

CANADIAN ANAESTHETISTS' SOCIETY

SYMPOSIUM

Sunday, June 18, 1972

THE ACUTE AND CHRONIC TOXICITY OF ANAESTHETIC AGENTS

Chairman:

- LEONARD C. JENKINS, M.D., F.R.C.P.(C), Professor and Head, Department of Anaesthesia, University of British Columbia, Director, Department of Anaesthesia, Vancouver General Hospital, Vancouver, B.C.

Guest Faculty:

- B. RAYMOND FINK, M.D., Professor of Anaesthesiology, Research Center, Department of Anaesthesiology, School of Medicine, University of Washington, Wash.
- GUENTHER CORSEN, M.D., Professor and Chairman, Department of Anaesthesiology, The University of Alabama, Birmingham, Ala.
- RUSSELL A. VAN DYKE, PH.D., Department of Anaesthesia, Section of Anaesthesia Research, Mayo Clinic, Rochester, Minn.
- MICHAEL DYKES, M.D., Assistant Professor of Anaesthesia, Harvard Medical School, Associate Anaesthetist, Beth Israel Hospital, Boston, Mass.
- RICHARD I. MAZZE, M.D., Assistant Professor, Department of Anaesthesia, Stanford University School of Medicine, Stanford, Calif.
- DAVID L. BRUCE, M.D., Associate Professor, Department of Anaesthesia, Northwestern University Medical School, Chicago, Ill.

Topics to be discussed:

- Acute and chronic toxicity of local anaesthetics
- Toxic effects of local anaesthetics on human respiratory epithelium
- Cytotoxic effects of halogenated anaesthetics on human liver cells and human embryonic kidney cells in culture
- Biotransformation of volatile anaesthetics with special emphasis on the role that metabolism plays in the toxicity of the anaesthetics
- Renal toxicity of anaesthetic agents
- Anaesthetic toxicity and the immune response: effects on hematopoietic system
- The toxicity problem from chronic exposure to anaesthetic agents

CANADIAN ANAESTHETISTS' SOCIETY
ANNUAL MEETING PROGRAMME

Monday, June 19, 1972

CHAIRMAN: DR. P. OTTON

Opening Remarks: DR. G. WYANT, PRESIDENT

- 0825 hours "Management of Open Heart Surgery Without the Use of Blood. The Function of Blood Volume Determination"
D. C. Finlayson and R. K. Suri
- 0900 "Haemodilution in Cardiopulmonary Bypass in Children. A Comparison of Two Different Diluents in the Pump-Oxygenator Prime"
N. Abrahams, A. E. Johnston, I. C. Radde and H. I. A. Nisbet
- 0930 "The Effects of Anaesthetic Agents on Serum Magnesium Concentrations"
R. K. Calverley and I. C. Jenkins
- 1000 "Energy Metabolism and Electrolytes During Thiopentalmeperidine Anaesthesia in Normal Man"
Emerson A. Moffitt, Alan D. Sessler, Ralph S. Goldsmith and Kai Rehder
- 1030 Coffee - Viewing of Exhibits
- 1100 Panel: "Contamination in Anaesthesia"
Chairman: P. Otton, M.D., F.R.C.P.(C), Department of Anaesthesia, Royal Victoria Hospital, Montreal, P.Q.
Panelists: D. S. Feingold, M.D., Infectious Disease Centre, Beth Israel Hospital, Boston, Mass.
Robert B. Roberts, M.D., Department of Anaesthesia, Mount Sinai Hospital, New York, N.Y.
Arthur A. Scott, M.D., F.R.C.P.(C), Co-Director, Respiratory Unit, Toronto General Hospital, Toronto, Ont.
- 1230 Lunch
- CHAIRMAN: DR. A. A. DRYSDALE
- 1330 hours "The Effect of Halothane on the Pattern of Reaction to Anoxia in the Newborn"
P. Goodhall, J. R. Taylor, J. E. Milligan and B. W. Thomas
- 1400 "The Effects of Hypoxaemia on Cerebral Blood Flow and Cerebral Spinal Fluid Pressure in Dogs Anaesthetized with Glaxo CT 1341, Methoxyflurane and Pentobarbitone"
R. S. Cohen, H. I. A. Nisbet, D. J. Steward, R. E. Creighton, P. McDonald and N. Aspin
- 1430 "Comparison of THAM and Sodium Bicarbonate in Resuscitation of the Heart After Ventricular Fibrillation"
J. P. Sharma and M. Minuck
- 1500 Coffee - Viewing of Exhibits
- 1530 "Measurement of Normal Mucociliary Clearance from the Lower

- Respiratory Tract of Dogs"
P. B. Wood, E. Nagy, F. C. Pearson and S. Rae
- 1600 "A New Technique for Measuring Pulmonary Edema"
William H. Noble, Jiri Obdrzalek and J. Colin Kay
- 1630 "Pulmonary Gas Exchange During Anaesthesia in Patients With
Chronic Renal Failure and Anemia"
P. R. Ramachandran and A. F. D. Cole

