On the pulse 21 Jun 2017 ..... 

**St George Hospital raising awareness of preeclampsia**

The Obstetric Medicine Research Group at St George Hospital (pictured) recently held a free event at St George Leagues Club to raise awareness of preeclampsia during pregnancy.

The event was widely attended by health professionals and community members and was organised in collaboration with the St George & Sutherland Medical Research Foundation (SSMRF) and the Heart Foundation.

Associate Professor **Greg Davis**, Senior Specialist Obstetrician, St George Hospital said there are increasing numbers of women diagnosed with conditions such as preeclampsia and gestational diabetes during pregnancy.

"Not only do these conditions need to be managed for the health of mother and baby during pregnancy, they also provide a unique window into a woman’s potential health risks for heart disease and diabetes in the future," Greg said.

The World Health Organisation estimates that preeclampsia and related hypertension in pregnancy affects about 10 million women per year worldwide, leading to the deaths of 76,000 mothers and about half a million babies.

In Australia, 30,000 women each year will develop high blood pressure in pregnancy and 10,000 of these will have preeclampsia.

**Kerry Doyle**, NSW Chief Executive, Heart Foundation, said the diagnosis of preeclampsia in pregnancy provides a golden opportunity to identify a group of at-risk young women early in their lives, and to start preventive measures such as control of weight, blood pressure, cholesterol and diabetes, to reduce their long-term risk of heart disease.

http://seslhnweb/CE_Newsletter/2017/6/21/default.asp
Recently completed studies:

**SPIRIT – Survey of Patients with Resistant Hypertension**

To estimate the prevalence and incidence of true resistant treatment hypertension in adults. Data was collected from our Ambulatory blood pressure data base and CKD renal outpatient clinic.

Study status: closed. Recruited 30 patients.
PI: A/Prof Badve
Contact: Saiyini 9113 2484
Sponsor: The George Institute for Global Health

Studies in progress:

1. **Simplicity- HTN- Renal Denervation in patients with uncontrolled hypertension**

   Single-blinded, randomized, controlled study of the safety and effectiveness of renal denervation in subjects with uncontrolled hypertension. Bilateral renal denervation will be performed using the Symplicity Catheter - a percutaneous system that delivers radiofrequency (RF) energy through the luminal surface of the renal artery.

   Status: Recruitment closed. Follow up continues.
   PI: A/Prof Mangos
   Contact: Jenny 9113 2621
   Sponsor: Medtronics

2. **P4: Postpartum physiology, psychology and paediatric assessment**

   Investigating the physical and mental health of women and the health and development of their babies at 6 months, 2 years and 5 years postpartum in women who were normotensive in pregnancy, or had either gestational hypertension or preeclampsia. Also includes a subsequent pregnancy assessment and follow-up.

   Status: in progress
   PI: A/Prof Davis / Prof Brown
   Contact: Lynne 9113 2117

3. **CKD-FIX: A randomised controlled trial of slowing of kidney disease progression from the inhibition of Xanthine oxidase**

   Aim is to find out whether treatment with allopurinol, safely and effectively slows CKD progression.

   Status: Closed for recruitment- FU continues.
   PI: A/Prof Badve
   Contact: Paula 9113 1439
   Sponsor: Australian Kidney Trials Network
4. Can we predict renal failure for our population?

Retrospective data analysis of patients who have commenced dialysis to validate Tangri and other available formulae to our population.

Status: in progress
PI: A/Prof Katz and A/Prof Kelly
Contact: Kylie/Saiyini 91132484

5. Uric Acid and Renal outcomes.

Systematic review of observational study, association of uric acid with clinical outcomes in CKD will be studied.

Dr Nasir Shah (BPT)
Supervisor: A/Prof Badve

6. Benefits and harms of Vitamin D therapy in CKD.

In this systematic review of randomised controlled trials, benefits and harms of vitamin D therapy in people with CKD will be studied.

Dr Wing Chi GiGi Yeung
Supervisor: A/Prof Badve and A/Prof Mangos

7. Bone disease in pre-dialysis CKD.

Despite the high fracture rate and symptomatic burden of bone mineral disease, there is very little information on bone disease in pre-dialysis patients. This prospective study will evaluate characteristics and determinants of bone disease in pre-dialysis patients by using dual energy X-ray absorptiometry, high resolution MRI and markers of bone turnover.

