

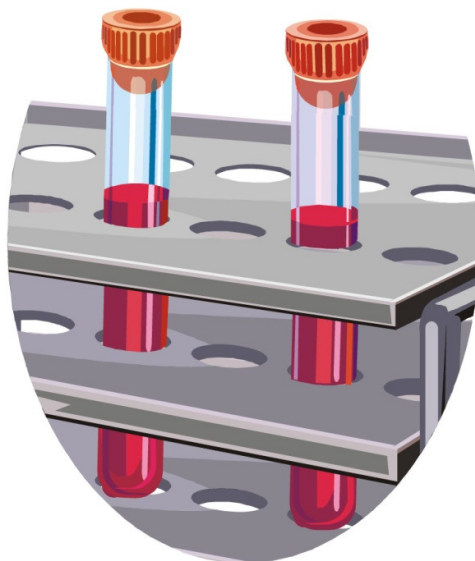


Department of Renal
Medicine
St George Hospital



Research Report

2013



Head of Department

Professor Mark Brown
MBBS, MD, FRACP

Senior Consultant Staff

Dr Sharon Ong BSc (Med), MBBS, PhD, FRACP (Conjoint Senior Lecturer, UNSW),
Head of Research, Dept. Renal Medicine.

Associate Professor John Kelly MBBS, MD, FRACP

Associate Professor George Mangos MBBS, MD, FRACP

Associate Professor Ivor Katz MD, MBBCh, FCP(SA), BSc Honours, PhD, FRACP

Dr William Chan MBBS, PhD, FRACP

Dr Parthasarathy Shanmugasundaram MBBS, DM, FRACP (Conjoint Lecturer, UNSW)

Dr Cathie Lane B.Pharm. B.Med FRACP, Grad Cert ULT, PhD (Conjoint Lecturer, UNSW)

Dr Frank Brennan MBBS, FRACP, FACHPM, LLB- Consultant Palliative Care Medicine

Research Staff

Research Fellow

Dr Franziska Pettit

Medical Students

Colin Chng
Foong Ming Ho

Research Officers

Saiyini Pirabhahar
Lynne Roberts
Gemma Collett
Paula Williamson

Nursing & Allied Health Research Staff

Elizabeth Josland
Shelley Tranter
Tania Burns
Jennifer Beddoe
Yanella Martinez-Smith
Coralie Meek
Maria Chan

RECENT AND ONGOING RESEARCH PROJECTS

Hypertension in chronic kidney disease (CKD)

Dr Sharon Ong and A/Prof John Kelly

1. Adequacy of blood pressure control in CKD patients.
2. Endocrine regulation of hypertension and cardiovascular disease in CKD.

CKD health systems research

A/Prof Ivor Katz

1. Achievement of target BP & other risk factors in CKD patients.
2. Patterns of referral for CKD Management.
3. CKD to kidney failure - predictive model.
4. Web based CKD outreach program.

Hypertension in pregnancy

**Prof Mark Brown and A/Prof George Mangos
(with A/Prof Greg Davis and A/Prof Tony O'Sullivan)**

1. The 'new' R-A-A system in pre-eclampsia.
2. Body composition in normal pregnancy.
3. Outcomes of hypertensive pregnancies.
4. Post-partum physiology, psychology and pediatric outcomes for women with pre-eclampsia (the 'P4' study).

Renal palliative care

Dr Frank Brennan and Prof Mark Brown

1. The role of palliative care in improving quality of life outcomes for hospital based haemodialysis patients.
2. Quality of life & symptom burden in dialysis patients.
3. Survival and symptom control of patients in Pre-dialysis & Renal Supportive Care clinics.
4. Retrospective and prospective studies of the effects of a Renal Palliative care service on patients with CKD stage 4/5 and their carers.
5. A study of 'good deaths' in dialysis patients.

