

# Telehealth for Home Haemodialysis

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TOGETHER  
**ACHIEVING**  
BETTER HEALTH



**Health**  
Nepean Blue Mountains  
Local Health District



# Nepean Telehealth Technology Centre

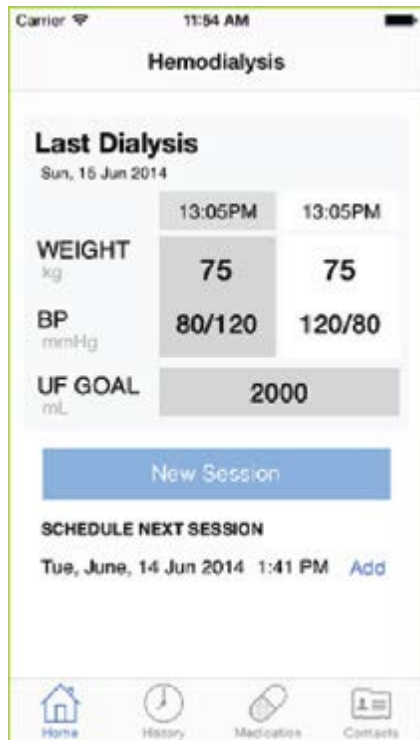
- ❖ \$2 million over 4 years to develop and implement innovative Telehealth initiatives
- ❖ To develop, evaluate and implement best practice Telehealth Technology with a focus on improving patient access to care and improving health outcomes
- ❖ Partnership between Nepean Blue Mountains Local Health District (NBMLHD) and the Institute of Biomedical Engineering and Technology, University of Sydney
- ❖ Other Telehealth projects – Neurology, Aged Care, Infectious Diseases, Outreach, Orthopaedics, Mental Health and others



# Home Dialysis

- ❖ **Western Renal Service** encompasses NBMLHD and Western Sydney Local Health District (WSLHD)
- ❖ It is one of the largest home dialysis therapy populations in Australia with **53%** of all patients dialysing at home
- ❖ **110** patients are currently on home haemodialysis (HDD) - expected to increase to **150** patient by 2016
- ❖ Limited nursing resources limits ongoing support

**87** Suburbs      Nurse : Patient ratio = **1:36**

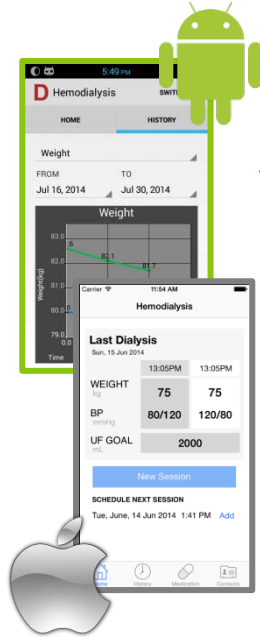


# Solution

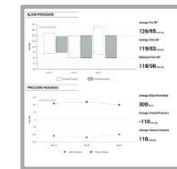
Patients @ Home



HHD Apps



Secure Cloud



Printed Reports



Nurses



ABF



Physicians



# Benefits

- ❖ Simple and easy to view dialysis data and trends in real time resulting in **improved clinical decision making assisted by the use of a mobile App**
- ❖ Efficient and easy record keeping through an App that has been developed **with the patient, for the patient**
- ❖ Less travel time for patients and staff
- ❖ **Best Practices** (Security, Training and Documentation)
- ❖ Capture number of treatments per month for Activity Based Funding

# Future

- ❖ Recruitment of more patients
- ❖ Incorporating the use of the HHD App with training of new patients
- ❖ Video consultations to promote patient independence at home
- ❖ Linking the HHD App with other health database
- ❖ Peritoneal Dialysis App also in development
- ❖ Telehealth consultations with remote stethoscopes and vascular ultrasounds to monitor dialysis access

# Acknowledgements

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