

Australian & New Zealand Society of Respiratory Science Inc

19th Annual Scientific Meeting Adelaide, South Australia 13-15 March, 1998

Invited Speakers:

Jason HT Bates

Associate Professor
Department of Medicine & Biomedical Engineering and Meakins-
Christie Laboratories. McGill University. Quebec. Canada.

Terry Nicholas

Professor of Human Physiology
Flinders University, Adelaide. SA.

Idelle M. Weisman

Human Performance Laboratory & Dept. Pulmonary-Critical
Service.
William Beaumont Army Medical Centre, Texas. USA.

Trevor J Williams

Lung Transplant Service, Dept. Pulmonary Medicine.
Alfred Hospital, Prahan. Vic.

John Pfitzner

Director Anaesthesia
The Queen Elizabeth Hospital. Woodville. SA.

Morris Peacock

Thoracic Surgeon
Queen Elizabeth Hospital, Woodville. SA.

Sam Porter

Respiratory Medicine Unit
Queen Elizabeth Hospital, Woodville. SA.

Scientific Program

Oral Presentations

ASSESSMENT OF GLOBAL RESPIRATORY MUSCLE STRENGTH IN THE
CLINICAL ENVIRONMENT.

Belinda Breust, Brenton Eckert, Fiona Harden, Robyn O'Sullivan.
Respiratory Medicine. Princess Alexandra Hospital. Brisbane. Qld.

COMPARISON BETWEEN METHACHOLINE AND 4.5% SALINE PROVOCATION IN PATIENTS REFERRED FOR MEASUREMENTS OF BRONCHIAL RESPONSIVENESS.

SN West, PJ Briffa, PM Mayrhofer, CP Perry, JR Wheatley.
Respiratory Function Laboratory, Westmead Hospital, Westmead. NSW.

INHALED CORTICOSTEROIDS REDUCE AIRWAY RESPONSIVENESS TO INHALED MANNITOL: A PILOT STUDY.

John D Brannan, Heikki Koskela, Sandra D Anderson, Hak-Kim Chan.
Dept. Respiratory Medicine, Royal Prince Alfred Hospital. NSW.

POORER LUNG FUNCTION WHEN AIRBORNE PARTICULATES ARE ELEVATED.

Deborah Burton, George Carl, Geoff McKenzie, Yvonne Southgate, James White.
School of Biomedical Sciences, Charles Sturt University. Wagga Wagga. NSW.

DEXAMETHASONE IS EFFECTIVE AT BLOCKING OSMOTICALLY STIMULATED I_{Ca}^{In}, A CHLORIDE CHANNEL INVOLVED IN CELL VOLUME REGULATION.

LT Rodwell, M Gschwenter, A Schmarda, SD Anderson, M Paulmichl.
Dept. Thoracic Medicine, The Prince Charles Hospital. Brisbane. Qld.

INCREMENTAL CYCLE EXERCISE TESTS: USING BASELINE RESPIRATORY FUNCTION DATA TO SELECT WORKLOAD INCREMENTS.

JJ Pretto, GW Braun, PA Guy.
Dept. Respiratory Medicine, Austin & Repatriation Medical Centre, Heidelberg. Vic.

THE INFLUENCE OF A REAL TIME GRAPHICAL DISPLAY ON ACCURACY OF PORTABLE ELECTRONIC SPIROMETERS.

BW Eckert, B Breust.
Respiratory Medicine, Princess Alexandra Hospital. Brisbane. Qld.

INTERLABORATORY VARIABILITY IN THE MEASUREMENT OF LUNG FUNCTION - EFFECT OF VOLUME CALIBRATION INACCURACY.

Paul A Guy, Jeffrey J Pretto, Peter D Rochford.
Dept. Respiratory Medicine, Austin & Repatriation Medical Centre, Heidelberg. Vic.

Keynote Speakers

ASSESSMENT OF RESPIRATORY MECHANICS IN PATIENTS.

Jason Bates.
Department of Medicine & Biomedical Engineering and Meakins-Christie Laboratories.
McGill University. Quebec. Canada.

THE ROLE OF SURFACTANT IN THE MECHANICS OF BREATHING.

Terry Nicholas
Dept. Human Physiology, Flinders University, Adelaide. SA.

Poster Presentations

DIFFERENTIAL CHANGE IN AIRWAY & TISSUE IMPEDANCE WITH INCREASING GESTATION.

G Hall, J Pillow, Z Hantos, K Willett, PD Sly

TVW Telethon Institute for Child Health Research. Perth. WA.