CANADIAN ANAESTHETISTS' SOCIETY

Tuesday, June 20, 1972

CHAIRMAN: DR. K. LEIGHTON

- 0830 hours "Some Problems Associated with Measurement of Physiological
Blood Gases"
Judith Dowd and L. C. Jenkins
- 0900 "Stability of the Respiratory System During General Anaesthesia"
C. Margaria, S. Iscoe, J. Couture, P. Bromage and J. Milic-Emili
- 0930 "Heat and Moisture Patterns in the Respiratory Tract During Anaes-
thesia With a Non-rebreathing System"
Raynald Dery
- 1000 "A New Piston Ventilator for Use in Respiratory Studies"
G. Volgyesi and H. I. A. Nisbet
- 1030 Coffee - Viewing of Exhibits
- 1100 *Panel: "Respiratory Failure"*
Chairman: Hillary Don, M.D., Director, Respiratory Care, Peter Bent
Brigham Hospital, Boston, Mass.
Panelists: A Charles Bryan, M.B., B.S., PH.D., Director of Research,
Department of Anaesthesia, University of Toronto, Toronto,
Ont.
Bryan Kirk, M.D., F.R.C.P.(C), Department of Internal
Medicine, Winnipeg General Hospital, Winnipeg, Man.
Edward Lowenstein, M.D., Department of Anaesthesia,
Massachusetts General Hospital, Boston, Mass.
Burdett S. Dunbar, M.D., Department of Anaesthesia,
George Washington University Medical Centre, Wash-
ington, D.C.
- 1230 Lunch
- CHAIRMAN: DR. K. FAIRHURST
Residents' Competition
(15-minute paper - 5-minute discussion)
- 1400 hours "Functional Residual Capacity in Respiratory Failure"
B. S. Steele
- 1420 "A Clinical Comparison of d-Tubocurare and Pancuronium: Dosage
Schedule based on Lean Body Mass"
E. Nickorick

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CANADIAN ANAESTHETISTS' SOCIETY JOURNAL

- 1440 "Narcotic and Belladonna Premedication and Oxygenation in Cardiac Surgery Patients"
K. W. Turnbull
- 1500 Coffee
- 1530 "CNS Induced Cardiac Arrhythmias: Possible Mechanism and Pharmacological Suppression"
B. A. Saunders
- 1550 "Respiratory Flow Resistance after Curare and Pancuronium, Measured by Forced Oscillations"
R. R. Crago
- 1610 "Respiratory Failure in Pulmonary Edema"
J. Obdrzalek

CANADIAN ANAESTHETISTS' SOCIETY

Wednesday, June 21, 1972

CHAIRMAN: DR. A. W. CONN

- 0830 hours "Site of Action of Diazepam in the Prevention of Lidocaine Induced Seizure Activity in Cats"
Norman Wale and L. C. Jenkins
- 0900 "Effects of Certain Intravenous Anaesthetic Agents on EEG Activity Recorded in Limbic and Sensory Systems"
Eva M. Kavan and R. M. Julien
- 0930 *Guest Lecturer:* Dr. B. Raymond Fink, Professor of Anesthesiology, Research Center, Department of Anesthesiology, School of Medicine, University of Washington, Seattle
Title: Cellular Biology of Anaesthesia
- 1030 Coffee - Viewing of Exhibits
- 1100 ANNUAL BUSINESS MEETING
Canadian Anaesthetists' Society
- 1230 Lunch
- CHAIRMAN: DR. R. DERY
- 1330 "A Streamlined Anaesthetic Circuit"
James A. Bain
- 1400 "A New Technique of Ventilation During Endolaryngeal Surgery under General Anaesthesia"
W. E. Spoerel
- 1430 Coffee - Viewing of Exhibits
- 1500 "Anaesthesia for Intracranial Aneurysms with Hypotension and Spontaneous Respiration"
G. Sellery, R. R. Aitken and C. G. Drake
- 1530 "A Prospective Study of Fractured Hip Patients"
David Kaan

CANADIAN ANAESTHETISTS' SOCIETY

Thursday, June 22, 1972

CHAIRMAN: DR. I. FURKIS

- 0830 hours "Renal Perfusion During Anaesthesia: A Study in the Dog"
K. M. Leighton
- 0900 "Methoxyflurane Nephrotoxicity"
J. Desmond
- 0930 "Blood Fluoride Levels After Anaesthesia"
Allen B. Dobkin and Ashley A. Levy
- 1000 "Oxygen Uptake in Ventilated Children Under Methoxyflurane"
T. L. Dobbinson, T. A. Thomas, H. I. A. Nisbet, D. A. Pelton and G. Volgyesi
- 1030 Coffee - Viewing of Exhibits
- 1100 "The Objective Measurement of Sedation in Children - A Modified Scoring System"
R. A. Barker and H. I. A. Nisbet
- 1130 "A Comparison of Thermal and Dye Dilution Cardiac Outputs"
J. Colin Kay and William H. Noble
- 1200 "Cardiovascular Response to Intravenous Pancuronium During Halothane Anaesthesia"
Morris Gertel, Gordon S. Fox, Douglas Graham and Fred Rabow

CANADIAN ANAESTHETISTS' SOCIETY PRIZE

The Canadian Anaesthetists' Society awards a prize of \$1000.00 annually for the best original work or study on subjects related to anaesthesia performed in Canada specified in the following regulations:

1. Any physician engaged in the practice of anaesthesia in Canada, in research related to anaesthesia in Canada, or in training in anaesthesia in Canada, is eligible to receive the prize.
2. The study may be clinical or in a field of basic research related to anaesthesia.
3. The Selection Committee will consist of four active members of the Canadian Anaesthetists' Society appointed by the President and Council.
4. The prize will be awarded for the best original work published in the CANADIAN ANAESTHETISTS' SOCIETY JOURNAL prior to December 31 in the preceding year, except that if in the opinion of the referees the studies published in that year do not warrant the prize, it will be deferred.
5. The prize will be awarded at the Annual Meeting of the Society.