Dr Wing Chi GiGi Yeung
Supervisor: A/Prof Badve and A/Prof Mangos

8. PDOPPS: Peritoneal dialysis outcomes and practice patterns study

Identify modifiable practices associated in PD technique and patient survival.

Status: in progress
PI: A/Prof Badve
Contact: Claire/Emma 9113 3775
Sponsor: Australian Kidney Trials Network
9. REDUCTION: Reducing the burden of dialysis catheter complications: A National approach

To define the clinical and economic burden of dialysis catheter exposure and bacteraemia across Australia and New Zealand.

To reduce dialysis catheter related bacteraemia through implementation of an evidence based and systematic intervention package.

Status: in progress
PI: A/Prof Badve
Contact: Yanella/Chris 9113 3818
Sponsor: The George Institute

10. CoDeBiSMeSH: Comparative dynamic echocardiography, bioimpedance spectrometry and mean systemic filling pressure in HD patients.

To establish usual values of mean systemic filling pressure (Pms) measured by measured by rapid vascular occlusion in isolated limb in patients with chronic renal failure presenting for routine elective haemodialysis session.

To assess dynamic changes in Pms (arm) in response to a defined removal of fluid volume from circulation during haemodialysis.

To find dynamic relationships between classical echocardiographic measurements, bioimpedance spectroscopy measurements and invasive measurements of Pms (arm) in patients HD patients

Status: in progress
PI: A/Prof Yastrebov/A/Prof Katz
Contact: Yanella/Chris 9113 3818

Renal Supportive Care Symposium and Psychosocial day
2017
10TH AUGUST: PSYCHOSOCIAL DIMENSIONS
11TH AUGUST: RSC SYMPOSIUM
RESEARCH & EDUCATION CENTRE, ST GEORGE HOSPITAL
**Future studies:**

**ASCEND – D and ASCEND- ND (dialysis and non-dialysis population)**

Phase 3 Randomised, open label (sponsor blind), active controlled, parallel group, multicentre, event driven study in dialysis subjects with anaemia associated with chronic kidney disease to evaluate the safety, efficacy of daprodustat compared recombinant human erythropoietin, following switch from erythropoietin-stimulating agents.

Status: commencement August  
Pi: A/Prof Badve  
Contact: Paula/Saiyini 91132484  
Sponsor: GSK

**CARSK: Canadian-Australasian Randomised Trial of Screening Kidney Transplant Recipients for Coronary Artery Disease.**

Regular cardiac screening vs no regular screening of patients on transplant waiting list.

Status: commencement September  
Pi: A/Prof Badve  
Contact: Tania 91134205  
Sponsor: The University of Sydney/NHMRC
**PREVENT-ADPKD**

Randomised controlled trial to determine the feasibility, efficacy and safety of prescribed water intake to prevent kidney failure due to Autosomal Dominant Polycystic Kidney Disease.

Status: waiting for ethics approval  
Pl: A/Prof Badve  
Contact: Saiyini 91132484

**Effect of non-dialysis**

Measurement of sarcopenia and frailty of non-dialysis patients.  
Status: Recruitment to commence soon  
Pl: Prof Brown  
Contact: Jess 9113 1533

**Haemoglobin and Fatigue Score**

Hb management and use of ESA in RSC patients  
Status: Retrospective data collection (ethics to be approved)  
Pl: Prof Brown  
Contact: Kelly 9113 1590

**Recent Publications:**


RSA conference presenters: Claire Cuesta (CNC- PD) and Alison Smyth (CNC-RSC)
ANZSN
4th-6th September 2017
Darwin
ABSTRACT - 10 May 2017
Early bird registration - 5 July 2017

Dialysis Access Symposium
19th-20th October 2017
Japan
Registration closes - 30th Sep 20

SOMANZ/ADIPS
20th-22nd Oct 2017
Canberra
Abstract closes: 7th Aug
Early Bird Registration deadline: 4th Sep

Transplant Nurses Association
15th-17th Nov 2017
Melbourne
Abstract closes: 18 Aug
Registration opens: 5 June

Renal Genetics Symposium
7th and 8th Dec 2017
Melbourne
Abstract closes: 30th Sep
Registration open: 5th May

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