Projects beginning in 2007

2007/001

Burden of obstructive lung disease in Australia

Aims

1. To estimate the prevalence of COPD
2. To estimate the burden of COPD
3. Develop a model to predict the future burden of COPD
4. Characterise the clinical management of COPD

Investigators

- Clin Assoc Prof Alan James, Department of Pulmonary Physiology, SCGH
- Assoc Prof Guy Marks, Woolcock Institute of Medical Research, NSW
- Prof Michael Abramson, The Alfred Hospital, VIC.

Project status

In progress

2007/002

The association of sleep apnoea with mortality and cardiovascular disease” 15 years data from the Busselton Health Study

Aims

To quantify the relationship between the severity of sleep apnoea and the risks of mortality and cardiovascular disease in community dwelling adults

Investigators

- Dr Nat Marshall, Woolcock Institute of Medical Research, NSW
- Dr Ron Grunstein, Woolcock Institute of Medical Research, NSW
- Dr Michael Hunter, Busselton Health Study
- Dr Stewart Cullen, WA Sleep Disorders Research Institute, SCGH

Project status

In progress
**2007/003**

**Chronic kidney disease, progression, morbidity and mortality**

**Aims**

To investigate the impact of CKD on renal disease progression, including ESRD, cardiovascular morbidity and mortality.

**Investigators**

- Dr Paolo Ferrari, Fremantle Hospital
- Dr Xiao Jianguo, Department of Health, WA Government
- Dr Ashley Irish, Royal Perth Hospital
- Prof Tim Davis, School of Medicine and Pharmacology, UWA

**Project status**

In progress

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**2007/004**

**Wellcome Trust Case Control Consortium – Genome Wide Association Study of Asthma**

**Aims**

1. To conduct a genome-wide association study to identify asthma susceptibility genes using cases and controls from several large studies.
2. To integrate with the Asthma in Europe GABRIEL project

**Investigators**

- Clin Assoc Prof Alan James, Department of Pulmonary Physiology, SCGH
- Clin Assoc Prof John Beilby, Department of Biochemistry, Pathwest
- Dr Jennie Hui, WAIMR
- Prof Lyle Palmer, WAIMR
- Clin Prof Bill Musk, Department of Respiratory Medicine, SCGH
- Prof Bill Cookson, Imperial College London
- Dr Miriam Moffatt, Imperial College London
- Dr Mark Lathrop, Centre National de Genotypage, Canada
- Dr Erika von Mutius, University Childrens Hospital, Munich
**Project status**

In progress

**2007/005**

**Gene variants in adiponectin and its receptors as risk factors for metabolic and cardiovascular**

**Aims**

1. To determine if circulating total adiponectin levels associate independently with insulin sensitivity, MetS components, Type 2 diabetes, and coronary heart disease.
2. To assess if variants of the adiponectin gene, ADIPOQ, can significantly affect the levels of circulating adiponectin both individually and in combination with obesity.
3. To examine the impact of genetic variants in ADIPOQ and its receptors on the risk of developing insulin resistance, MetS, type 2 diabetes, and coronary heart disease.
4. To determine if plasma adiponectin levels and ADIPOQ variants are prospectively associated with risk of major cardiovascular events.

**Investigators**

- Prof Joseph Hung, Cardiovascular Medicine, Sir Charles Gairdner Hospital
- Adj Prof John Beilby, PathWest
- Prof David Bruce, School of Medicine and Pharmacology, Fremantle Unit, UWA
- Dr Steven Wiltshire, WAIMR
- Dr Brenda Powell, WAIMR
- Prof Peter Thompson, Centre for Medical Research, UWA

**Project status**

In progress