

Australian & New Zealand Society of Respiratory Science Inc.

2001 Annual Scientific Meeting Brisbane, Queensland 16 – 19 March 2001

Guest Speaker: **Professor David McKenzie**
Head of Respiratory and Sleep Medicine
Prince of Wales Hospital
Sydney, New South Wales

Scientific Programme

Oral Presentations

Beyond 11503: Advanced Respiratory Function Tests Part 1
Professor David McKenzie
Head of Respiratory and Sleep Medicine
Prince of Wales Hospital, Sydney, New South Wales

[Ventilation-Perfusion Inhomogeneity Increases Gas Uptake During Anaesthesia: Computer Modelling of Gas Exchange.](#)

Bruce Thompson, Phil Peyton
Departments of Respiratory Medicine and Anaesthesia, Austin & Repatriation Medical Centre, Melbourne, Victoria

[Selection of Normal Values for Plethysmographically Determined Static Lung Volumes](#)

Troy Watts, Jeff Pretto, Peter Rochford
Department of Respiratory Medicine, Austin & Repatriation Medical Centre, Heidelberg, Victoria

Beyond 11503: Advanced Respiratory Function Tests Part 2

Professor David McKenzie
Head of Respiratory and Sleep Medicine
Prince of Wales Hospital, Sydney, New South Wales

φ [Prevalence of Exercise Induced Bronchoconstriction \(EIB\) in Young Athletes Identified by Eucapnic Voluntary Hyperpnea. \(EVH\)](#)

Camps J, Anderson SD, Perry CP, Brannan JD, Holzer K
Department of Respiratory Medicine, Royal Prince Alfred Hospital, New South Wales and
Department of Allergy, Asthma and Clinical Immunology, The Alfred Hospital, Victoria.

[Leukotriene C4 Synthase Gene and Asthma Severity](#)

Shaw JG, Yang IA, Tunnicliffe AM, Dent AG, Lynn PE, Smith DG, Rabnott GC, Serginson JG, Zimmerman PV, Fong KM
Department of Thoracic Medicine, The Prince Charles Hospital; Department of Medicine, University of Queensland, Brisbane, Queensland

[The Assessment and Interpretation of Reversibility of Airflow Limitation Using Bronchodilators: Current Practice in Laboratories in Australia and New Zealand](#)

[B Borg](#), EA Side, DP Johns

Department of Respiratory Medicine, the Alfred Hospital and Monash University Medical School, Melbourne, Victoria

[Interlaboratory Variability in the Measurement of Lung Function in Australia & New Zealand](#)

[M Swanney](#), P Guy, L Cardno, C Frampton, K Gain, D Sharp & L Beckert

Respiratory Physiology Laboratory, Christchurch Hospital, Christchurch, New Zealand,

Respiratory Laboratory, Monash Medical Centre, Melbourne, Australia,

Respiratory Laboratory, Wellington Hospital, Wellington, New Zealand.

Lung Function Laboratory, Royal Adelaide Hospital, Adelaide, Australia

* [Spirometry Screening in Country Pharmacies: A Pilot Study](#)

[Deborah Burton](#), Peter Gissing, Maree Simpson, Jayne Walker, Melanie Archer, Scott

Bowman, Mark Burton

School of Biomedical Sciences, Charles Sturt University, Wagga Wagga, New South Wales

[How Accurately Do We Measure Standing Height?](#)

[EA.Side](#), MF Hartley, PJ Lyell, P Guy, B Borg, DP Johns

Department of Respiratory Medicine, The Alfred Hospital and Monash University Medical

School, Melbourne, Victoria and Department of Respiratory and Sleep Medicine, Monash

Medical Centre, Clayton, Victoria.