Nutrition in CKD

Maria Chan and A/Prof John Kelly

1. Relationship between nutritional status and outcome in end stage kidney disease.

PRESENTATIONS

Invited Lectures – Local

2013

1. **Brennan F.** Renal Supportive Care – An Overview. Department of Nephrology. John Hunter Hospital. Newcastle. February 14th 2013.
2. **Brennan F.** Renal Supportive Care in adult patients – An Overview. Pediatric Palliative Care Symposium, Westmead Children's Hospital. March 7th 2013.
3. **Brennan F.** Renal Supportive Care – An Overview. Aboriginal Health Workers. Yarra Bay House, La Perouse, Sydney. March 28th 2013.
4. **Brennan F.** Pain in non-malignant diseases including End Stage Kidney Disease. Pain Symposium. Pain Institute Royal North Shore Hospital, Sydney. May 4th 2013.
5. **Brennan F.** Withholding and withdrawing from dialysis and the Care of the Dying Patient. Tamworth Base Hospital Renal Unit, Tamworth, NSW. June 26th 2013.
6. **Brennan F.** Renal Supportive Care – An Overview. The Physicians' Forum. Concord Hospital, Sydney. July 11th 2013
7. **Brennan F.** What is Renal Supportive Care? Renal Supportive Care Symposium, St George Hospital, Sydney. August 9th 2013.
8. **Brennan F.** The pathogenesis and management of Restless Legs Syndrome. Renal Supportive Care Symposium, St George Hospital, Sydney. August 9th 2013.
9. **Brennan F.** The pathogenesis of pruritus. Pruritus Symposium. St George Hospital, Sydney. August 10th 2013
10. **Brennan F.** The pathogenesis and management of Uraemic Pruritus. Pruritus Symposium. St George Hospital, Sydney. August 10th 2013
11. **Brennan F,** Elizabeth Josland and Gemma Collett. Renal Supportive Care – “Let's Get Renal” – Medical, Legal and Ethical Challenges. Bathurst, NSW, August 27th 2013.
12. **Brennan F,** Elizabeth Josland and Gemma Collett. Renal Supportive Care – “Let's Get Renal” – Medical, Legal and Ethical Challenges. Brewarrina, NSW. August 29th 2013
13. **Brennan F,** Elizabeth Josland and Gemma Collett. Renal Supportive Care – “Let's Get Renal” – Medical, Legal and Ethical Challenges. Walgett, NSW. August 30th 2013
14. **Brennan F.** Management and Advanced Care Planning in patients with End Stage

- Kidney Disease. Clinical Ethical Forum – Ethics, End of Life and Advanced Care Planning. Royal Hospital for Women, Randwick, Sydney. September 27th 2013.
15. **Brown MA.** The Dialysis long case. BPT Master Class for Sydney BPT trainees. St George Hospital, Sydney. May 29th 2013
 16. **Brown MA.** Renal Disease. Small Group workshop, SESLHD Medicare Local, Lugarno, NSW. July 12th 2013
 17. **Brown MA.** Renal Supportive care- Coming to your Unit soon. NSW Renal Group, Sydney. August 8th 2013.
 18. **Brown MA.** Acute Kidney Injury. Intensive Care Seminars. St George Hospital, Sydney. August 13th 2013.
 19. **Brown MA.** Men’s Health. Gymea Baptist Church, Sydney. August 17th 2013.
 20. **Brown MA.** When Hope is better than dialysis. Hunter New England LHD 2013 Quality & Scientific Program. “Diagnosis and Treatment: Too much Medicine?” Newcastle, NSW. August 21st 2013
 21. **Brown MA.** When Hope is better than dialysis. Department of Renal Medicine. John Hunter Hospital. Newcastle. August 22nd 2013.
 22. **Brown MA.** When it is time to say enough: to dialyse or not? Medical Grand Rounds. John Hunter Hospital. Newcastle. August 22nd 2013.
 23. **Brown MA.** Chairman, Kidneys for sale – yes or no? St George hospital Medical Research Symposium, Kogarah, NSW. October 17th 2013.
 24. **Burns T,** Fernandez R. & Stevens M. Waiting for a Kidney transplant – A literature review. Transplant Nurses of Australasia Annual Conference. Sydney. October 24th 2013.
 25. **Chan M** Engaging Practice Research to Improve the Clinical Outcome of Patients with End Stage Kidney Disease. The Australasian Society for Parenteral and Enteral Nutrition (AuSPEN) ASM (Sydney, Australia) November 2013.
 26. **Chan M** Symposium on “Inflammation, Metabolism and Nutrition in Real Disease”, Evidence Based Practice of the nutritional management in patients with Chronic Kidney disease. Sydney. November 2013.
 27. **Cuesta, A,** Tranter S. Taking Control: Addressing Peritoneal Dialysis Related Infection. NSW and ACT PD Nurses Special Interest Group, College of Nursing in Burwood, August 2013.
 28. **Cuesta, A.** Addressing Peritoneal Dialysis Related Infection. Guest speaker at Improving outcomes in Nephrology October workshop Sydney. October 28th 2013.