ASSITIONAL RESPIRATORY BENEFIT OF MULTIPLE Vs SINGLE DOSE MATERNAL BETAMETHASONE IS LIMITED TO THE EXTREMELY PRETERM LAMB.

J Pillow, G Hall, Z hantos, K Willett, PD Sly.

TVW Telethon Institute for Child Health Research. Perth. WA.

SCORING SCALES IN RESPIRATORY PSYCHOPHYSICS.

SA Jack, L Ramondetta, M Kazins, TA Demis, MCF Pain.

Dept. Thoracic Medicine, The Royal Melbourne Hospital. Vic

MOUSE NASAL EPITHELIUM: TRANSEPIHELIAL POTENTIAL DIFFERENCE IS DEPRESSED BY HIGH-DOSE BUT NOT LOW-DOSE DETERGENT EXPOSURES THAT ENHANCE *IN VIVO* GENE TRANSFER.

David Parsons, Peter Hopkins.

Dept. Pulmonary Medicine, Womens & Childrens Hospital. Adelaide. SA.

A COMPARITIVE STUDY OF THE PRESET PRESSURE DURING PRESSURE CONTROLLED VENTILATION.

Brian G Lee, John F Cade, Jeffrey J Presnil, Peter T Morley.

Intensive Care Unit, The Royal Melbourne Hospital. Vic.

DOES PREOPERATIVE LUNG FUNCTION PREDICT DEGREE OF IMPROVEMENT FOLLOWING LUNG VOLUME REDUCTION SURGERY?

S Khov, DP Johns, D Reid, GI Snell, EH Walters, TJ Williams.

Dept. Respiratory Medicine, The Alfred Hospital. Prahan. Vic.

MEASURES OF KCO IN PATIENTS WITH EMPHYSEMA PROVIDES USEFUL QUANTITATIVE INFORMATION.

A Herrero, S Homan, L Saccoia, D Figurski, S Porter, M Peacock, R Ruffin, A Southcott.

Respiratory Medicine Unit, The Queen Elizabeth Hospital. Woodville. SA.

PARTIAL INSPRATORY AIRFLOW OBSTRUCTION DURING EXERCISE.

Stephen Lambert.

Dept. Respiratory Medicine, Prince of Wales Hospital. Sydney. NSW.

MANNITOL CHALLENGE AS A DIAGNOSTIC TEST FOR ASTHMA. A COMPARISON WITH ISOCAPNIC HYPERVENTILATION (ISH) AND EXERCISE CHALLENGES.

Heikki Koskela, John D Brannan, Sandra D Anderson, Hak-Kim Chan.

Dept. Respiratory Medicine, Royal Prince Alfred Hospital. NSW

Symposium - Ventilating the Lungs

MECHANICAL CHANGES TO THE LUNGS DURING BRONCHOCONSTRICTION.

Jason Bates.

Department of Medicine & Biomedical Engineering and Meakins-Christie Laboratories.
McGill University. Quebec. Canada.

IMPACT OF COPD ON EXERCISE PERFORMANCE.

Idelle Weisman.

Human Performance Laboratory & Dept. Pulmonary-Critical Service.

William Beaumont Army Medical Centre, Texas. USA.

THE ROLE OF SURFACTANT IN HOST DEFENCE AND AS AN “ANTI-GLUE” IN COPD.

Terry Nicholas.

Dept Human Physiology, Flinders University, Adelaide. SA.

MUSCLE LIMITATION IN COPD AND THE EFFECT OF LUNG VOLUME REDUCTION SURGERY.

Trevor Williams.

Lung Transplant Service, Dept. Pulmonary Medicine. Alfred Hospital, Prahan. Vic.

LUNG VOLUME REDUCTION SURGERY - SELECTION AND SURGICAL OBJECTIVES.

Morris Peacock.

Queen Elizabeth Hospital, Woodville. SA.

LUNG VOLUME REDUCTION SURGERY - ANAESTHETISTS PERSPECTIVE

John Pfitzner.

Dept. Anaesthesia. The Queen Elizabeth Hospital. Woodville. SA.

OUTCOMES OF LUNG VOLUME REDUCTION SURGERY.

Sam Porter.

Respiratory Medicine Unit, Queen Elizabeth Hospital, Woodville. SA.

PHYSIOLOGICAL EFFECTS OF LUNG VOLUME REDUCTION SURGERY.

Jason Bates.

Department of Medicine & Biomedical Engineering and Meakins-Christie Laboratories.
McGill University. Quebec. Canada.