*Winner of Best Oral Presentation Award

φWinner of Young Investigator Award

Poster Presentations

[Pre-season Cardiopulmonary Profiles of Australian Professional Club Football Players](#)

[P Kelly](#), L Seccombe, S Kannangara, G Konidaris

New South Wales Institute of Sports Medicine, Concord Repatriation General Hospital,

Concord, New South Wales

[Day to Day Variation in Barometric Pressure Does Not Affect the Conventional BTPS Correction Factor](#)

[MF Hartley](#), EA Side, GP Burns, DP Johns

Department of Respiratory Medicine, The Alfred Hospital and Monash University Medical

School, Melbourne, Victoria

[Variability in the Driving Pressures of Mefar™ Dosimeters May Confound PD₂₀](#)

[Comparisons Between Different ECRHS Centres](#)

RJ Ward, DP Johns, [B Skoric](#), C Ward, M Abramson, EH Walters

Department of Respiratory Medicine, The Alfred Hospital and Monash University Medical

School and CSMCH La Trobe University, Melbourne, Victoria

[Effect of a Cleaning Regime on Bacterial Growth and Performance of Peak Flow Meters](#)

Glenda Dunlop, Eva Dichiera, Leanne Sullivan, Ann Reynolds, Andrew Thornton, David P Johns

Department of Thoracic Medicine, Royal Adelaide Hospital, Adelaide, South Australia and
Department of Respiratory Medicine, The Alfred Hospital and Monash University Medical School, Melbourne, Victoria.

[Assessment of Resistive Load Detection in Patients with Chronic Obstructive Airways Disease](#)

GD Pritchard, M Kazins, L Ramondetta, MJ-L Hew, TA Demis

Department of Thoracic Medicine, Royal Melbourne Hospital, Parkville, Victoria

Winner of Best Poster Presentation Award

Aerosol Symposium

Fundamentals

[Medical & Pharmaceutical Aerosol Research and Development in Australia.](#)

Hak-Kim Chan

Faculty of Pharmacy, University of Sydney. New South Wales.

[Fundamental Aspects of MDI Development using HFA's](#)

David Ganderton

Vectura Ltd. Bath, United Kingdom.

[Imaging of Radioaerosol Deposition and Clearance: Planar Vs SPECT.](#)

Stefan Eberl

Department of PET and Nuclear Medicine, Royal Prince Alfred Hospital, Sydney, New South Wales.

[Development of Pulmonary Delivery Systems with Predictable & Reproducible Performance: What are the Critical Parameters that need to be Controlled?](#)

Igor Gonda, Aradigm Corp, Hayward, California, USA.

[In vitro-In vivo Correlations and Deposition Modelling.](#)

Andy Clark

Inhale Therapeutic Systems Inc, San Carlos, California, USA.

[Inhaled Particle Design Using Pulmosphere™ Technology.](#)

Andy Clark and Jeff Weers

Inhale Therapeutic Systems Inc, San Carlos, USA.

Emerging Respiratory Delivery Technology

[“Adaptive Aerosol Delivery” \(AAD™\): A Novel Platform Technology with Applicability to a Range of Pulmonary Drug Delivery Systems.](#)

Jonathon Rigby

Profile Therapeutics, United Kingdom.

[The Soft Mist Inhaler RESPIMAT: Performance & Current Status.](#)

[Michael Spallek](#)

Boehringer Ingelheim. Germany.

[The AERx[®] Pulmonary Drug Delivery System](#)

[Igor Gonda](#)

Aradigm Corp. USA, Hayward, California, USA

[Aerogen's Domed Aperture Technology: Implications for Aerosol Delivery and Applications.](#)

[Jim Fink](#)

Aerogen Inc. Sunnyvale, California, USA.

[Aerolisation of Protein Drugs Using Thermal Inkjet Technology.](#)

[Stephen Goodall](#), Michael J Waters, Hak-Kim Chan, Stephen Mahler

Vapotronics Ltd. Queensland; Department of Pharmacology and Physiology, University of

Queensland, Queensland; Faculty of Pharmacy, University of Sydney, New South

Wales; Department of Biotechnology, University of New South Wales, New South Wales.

Emerging Respiratory Delivery Technology (cont). Medical Aspects

[The Inhale Pulmonary Delivery System.](#)

[Andy Clark](#)

Inhale Therapeutic Systems Inc, San Carlos, California, USA.

[Bead Inhaler Technology](#)

[Clyde Witham](#)

Elan Pharmaceuticals. USA.

