunch at the Exhibits
America Ballroom
- 12:30 pm-2:00 pm Poster Exhibits
(Listing on p.15)
- 2:00 pm-4:00 pm Session A
Essex North
Staffordshire Room
- Scientific Papers
Moderator
Norig Ellison, M.D.
Discussants
Peter Duke, M.D.
J. Kent Garman, M.D.
- 2:00 Resident Research Award
Detection of Intraoperative Myocardial Ischemia
in High Risk Patients: ECG verses 2-D
Transesophageal Echocardiography (p.77)
J.S. Smith, D. Benefiel, F.W. Lurz, M.F.
Roizen, W. Shapiro, B. Byrd, A. Bouchard,
N.B. Schiller, M.D. Cahalan
- 2:15 Resident Research Award
A Controlled Comparison of Technics for
Internal Jugular Vein Cannulation Using
Ultrasonography (p.79)
S. Metz, J.D. Horrow, I. Balcar
- 2:30 Intraoperative Monitoring of Somatosensory
Evoked Potentials of the Thoracic and
Abdominal Aortic Aneurysn (p.81)
O. Takaki, F. Okumura, Y. Kishi, H. Furuya,
N. Nakajima
- 2:45 Pulmonary and Systemic Hemodynamic

- Responses to Ketamine in Infants with Normal and Elevated Pulmonary Vascular Resistance (p.82)
P. R. Hickey, D.D. Hansen, G.M. Cramolini
- 3:00 Effects of General and Local Anesthetics on Intracellular Electrical Coupling in Heart Muscle (p.84)
J. A. Wajtczak, J.A. Kaplan
- 3:15 Adrenergic or Calcium Channel Blockade Does Not Prevent Post-Countershock Myocardial Damage (p.86)
D.M. Gaba, S. Metz, M.Maze
- 3:30 Cardiovascular Function During Isoflurane and Halothane Anesthesia with Calcium and Beta Adrenergic Blockade in Monkeys (p.88)
A. DeWolf, J. Marguez, E. Nemoto, P. Waterman, A. Bleyaerr, Y.G. Kang
- 3:45 Qualitative Evaluation of Coronary Flow During Anesthetic Induction Using Thallium-201 Perfusion Scans (p.90)
B. Kleinman, R. Henkin, A.A. El-Etr, R. Pifarre

2:00 pm-4:00 pm

Session B

Essex South

Scientific Papers

Moderator:

David Whalley, M.B.

Discussants:

Peter Sebel, M.D.

Thomas Blanck, M.D., Ph.D.

- 2:00 Anesthetic Equipotency: Morphine, Fentanyl and Halothane (p.92)
I. Kissin, C.R. Kerr
- 2:15 Hemodynamic Responses to Fentanyl or Diazepam-Fentanyl Anesthesia in Patients on Chronic Nifedipine Therapy (p.94)
G. W. Roach, C.C. Moldenhauer, C.C. Hug, Jr., J.D. Schultz, P.E. Curling
- 2:30 Effects of Diazepam and Fentanyl in Dogs Deprived of Sympathetic and Parasympathetic Tone (p.96)
J.W. Flacke, W.E. Flacke, B.C. Bloor, J. Ball, A. VanEtten
- 2:45 Comparative Pharmacokinetics of Fentanyl and Sufentanil in the First 24 Hours of Open-Heart Surgery (p.98)
M.B. Howie, D.F. Smith, T. McSweeney, K. Harrington, J. Reitz, J.F. Dasta
- 3:00 Fentanyl vs. Sufentanil: Comparison of Hemodynamic and Catecholamine Responses During Coronary Artery Surgery (p.100)
JM. Murkin, C.C. Moldenhauer, R.W. Griesemer, C.C. Hug, Jr.
- 3:15 Prospective Study of Intraoperative Awareness and Dreams with High-Dose Fentanyl-Diazepam

