NERU.
A mountain in Himavā. All birds settling there become golden
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FOREWORD

From Head of School, School of Psychiatry and Clinical Neurosciences: Professor Sean Hood

The Neuropsychiatric Epidemiology Research Unit is superbly led by Professor Vera Morgan, a psychiatric epidemiologist with a special interest in the study of schizophrenia and related psychiatric disorders. Under her leadership the Unit has flourished in terms of its success nationally and internationally and its ability to secure highly competitive research funding, in particular from the National Health and Medical Research Council. Indeed, it was under the leadership of Professor Morgan that the NERU Unit led the National Study of High Impact Psychosis (SHIP), using their extensive experience of record-linked population health, social services and criminological databases and this study is continuing to have a national and international impact. The profile and productivity of the members of this Unit is attested to by their significant publication record, convening of national conferences, leadership in esteemed national and international professional bodies and their competitive grant success. In addition, the Unit’s relationship with North Metropolitan Area Mental Health Service, particularly Professor Morgan, in the provision of research-informed care to patients with psychotic disorders is an exemplar of successful integration with the complex Western Australian Health Service in a time of significant health service delivery reform.

Professor Sean Hood
Head of School: School of Psychiatry and Clinical Neurosciences

From the Head, Neuropsychiatric Epidemiology Research Unit: Winthrop Professor Vera Morgan

The objective of the Neuropsychiatric Epidemiology Research Unit (NERU) is to further understanding of aetiology, course and outcome for people with psychotic disorders. To this end, NERU had a very successful year in 2014, reflecting the intellectual input, dedication and enthusiasm of its staff.

- We were very fortunate, in view of a dwindling pool of funding, to obtain a new NHMRC project grant to support our program of work on risk factor epidemiology in psychotic illness.

- Work continued on our ongoing NHMRC project grant, in which we are following up the physical health of Western Australian participants from the National and State Survey of High Impact Psychosis (SHIP). This grant involves collaboration with UWA School of Medicine, and north and south metropolitan Perth mental health services.

- We extended our national and international presence.
Some highlights:

- Professor Mary Cannon, Royal College of Surgeons in Ireland, and Professor John McGrath, University of Queensland, joined me as associate investigators on the newly awarded grant.

- We continued our ongoing collaboration with Professors Tom McNeil and Jonas Björk (Lund University, Sweden) and Professor Kathryn Abel (University of Manchester).

- Maxine Croft was awarded a $75,000 Near Miss grant for her NHMRC application on healthy pregnancy outcomes for mothers with severe mental illness needing psychotropic medications during pregnancy. She is currently establishing a network of State and National collaborators for an NHMRC Partnership application.

- Anna Waterreus joined an international collaboration investigating the measurement of physical activity in people with severe mental illness. Her first meeting was in Padua in April 2014.

- Sonal Shah was invited to give an oral presentation on maternal severe mental illness and infant mortality at the Schizophrenia International Conference in Florence in April 2014.

- Giulietta Valuri and Patsy Di Prinzio were invited to present papers (maternal psychotic illness and risk of criminal offending by their children; intellectual disability in offspring of mothers with psychotic disorders) in a symposium on advancing psychiatric research via interagency linkage of population records. This was at the national annual meeting of the Society for Mental Health Research in Adelaide in December 2014. At the same conference, I gave a keynote address on our program of record-linkage research within NERU investigating environmental and familial risk factors for psychotic illness and other neuropsychiatric outcomes.

- The Survey of High Impact Psychosis (SHIP), a national collaboration, continues to produce high quality publications. At the end of 2014, we had 38 papers in press or in print. Of note, the overview paper in the *Australian and New Zealand Journal of Psychiatry*, “People living with psychotic illness in 2010. The second Australian national survey of psychosis”, which was the first paper from the SHIP collaboration, was the third most cited article in journal, and was recognized by Thomson Reuters as a Highly Cited Paper.

- I had the special honour of being invited to give the 80th Annual Beattie Smith Lecture at The University of Melbourne in May 2014 and was awarded the Beattie Smith medal. The topic I selected was: “A whole-person perspective on recovery for people with psychotic illness. Data from the Australian national psychosis survey on physical health, mental health, cognitive function and social participation”.

I am very fortunate in the staff of the Neuropsychiatric Epidemiology Research Unit. In addition to being highly competent, experienced and conscientious researchers, their thoughtfulness towards one another and their delightful sense of humour makes ours a wonderful and supportive work environment, as well as an academically productive one.

Winthrop Professor Vera Morgan  
Head: Neuropsychiatric Epidemiology Research Unit
The Neuropsychiatric Epidemiology Research Unit is recognised for its expertise in psychiatric epidemiology. The Unit takes a cross-disciplinary approach to the study of neuropsychiatric disorders, especially schizophrenia and other psychotic disorders, that melds epidemiological, psychiatric, criminological and sociological perspectives on aetiology, course and outcome for people burdened with these disorders to help unravel their complex aetiology.