[Use of Aerosols for Laboratory Bronchial Provocation Testing.](#)

[Anderson SD](#) and JD Brannan

Department of Respiratory Medicine, Royal Prince Alfred Hospital,

Camperdown, New South Wales

[Dosing of Aerosol Medications – Which Device, Which Dose?](#)

[Peter Le Souef](#)

University Department of Paediatrics, Princess Margaret Hospital for Children, Perth.

Western Australia.

[When are Two Drugs Better than One for the Management of Airway Disease?](#)

[Christine Jenkins](#)

Department of Respiratory Medicine, Concord Hospital and Institute of Respiratory Medicine,

Royal Prince Alfred Hospital, Camperdown, New South Wales

[Practical Aspects of Current Inhaler Use in the Paediatric Population.](#)

[Sunalene Devadason](#)

University Department of Paediatrics, Princess Margaret Hospital for Children, Perth

Western Australia.

Regulation on Aerosol Products

[FDA Recommendations for Equivalence Testing of Locally Acting Inhalation Products](#)

Wallace Adams

Office of Pharmaceutical Science (OPS), Centre for Drug Evaluation and Research (CDER), FDA. Rockville, Maryland, USA.

[Respiratory Products & Testing in Europe.](#)

David Ganderton

Vectura Ltd. Bath, United Kingdom.

[Regulation of Aerosol Products in Australia](#)

James McGinness

Drug Safety and Evaluation Branch, Therapeutic Goods Administration, Canberra, Australia.

[How Industry is Responding to the New FDA Guidelines on Aerosol Products](#)

John Pritchard

GlaxoSmithKline, Stockley Park West, Uxbridge United Kingdom.

Medical Aspects (cont)

[The Use of Inhaled Hypertonic Saline for the Treatment of Hypersecretion in Patients with Cystic Fibrosis](#)

Michael Robinson, Mark Elkins, Peter TP Bye

Cystic Fibrosis Centre, Royal Prince Alfred Hospital, Sydney, New South Wales.

[Use of Inhaled Dry Powder Mannitol for the Treatment of Hypersecretions](#)

Evangelia Daviskas and Sandra D Anderson

Department of Respiratory Medicine, Royal Prince Alfred Hospital, Sydney. New South Wales.

[A Novel Compound for the Treatment of Chronic Obstructive Lung Disease.](#)

Richard Evans, F Johnson, B Kaufman, D Kellerman, B .Boyd, D Cipolla, S Farr, G Taylor, S Warren, E Ferguson

Inspire Pharmaceuticals.Inc, Durham, North Carolina, USA, Aradigm Corporation, Hayward, California, USA, Welsh School of Pharmacy, Cardiff, United Kingdom, Cardiff Scintigraphics, Cardiff, United Kingdom, Simbec, Methyr, United Kingdom.

[Using Advanced Pulmonary Delivery Technology to Improve Clinical Outcomes](#)

William Zimlich

Battelle Pulmonary Therapeutics Inc., Ohio, USA.

[Experience with Insulin Delivery using the AERx System](#)

Stephen Farr

Aradigm Corporation, Hayward, California, USA.

Aerosol Symposium Poster Presentations:

[Determinants for Dispersion of Powders as Aerosols for Inhalation](#)

Nora YK Chew, Hak-Kim Chan

Faculty of Pharmacy, University of Sydney, New South Wales

[The Deposition of Salbutamol Sulphate from Interactive Mixtures using a Prototype Dispersion Device](#)

Zhao FY, Stewart PJ, Rhodes M, Nguyen DA

Department of Pharmaceutics, Victorian College of Pharmacy, Monash University, Victoria and Department of Chemical Engineering, Monash University, Clayton, Victoria

[Differences between the Outcomes from Experimental and Theoretical Studies on the Deposition of Combustion Aerosols in the Human Respiratory Tract](#)

Lidia Morawska, Werner Hofmann

Centre for Medical and Health Physics, Queensland University of Technology, Brisbane, Queensland, Institute of Physics and Biophysics, University of Salzburg, Salzburg, Austria

[Pharmacometrics of the Triamcinolone Acetonide Formulation Azmacort®](#)

Majid R Feddah, Xiao W Teng, Neal M Davies

Faculty of Pharmacy, The University of Sydney, New South Wales.