29. **Josland E.** End Stage Renal Disease. Palliative Care Course, St George Hospital, Sydney. March 7th 2013.
30. **Josland E.** Renal Supportive Care – Nursing Experience and Perspectives. Renal Supportive Care Symposium, St George Hospital, Sydney. August 9th 2013.
31. **Josland E.** Panel Discussion: Chronic Disease Management Renal Palliative Care. University of Notre Dame, Darlinghurst, Sydney. August 15th 2013.
32. **Josland E.** Renal Supportive Care. Palliative Care Day. St George Hospital, Sydney. October 31st 2013.
33. **Mangos GJ.** “What’s new in Hypertension Management?” Pharmaceutical Society of Australia. Clinical and Practice Expo. Sydney. June 2nd 2013.
34. **Turner, K & Burns T.** The role of a renal transplant recipient coordinator in a non-transplanting unit. Transplant Nurses Association Annual Conference. Sydney. October 25th 2013

Invited Lectures – National

2013

1. **Brennan F.** The experience of establishing a Renal Supportive Care Service. Nephrology Scientific Symposium. Melbourne, Victoria. April 20th 2013.
2. **Brown MA.** ‘No dialysis’ pathway. Dialysis, Nephrology, Transplant workshop. Alice Springs, NT. March 3rd-6th 2013.
3. **Mangos GJ.** Resistant Hypertension. Dialysis, Nephrology, Transplant workshop. Alice Springs, NT. March 3rd-6th 2013.
4. **Mangos GJ.** Renal Denervation. Australian and New Zealand Society of Nephrology. Brisbane, Queensland. September 9th-11th 2013.
5. **Mangos GJ.** Treatment Resistant Hypertension. Australian and New Zealand Society of Nephrology. Brisbane, Queensland. September 9th – 11th 2013.
6. **Mangos GJ.** Nephrologist’s perspective on Renal Sympathetic Nerve Ablation. Hearts and Minds Conference. Melbourne. November 16th 2013.

Invited Lectures – International

2013

1. **Brennan F.** Renal Supportive Care – An Overview. All Ireland Palliative Care Institute, Dublin, Ireland. April 29th 2013.
2. **Brennan F.** Palliative Care in End Stage Renal Disease. Asia Pacific Hospice and Palliative Care Network Conference, Bangkok. Thailand. October 11th 2013
3. **Brennan F.** Engaging Palliative Care in non-cancer patients. Plenary Speech. Asia Pacific Hospice and Palliative Care Network Conference, Bangkok. Thailand. October 12th 2013
4. **Brennan F.** Morality and Ethics in the withdrawal of treatment. Asia Pacific Hospice and Palliative Care Network Conference, Bangkok. Thailand. October 13th 2013
5. **Brennan F.** Supportive / Palliative Care in CKD. Kidney Disease Improving Global Outcomes (KDIGO). Mexico City, Mexico. December 6-8 2013.
6. **Chan M** Renal nutrition research – implication to clinical practice. University of Hong Kong and Dietitians Association of Hong Kong (Hong Kong) June 2013.

Presentations of Research at Scientific Meetings

Local

2013

1. **Pettit F,** Davis G, Henry A, Mangos G, Brown MA. Is early onset pre-eclampsia worse for mother or baby? St George hospital Medical Research Symposium, Kogarah, NSW. October 17th 2013.

National

2013

1. **Chan, M,** Tranter, S, Josland, E, Collett, G & Kelly J. 2013. Association of nutritional status and the future choice of dialysis option in patients attending the multidisciplinary predialysis assessment clinic Top 10 poster presentation at the Renal Society of Australasia Conference Hobart. June 6th 2013.

2. **Chan M**, Kelly J, Batterham M and Tapsell L. Nutritional characteristics and dietary intake of patients at enrolment to the pre-dialysis assessment clinic. Dietitians Association of Australia 30th National Conference, May 2013 (Canberra, Australia).
3. **Chan M**, Kelly J, Batterham M and Tapsell L. Self-reported appetite and adequacy of energy and protein intakes in patients with non-dialysis chronic kidney disease, Dietitians Association of Australia 30th National Conference, May 2013 (Canberra, Australia)
4. **Chan M**, Kelly J, Batterham M and Tapsell L. Nutritional status is associated with the future treatment choice - renal replacement therapy vs. conservative care in end stage kidney disease patients attending the multidisciplinary pre-dialysis assessment clinic. 49th Australian and New Zealand Society of Nephrology (ANZSN) Annual Scientific Meeting, September 2013 (Brisbane, Australia).
5. **Cuesta, A**, Tranter, S & Blow T. Taking control: addressing peritoneal dialysis related infection outcomes. Renal society of australasia Conference Hobart. June 6th 2013.
6. **Pettit F**, Davis G, Henry A, Mangos G, Brown MA. Is early onset pre-eclampsia worse for mother or baby? Society of Obstetric Medicine Australia and New Zealand. Annual Scientific Meeting. Fremantle, WA. October 25th – 27th 2013.
7. **Tranter, S**, Chan,M, Josland, E, Kerr E, McTaggart, S, Collett, G & Tapsell L. Nutritional profile of patients at enrolment to the multidisciplinary predialysis clinic 2002-2012. Top 10 poster presentation at the Renal society of australasia Conference Hobart. June 6th 2013