OUR RESEARCH TEAM

The Unit is made up of committed researchers from a variety of disciplines, including experts in epidemiological methods, biostatistics, record linkage, clinical assessment, diagnostic classification, criminology, and various aspects of physical health morbidity e.g. reproductive pathology, obstetric complications, mortality statistics, cardiometabolic disorders. The breadth of scientific and clinical expertise, professional skills and experience that these staff bring to the Unit are its greatest assets. The Unit has a long history of success in attracting national, international and government funding to support its program of research.
Figure 1. 
Organisational structure, Neuropsychiatric Epidemiology Research Unit, 2014

Neuropsychiatric Epidemiology Research Unit Organisational Structure 2014

Head: Neuropsychiatric Epidemiology Research Unit
Vera Morgan

Epidemiology: record-linked data
Maxine Croft
Patsy Di Prinzi
Taryn Major
Sonal Shah
Giulietta Valuri
Sharon Vukovich

Database management
Statistics
Instrument development/training
Patsy Di Prinzi
Sonal Shah
Giulietta Valuri
Anna Waterreus

Epidemiology: clinical / survey data
Patsy Di Prinzi
Jenny Griffith
Sonal Shah
Anna Waterreus

Director: Centre for Clinical Research in Neuropsychiatry
Assen Jabiensky

School support:
Administrative: Stephanie Gee
IT: Lindsay James / D Brown

Head: UWA School of Psychiatry and Clinical Neurosciences
Sean Hood
One arm of our research relies on linkage of the Western Australian psychiatric case register to an extensive network of other electronic State health and social services registers.

Since 1995, most of this work has focused on the relationship between environmental risk factors and genetic liability for schizophrenia and other neuropsychiatric outcomes including, but not limited to, birth defects, intellectual disability, pervasive developmental disorders, epilepsy, psychiatric illness and psychotic illness. Topics include:

- Impact of social adversity on the developmental trajectory to mental illness
- Life course trajectories and neuropsychiatric outcomes in an e-cohort of high risk children of mothers with psychosis
- Pregnancy, delivery, and neonatal complications in a population cohort of women with schizophrenia and major affective disorders
- Intellectual disability comorbid with schizophrenia and other psychotic disorders
- Are influenza and season of birth environmental risk factors for schizophrenia?

Several other projects also rely on the use of linked register data.

- The association between schizophrenia and criminal offending
- Evaluation of the impact of Australian perinatal mental health reforms on service utilisation and related cost-effectiveness

The second arm of our research is involved in clinical and large-scale surveys of the prevalence of psychotic illness in Australia, and the characteristics of those affected.

The Unit has been responsible for leading Australia’s two national surveys of psychotic illness, in 1997-98 and in 2010. National and State psychosis survey participants are now being followed up longitudinally, both face-to-face and through record-linkage to their health records. The four main projects that we have undertaken are:

- Overcoming barriers to improved physical health in people with severe mental illness (SHIP WAve 2): 2013-2016
- The 2012 North Metro Survey of High Impact Psychosis (North Metro SHIP)
- The 2010 Australian National Survey of High Impact Psychosis (SHIP)
- The 1997-98 Low Prevalence (Psychotic) Disorders Study (LPDS)
Record linkage across population-based registers including multigenerational approach

The Neuropsychiatric Epidemiology Research Unit (NERU) has extensive experience in the use of multigenerational cross-linked data from the Western Australian psychiatric case register, State health (e.g. morbidity, birth defects, midwives, mortality) and other registers (e.g. criminal; intellectual disability; cerebral palsy; cancer; child protection and education) to study prevalence, incidence, aetiology and risk factors.


The Unit has an excellent infrastructure, including information technology and physical infrastructure, to support its work. NERU staff have developed and maintain a complex data model of 8 million records for over 1 million individuals.

Risk factor epidemiology

Record linkage methodology has been the basis of the epidemiological study of risk factors for schizophrenia and other psychosis. These have included: obstetric complications; influenza; and season of birth.


Largescale epidemiological surveys

The Neuropsychiatric Epidemiology Research Unit is experienced in the design, instrument development and coordination of large national multisite surveys and the Unit includes highly skilled research staff with clinical mental health expertise. It has had responsibility for the conduct of Australia's two national psychosis surveys: in 1997-98, the first national survey of psychosis, the Low Prevalence (Psychotic) Disorders Study and, in 2010, the second national Survey of High Impact Psychosis (SHIP). In 2012, it undertook a SHIP extension study in north metropolitan Perth, the North Metro Survey of High Impact Psychosis (North Metro SHIP).