- Anesthesia (p.102)
K. Okamoto, S. Tan, T. Komatso, V. Kumar,
K. Kubal, K. Shibutani
- 3:30 Effect on Low Dose Fentanyl on Thiamylal or
Diazepam Induction in Patients with Ischemic
Heart Disease (p.104)
K. Shevde, D. Daneshvar, G. Gelbfish, J.N.
Cunningham, Jr., D.M. Rose, I. Jacobowitz,
P.H. Sechzer
- 3:45 Diazepam Increases Myocardial Oxygen Supply
(p.106)
J.H. Campos, J.W. Ritter, S.W. Stead, S.F.
Sullivan
- 4:00 pm-4:15 pm Coffee Break
Essex Foyer
- 4:15 pm-5:15 pm Session A
Essex North
- BASIC SCIENCE UPDATE: AGING AND THE
CARDIOVASCULAR SYSTEM
Michael Roizen, M.D., Moderator
Edward Lakatta, M.D. (p.31)
- 4:15 pm-5:15 pm Session B
Essex South
- CONSUMERS' REPORTS: PULMONARY
ARTERY CATHETERS
Alan Schwartz, M.D., Moderator
Ralph Geer, M.D. (p.33)
Charles Kopriva, M.D. (p.35)
Norman Starr, M.D. (p.36)
- 6:00 pm-8:00 pm Cocktail Reception
Essex Center
- Sponsored by Janssen Pharmaceutica, Inc.
- Tuesday, May 8, 1984
- 7:00 am-5:00 pm Registration
Essex Foyer
- 7:00 am-8:00 am Continental Breakfast
Essex Foyer
- 8:00 am-12:00 n Plenary Session
Essex Ballroom
- 8:00 LITERATURE REVIEW: 1984 (p.38)
Stephen Slogoff, M.D., Moderator
James Diaz, M.D.
Michael Durkin, M.B.B.S.
Michael Cahalan, M.D.
John Youngberg, M.D.
- 9:00 DEFIBRILLATORS
Carol Lake, M.D., Moderator (p.39)
Paula Elliott, M.D. (p.41)
Noel Lawson, M.D. (p.43)
- 10:00 Coffee at the Exhibits
America Ballroom
- 10:30 MANAGEMENT DILEMMAS (p.45)

J. Earl Wynands, M.D., Moderator
Judith Fabian, M.D.
Steven Tosone, M.D.
John Viljoen, M.D.
G. Ross Robbins, M.D.

12:00 n-1:30 pm Lunch at the Exhibits
America Ballroom
12:00 n-1:30 pm Poster Exhibits
(listing on p.15)
Staffordshire Room
1:30 pm-3:30 pm Session A
Essex North

Scientific Papers

Moderator :

Emerson Moffitt, M.D.

Discussants :

Patrick Curling, M.D.

Kevin Sanborn, M.D.

- 1:30 Attenuation of Heart Rate Response to Intubation by a New Beta-Adrenergic Blocking Drug, Esmolol (p.108)
P. G. Menkhaus, J. G. Reves, J. M. Alvis, R. B. Karp, J. K. Kirklin, G. L. Zorn
- 1:45 Difference in Sensitivity of Isolated Atrial and Ventricular Muscle to Protamine (p.110)
R. A. Caplan, J. Y. Su
- 2:00 2-Dimensional Contrast Echocardiography Can Improve Myocardial Preservation by Cardioplegic Arrest (p.112)
B. Mindich, M. Goldman, D. Thys, Z. Hillel, L. Teichholz, J. A. Kaplan
- 2:15 Halothane Cardioplegia (p.114)
E. A. Norfleet, L. S. Carter, R. A. Mueller, R. A. Kates, L. S. Saltzman
- 2:30 Physiologic Effects of Fluorocarbon Priming Solutions for Cardiopulmonary Bypass (p.116)
J. J. Stone, W. Piccione, L. D. Berrizbeitia, G. Dance, R. J. Shemin, L. H. Cohn
- 2:45 Detection of Air Bubbles by M-Mode Transesophageal Echocardiography During Heart Surgery (p.118)
Y. Oka, K. Moriwaki, Y. Hong, G. Chuculate, J. Strom, I. C. Andrews, R. W. M. Frater
- 3:00 Echocardiographic Evaluation of the Effects of Sodium Nitroprusside on Cardiac Performance in Patients Undergoing CABG (p.119)
Z. Hillel, D. Thys, M. Goldman, B. Mindich, L. Teichholz, J. A. Kaplan
- 3:15 Relationship of Regional Cerebral Blood Flow and Systemic Blood Flow During Hypothermia CPB (p.121)
A. V. Govier, J. G. Reves, R. B. Karp, G. L. Zorn, L. R. Smith, M. L. Adams