International

2013

1. **Brown MA**. Collett G, Josland EA, Brennan F. Non-dialysis management in the elderly: survival, symptom control and quality of life. American Society of Nephrology Kidney Week. Atlanta. USA. November 5th – 10th 2013.

PUBLICATIONS

2013

1. **Brennan FP.** “Clock without Hands”. *American Journal of Hospice and Palliative Medicine* 2013; 30(3):312-316.
2. **Brennan FP.** Conscientious Objector – Edna St Vincent Millay, mortality and the nature of Palliative Care. *Journal of Palliative Care* 2013; 29(2): 123-125.
3. **Brennan FP, Brown M.** An ethical approach to dialysis – an alliance of Nephrology, Palliative Medicine and ethics. *Quarterly Journal of Medicine* 2013; 106(5): 397-400.
4. **Brennan FP.** The New World of Ourselves. *Journal of Palliative Care* 2013; 29(4): 258-259.
5. **Brennan FP.** Ethical Principles for Patients, Families and Doctors to Consider. *Nephrology* 2013; 18: 413-414.
6. **Brennan FP, Siva B, Crail S.** Appropriate Assessment of Symptom Burden and Provision of Patient Information. *Nephrology* 2013; 18: 418-421.
7. **Brennan FP.** Holistic Palliative Care Approach - Physical, Spiritual, Religious and Psychological Needs. *Nephrology* 2013;18: 421-423.
8. **Brennan FP.** Dignity: a Unifying Concept for Palliative Care and Human Rights. *Progress in Palliative Care* 2013 (Epub ahead of print publication)
9. **Brennan FP, Murrell DF.** Report from the Inaugural Australian Pruritus Symposium, Sydney, Australia, August 10 2013. *Acta Derm Venereol* 2013. Oct 24 (Epub ahead of print publication)
10. **Brown MA.** Is there a role for ABPM in Pregnancy? *Clinical and Experimental Physiology and Pharmacology*. 2013. DOI.10.1111/1440-1681.12106
11. **Brown MA, Crail SM, Masterson R, Foote C, Robins J, Katz I, et al.** ANZSN Renal Supportive Care Guidelines 2013. *Nephrology*. 2013;18(6):401-54.\
12. **Burns, T.** Waiting for a kidney transplant in Australia. *Transplant Journal of Australasia*, 2013b: 23, 10-15
13. Crail S, Walker R, **Brown M.** Renal Supportive Care working group. Renal supportive and palliative care: position statement. *Nephrology*. 2013; 18(6):393-400.
14. **Cuesta, C., Blow, T. & Tranter, S.** Epidermolysis bullosa: a rare challenge for peritoneal dialysis nurses. *Renal Society of Australasia Journal*, 2013:9, 41-44.
15. Foo JY, **Mangos GJ, Brown MA.** Characteristics of hypertensive disorders in twin

