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ANZSRS QLD Branch Meeting

Wednesday 5th September
From 5:00pm for a 5:30pm start
Fish Lane Studios Function Room, Level 2
The Fox Hotel, 73 Melbourne Street,
South Brisbane

Guest Speakers:
Dr John Aukes
Greenslopes Hospital
"Exercise Induced Pulmonary Hemorrhage"

Scientist Speakers:
Nadia Preller
Redlands Breathewell Centre
"OSA and COPD Overlap Syndrome"



Branch News

- Thanks to Ewan Grobbelaar for this month's Library Corner

August 2018 Library Corner

Presented by Ewan Grobbelaar
Clinical Microbiology Unit
Mater Hospital



The Mackay community is predominantly comprised of extensive forestry, vineyards and wheat. Cattle and sheep production (CSP) has been a part of the area which led to an increase in lung health screening and not associated lung function papers.

The first paper is titled "Empyema and Airflow Obstruction in New Zealand Cattle with Pneumonia" by Innes et al (2018).

Background
"Accumulating evidence shows that bacterial pneumonia in subjects with coal worker's pneumoconiosis (CWP) progresses from subclinical and subtle alterations, rather than underlying structural emphysema. However, cigarette smoking has masked a severe emphysema. The aim of this study was to assess whether coal dust exposure was associated with emphysema and/or airflow obstruction in the absence of smoking history."

Results
Emphysema severity was significantly higher in the CWP group compared with the control group (15% vs. 6%, p=0.002). The emphysema severity was significantly higher in the CWP group compared with the control group (15% vs. 6%, p=0.002). The emphysema severity was significantly higher in the CWP group compared with the control group (15% vs. 6%, p=0.002).

Conclusions
This study supports the observation that coal dust exposure is associated with emphysema and airflow obstruction, independent of smoking status."

The next study is titled "Does competitive swimming affect lung growth?" by Boudet et al (2018).



Abstract
"Whether the large lungs of swimmers result from intensive training or genetic endowment has been widely debated. Given that peak lung growth velocities occur during puberty, this study examined if competitive swimming during puberty affected lung growth. Eighty-five 12-year-old females (mean age 12.5 years) were divided into competitive swimmers (PES) and non-swimmers (PES2) over a 12-month period. Lung growth was assessed by spirometry (FEV1, FVC, and TLC) and by anthropometry (height, weight, and chest circumference). Respiratory function, and ventilation of pulmonary capillaries, were measured during an incremental cycling test. Spirometry (n=11) and anthropometry (n=10) were of similar age, size, and sexual maturity (P>0.05). However, swimmers compared to controls had a greater total lung capacity (PES2 4.7 ± 0.73 vs. 3.9 ± 0.46; POST 5.0 ± 0.48 vs. 4.1 ± 0.44 L, P<0.01), peak expiratory flow (PES2 4.6 ± 0.52 vs. 3.7 ± 0.38; POST 4.9 ± 0.54 vs. 4.0 ± 0.71 L/s, P<0.01), and PEFmax (PES2 4.6 ± 0.52 vs. 3.7 ± 0.38; POST 4.9 ± 0.54 vs. 4.0 ± 0.71 L/s, P<0.01). Although DLCO was greater in swimmers (P<0.01), differences were attenuated when expressed relative to predicted values (PES2 1.4 ± 0.19 vs. 1.4 ± 0.19; POST 1.4 ± 0.19 vs. 1.4 ± 0.19 and mean ± s.d., P>0.05). The groups achieved a similar maximal oxygen uptake (PES2 2.2 ± 0.23 vs. 2.2 ± 0.23 L/min, P>0.05). Lung growth rate was not different between groups (P>0.05). At the initial assessment, predicted female swimmers had greater lung size, respiratory flow, and volume of pulmonary capillaries in strength, but similar pulmonary compliance while cycling. One competitive swimming season did not further increase the enhanced lung size and function in other respiratory parameters, suggesting that competitive swimming during puberty did not affect lung growth."



Last Chance for CRFS 2018

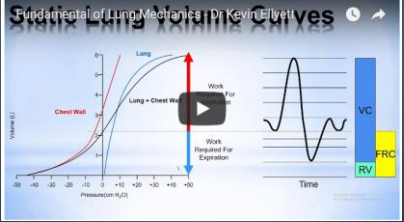
26th Oct (applications close **21/9/18!!!**)

- 100 multi-choice questions, two hour testing time
- AUD\$100 – includes 1 free re-sit within 12 months
- Useful resources can be found on the ANZSRS website

Fundamentals of Lung Mechanics" – by Dr Kevin Elliyett

- Under 'Education' in the Members Content
- Webinar Videos





TSANZSRS
Annual Scientific Meeting

The Annual Scientific Meeting for
Leaders in Lung Health & Respiratory Science
29 March – 2 April 2019, Gold Coast Convention and Exhibition Centre





Abstracts Close:
12 October 2018

TSANZ Paediatric Respiratory Short Course 2018

Event Date: Tuesday 16 October 2018
Time: 8:00am for an 8:30am start - 5:00pm

Venue: Lady Cilento Children's Hospital, Brisbane [For more information and directions - [CLICK HERE](#)]
This course will be fully catered for.

Topics:

- The Future of Respiratory Medicine in Australia
- Paediatric Asthma
- Neuromuscular Disorders
- Respiratory Research
- Asthma
- Chronic Cough and Bronchiectasis
- Pneumonia
- Hi flow in respiratory failure
- CDH / TOF
- and more....

Programme: Full program will be available shortly

Registration now Open! Please register no later than **Thursday 11th October 2018**

Category	Cost (all prices are GST inclusive)
TSANZ/ANZSRS Member - Ordinary/Corporate**	\$95.00
TSANZ/ANZSRS Member - Ordinary (≤100k p/a)**	\$90.00
TSANZ/ANZSRS Member - Associate**	\$70.00
TSANZ/ANZSRS Member - Student**	\$50.00

Mentor Program

- Areas of mentoring/ advising include:

- Research
- Clinical Practice
- Accreditation
- Laboratory Management and Leadership



- If you wish to become a Mentor, be mentored or become an advisor, then please contact the Program Facilitators for more information.

- Margaret McErea (margaret.mceirea@health.qld.gov.au)

Grants

- **ANZSRS Jeff Preto Memorial Research Grant**

- encourage and support research in clinical and/or laboratory-based respiratory science by Society members
- Application closing date is early **November 2018**

- **ANZSRS Advanced Education Grant**

- offered to encourage and support continuing education of respiratory clinical physiologist who have completed their core training and are intending to advance their skills and education in the more complex areas of pulmonary function testing
- Application closing date for first grant is the **Friday of the last full week of October** (Awarded January)

- **ANZSRS Ascencia Education Grant**

- assist members higher qualifications in a field related to their work at a recognised tertiary institution as assistance for funding course work fees
- Application closing date for grant is the **Friday of the last full week of November**

- **ASM Grant**

- Assists members to attend and preferably present work at the Society's Annual Scientific Meeting.
- Completed applications must be received by the ANZSRS Secretariat by **November 2018**

Up next

- Wednesday the 7th November
 - Main Speaker - LCCH
 - Scientist speaker – The Lung Centre Gold Coast

- 2018 Christmas Party! Details to come...

- Join Us on Facebook!

- Search "QLD Respiratory Scientists"
 - Get to know your colleagues from around QLD!
 - Keep up to date on news
 - Share interesting articles