1:30 pm-3:30 pm Session B
Essex Center

Scientific Papers

Moderator:

Edward Miller, M.D.

Discussants:

Sally Teasdale, M.D.

Daniel Thys, M.D.

- 1:30 Pulmonary Vascular Responses to Moderate Changes in PaCO₂ After Cardiopulmonary Bypass (p.123)
M. Salmenpera, J. Heinonen
- 1:45 Correlation Between Lung and Plasma Angiotensin Converting Enzyme and the Hypotensive Effect of Captopril (p.125)
B. Pitt, X. Chen, R. Moalli, C.N. Gills
- 2:00 Threapeutic Use of Ketanserin (Serotonin-Antagonist) for Pre-Bypass Hypertension (p.126)
A. Barankay, J.A. Richter, E. Gob, P. Spath
- 2:15 Chronic Calcium Entry Blocker Therapy and Heart Block After Aortocoronary Bypass Grafting (p.128)
C.E. Henling, S. Slogoff, S.V.Kodali, C. Arlund
- 2:30 A Functional Comparison of PVC and Red Rubber Double-Lumen Endobronchial Tubes (p.130)
C.B. Watson, L.R. Kasik, J. Battaglini, B. Keagy, T.B. Hansen, A. Gratta
- 2:45 Right Ventricular Stroke Volume Measurement by an Intracardiac Impedance Method: Clinical Evaluation (p.132)
C.G. Millson, J.L. Waller, D.I. Bauman, D.M. Nagle, P.E. Curling
- 3:00 An Improved Technique for Contamination Reduction During Central Venous Cannulation (p.134)
D.M. Nagle, J.H. Levy, J.L. Waller, P.E. Curling
- 3:15 Pharmacokinetics of a Continuous Infusion of Alfentanil for Coronary Artery Bypass Surgery (p.136)
N.P. de Bruijn, S. de Lange, C.C. Hug

1:30 pm-3:30 pm

Session C

Scientific Papers

Moderator:

Charles Christian, MD., Ph.D.

Discussants:

Lawrence Abrams, M.D.

Leslie H. Cronau, M.D., Ph.D.

- 1:30 Shivering and Changes in Mixed Venous Oxygen Saturation After Cardiac Surgery (p.138)
J.A. Kaplan, A.v. Guffin
- 1:45 Shivering and Ventilation After Hypothermic Cardiopulmonary Bypass (p.140)

R. Sladen, D. Renaghan, J. Ashton, J. Wyner

2:00 Does Previous Coronary Artery Bypass Surgery Protect From Ischemia During Anesthesia? (p. 142)

J.E. Backofen, J.F. Schauble, K.L. Baughman, P.L. Elliott

2:15 Pancuronium Causes Myocardial Ischemia During High-Dose Fentanyl Anesthesia for Coronary Artery Bypass Grafting (p.144)

I.R. Thomson, C.L. Putnins

2:30 Hemodynamic Determinants of Myocardial Ischemia in the Presence of Coronary Artery Stenosis (p.146)

C.W. Buffington

2:45 Interobserver Reliability in the Interpretation of 2-Dimensional Transesophageal Echocardiograms (p.148)