- versus singleton pregnancies. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health* 2013; 3:3-9.
16. Johnson DW, Atai E, **Chan M**, Phoon RKS, Scott C, Tussaint N, Turner GI, Usherwood T, and Wiggins, K. KHA-CARI guideline: Early chronic kidney disease: detection, prevention and management. *Nephrology* **18** (2013) 340–350
 17. **Josland, E.** Quality of Life. What information is already available and what evidence is this based on? *Nephrology*,2013c: 18, 410-413.
 18. Lim CED, Siow S, Ho KEH, Chua JL, Chong N, Cheng L, Kwok, **Brennan FP**, Cigolini M. Advance Care planning in haemodialysis patients. *Protocol Information. Cochrane Reviews. Review number 294.* September 2013.
 19. **Ong SLH**, Vohra H, Zhang Y, Whitworth JA. The role of mitochondrial superoxide in glucocorticoid-induced hypertension. *Oxid Med Cell Longev* 2013; 2013:517045.
 20. **Pettit F & Ong SLH.** Management of Hypertension in Pregnancy. *eMIMS Disease Index.* Revision August 2013.
 21. Prabhu A, Taylor P, Konecny P, **Brown MA.** Pyelonephritis: What are the present day causative organisms and antibiotic susceptibilities? *Nephrology.* 2013;18(6):463-7.
 22. Siva B, **Brennan FP.** Inappropriate Interventions in the Dying Patient. *Nephrology* 2013; 18: 423-424.
 23. Spaan J, Bowyer L, Lazzaro V, McCrohon J, **Brown MA.** Maternal hemodynamics influence fetal hemodynamics in normal and hypertensive pregnancy. *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health.* 2013; 3:10–15
 24. Spaan J, **Brown MA.** Can we protect the kidneys after hypertensive pregnancy? *Canadian Medical Association Journal.* 2013; 185:199-200.
 25. Stewart C, **Brennan FP.** Legal Issues Concerning Withholding and Withdrawal of Dialysis. *Nephrology* 2013; 18: 444-449.
 26. Tranquilli AL, **Brown MA**, Zeeman GG, Dekker G, Sibai BM. The definition of severe and early-onset pre-eclampsia. Statements from the International Society for the Study of Hypertension in Pregnancy (ISSHP). *Pregnancy Hypertension: An International Journal of Women's Cardiovascular Health.* 2013; 3: 44–47.

27. **Tranter S.**, Anastasiou A., **Bazzi H.**, **Burgess H.** & **Josland E.** The renal memorial service: an important component of renal supportive care. *Renal Society of Australasia Journal*, 2013;9, 80-84.
28. Urban K, **Brennan FP.** Patients who withdraw from dialysis in a Sydney centre with palliative care support: who, why, and how they die. *Progress in Palliative Care.* Available on-line February 1 2013.

OTHER PUBLISHED MATERIAL (Books, book chapters & reviews)

1. **Burns, T.** Book review: "Nutritional Management of Renal Disease". *Renal Society of Australasia Journal*, 2013: 9, 143.
2. **Chan M** and Chadban S. Chapter 34: Nutritional management of renal transplantation. Kopple J, Massry S and Kalantar-Zadeh K. *Textbook of Nutritional Management of Renal Disease.* Third Edition. Elsevier Publishing, 2013.
3. **Chan, M** and Trevino-Becerra, A. Nutrition, exercise and hemodialysis. Trevino-Becerra, A. (editor) *Hemodialysis Esquemática.* Publisher, Prado (Mexico) and translated into Spanish, 2013
4. **Field, D.** 2013. Book review: Understanding chronic kidney disease a guide for non-specialists. *Renal Society of Australasia Journal*, 9, 45.
5. **Josland, E.** Book review "Kidney disease: From advanced disease to bereavement" Second edition. *The Renal Society of Australasia Journal*, 2013: 9, 142.

AWARDS

1. **Renal Society of Australasia Recognition award**, awarded to **Dr Shelley Tranter** at the Renal Society of Australasia Conference. Hobart June 6th 2013.
2. **President's Prize** for best presentation awarded to **Dr Franziska Pettit** at the Society of Obstetric Medicine Australia and New Zealand. Annual Scientific Meeting. Fremantle, WA. October 25th – 27th 2013.
3. **Judith Meppem Scholarship** awarded to **Elizabeth Josland**. Undertake a study tour to observe and learn about innovative and best practice in nursing, specifically focusing on renal supportive care in Kings College Hospital London. November 2013.

RESEARCH GRANTS

Amgen Research Grants

Recipient: A/Prof Ivor Katz

Project Name: The development of a web-based Chronic Kidney Disease Outreach Program

Amount: \$70 000

Year: 2013

COMMUNITY ENGAGEMENT

A/Prof Ivor Katz is involved in the The development of a web-based Chronic Kidney Disease Outreach Program: improving clinical outcomes of CKD patients in the St George and Sutherland area. . The CKD outreach program implements a web-based clinical tool whereby general practitioners (GPs) and hospital-based doctors can refer patients with or at risk of CKD for expert nephrological opinion online.

Department of Renal Medicine

St George Hospital
50 Montgomery Street
Kogarah NSW 2217

T: 612-91132622

F: 612-95538192

Email: STGRenalDepartment@sesiahs.health.nsw.gov.au

Website: <http://stgrenal.med.unsw.edu.au>