D.J. Benefiel, B. Byrd, F.W. Lurz, P. Kremer, M.K. Cahalan, M.F. Roizen, P.N. Beaupre, J. Smith, N.B. Schiller

3:00 Evaluation of Mitral Valve Operations Using Intraoperative 2-D Contrast Echocardiography (2DCE) (p.150)

M.Goldman, B Mindich, Z. Hillel, D. Thys, N. Burgess, L. Teichholz, J. Kaplan

3:15 Optimal Postoperative Mechanical Ventilation (p.152)

P.S. Kulkarni, C. Ng, J.B. Downs

3:30 pm-3:45 pm

Coffee Break
Essex Foyer

3:45 pm-4:45 pm

Session A
Essex North

PEDIATRICS: DEEP HYPOTHERMIC CIRCULATORY ARREST—WHAT DO WE KNOW?

Paul Hickey, M.D., Moderator (p.46)
Paul N. Samuelson, M.D. (p.48)
M. Jerome Strong, M.D.

3:45 pm-4:45 pm

Session B
Essex Central

CARDIOPULMONARY RESUSCITATION

Mark Rogers, M.D., Moderator (p.50)
Richard Traystman, Ph.D. (p.54)

3:45 pm-4:45 pm

Session C
Essex South

MYOCARDIAL METABOLISM

Robert Merin, M.D., Moderator (p.56)
Wolfram Haider, M.D. (p.58)
Hans Sonntag, M.D. (p.60)

6:00 pm-8:00 pm

Cocktail Reception
Essex Ballroom

Sponsored by Eli Lilly and Company

Wednesday, May 9, 1984

7:00 am-12:00 n Registration
Essex Foyer

7:00 am-8:00 am Continental Breakfast
Essex Foyer

8:00 am-12:00 n UPDATE SERIES
Essex Ballroom

8:00 CARDIOPULMONARY BYPASS
Glen Gravlee, M.D., Moderator
Anthony Bull, M.B. (p.62)
Mr. John Meserko, CPT (p.64)
Daniel Philbin, M.D. (p.66)
Allen Ream, M.D. (p.68)

9:00 CALCIUM CHANNEL BLOCKERS
J. Gerald Reves, M.D. Moderator
Patricia Kapur, M.D. (p.70)
Robert A. Kates, M.D. (p.72)
David Torpey, M.D. (p.74)

10:00	JANSSEN ANNUAL LECTURE Introduction Joel Kaplan, M.D., President SUPPORT SYSTEMS FOR INTRACARDIAC SURGERY John Kirklin, M.D.
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11:00 ANESTHESIA GRAND ROUNDS: CASE
PRESENTATIONS
Willian Lell, M.D., Moderator
Paul Barash, M.D.
Joel, Kaplan, M.D.

Anesthetic Management of a Patient
Undergoing Myocardial Revascularization
Without Cardiopulmonary Bypass (p.154)
G. Silvay, B.P.Mindich, D. Girard, D.M.
Thys, J.A. Kaplan

Anesthetic Management for Coronary Stenotic
Saphenous Vein Graft Without Cardiopulmonary
Bypass (p.156)
P. Kalirnada, M.N. Rashud R. Peacock

Use of High-Dose Fentanyl for Mild Hypothyroid
Patient Who Underwent Coronary Artery Bypass
Graft (p.158)
T. Komatsu, V. Sanchala, R. Bhalodia, K.
Kubal, K. Shibutani, D.V. Bizzari

Poster Papers

Monday, May 7, 1984

Decreased Adrenergic Responsiveness During After Halothane Anesthesia in the Rabbit (p.160)

M. Maze, C.K. Spiss, C.M. Smith, S.J. Land
Changes in Mixed Venous Oxygen Saturation During Resection of Thoracic Aortic Aneurysm (p.162)

S.A. Shenag, P. Stevens, H. Karlberg, J. Chelly E.S. Crawford

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