Clinical assessments and reviews

See section of Instrument Development for approaches to the clinical assessment of psychopathology and physical health, and the conduct of clinical casenotes reviews.
**Diagnostic Interview for Psychosis – Diagnostic module (DIPpc-DM 1.0)**

The Diagnostic Module of the Diagnostic Interview for Psychoses (DIP-DM) is a semi-structured interview consisting of the 97 items of the Operational Criteria for Psychosis (OPCRIT). The DIP_DM uses probes and differential definitions derived and adapted from the WHO Schedules for Clinical Assessment in Neuropsychiatry (SCAN). A computer algorithm generates diagnoses using the underlying Operational Criteria for Psychosis (OPCRIT) algorithm. The development, reliability and applications of the DIP have been published. The DIP-DM is being used in New Zealand, UK, US and, in translation, in Indonesian, Italy, Spain, France, Greece, Norway, Mongolia, Russia and Bulgaria. A self-executing PC version of the software was developed and distributed in 2013.


**Diagnostic Interview for Psychosis (full versions: LPDS* and SHIP*):** These include all modules of the nationals surveys (LPDS*—3 modules; SHIP*—33 modules).

**Psychosis Screener**

The Psychosis Screener was developed for LPDS* 1997-98 and further modified for SHIP* 2010. It is a brief instrument (one page) covering 8 items and takes 1-2 minutes to complete. There are patient and keyworker versions.

* LPDS: Low Prevalence (Psychotic) Disorders Study; SHIP: Survey of High Impact Psychosis

**Brief Cognitive Assessment Tool**

As part of SHIP* 2010, a need was identified for a Brief Cognitive Assessment Tool (pen-and-paper) that could be used in a number of research settings. In 2009, the assessment tool was completed and psychometric properties were examined.

**McNeil-Sjöström Scale for Obstetric Complications**

The McNeil-Sjöström Scale operationalises the scoring of hundreds of obstetric complications and their treatment, ranging from common to rare. The scale is underpinned by both biological and aetiological considerations and is designed to take a better account of the amount, timing and severity of obstetric complications. It produces separate summated scores for three time periods (pregnancy; labour and delivery; neonatal) as well as producing an overall score. We have written a computer algorithm to automate the scoring of obstetric complications recorded on the electronic Midwives Database.

**Measures of longitudinal maternal morbidity:** Algorithms have been written using all longitudinal maternal health data on the Midwives Database to produce a full estimate of maternal morbidity at the time of childbirth.

**Measures of adversity**

Indicators of exposure to adverse life events and adverse social, familial and physical environments are being systematically extracted from the linked electronic records. These indicators will be combined in clinically and mathematically meaningful ways that will allow them to be used as predictors of outcome in our risk factor research.

**Simple Physical Activity Questionnaire (SIMPAQ)**

Anna Waterreus is collaborating with an international network to develop and validate a physical activity questionnaire appropriate for use with people with severe mental illness.

**Children’s Checklist**

Children’s Checklist was developed by the Unit specifically for the collection of children’s data on substance misuse, psychotropic medication use, behavioural problems, neurocognitive data and psychopathology not recorded in the Diagnostic Interview for Psychosis.
Our aim is to integrate genetic and risk factor epidemiology under a developmental perspective in order to examine reproductive pathology in women with severe mental illness and follow-up proximal and distal developmental and neuropsychiatric sequelae in their children. Children at increased familial risk for severe mental illness are compared with children at no increased familial risk on a wide range of developmental indices and environmental risk factors, including obstetric events, with a view to elucidating the intergenerational transmission of both vulnerability and resilience to adverse neuropsychiatric outcomes. These outcomes include, among others, birth defects, intellectual disability, pervasive developmental disorders, epilepsy, psychiatric illness and psychotic illness. We have three overarching hypotheses:

1. Neuropsychiatric disorders including schizophrenia, bipolar disorder, autism spectrum disorder, epilepsy and intellectual disability, as well as certain rare congenital anomalies, will tend to cluster in families.
2. Children of mothers with severe mental illness will be at increased risk of a spectrum of such outcomes.
3. Obstetric complications and other environmental exposures will contribute to the offspring outcomes, either independently or in interaction with the parentally transmitted genetic risk.

The figure below summarises pictorially the study design.
This is a whole population record linkage study, using linkage across psychiatric, physical morbidity, mortality and other administrative registers in WA to follow up a large cohort of 467,945 children born between 1980 and 2001 to 246,874 mothers. This includes 15,486 births to 7,508 mothers with a psychotic illness. The study design is described in full in: http://www.ncbi.nlm.nih.gov/pubmed/20870781

Environmental and familial risk factors for psychotic illness and other neuropsychiatric outcomes: Register data collection

Currently, we are examining the following outcomes:

- maternal reproductive morbidity and early neonatal morbidity (lead author: M Croft)
- stillbirths, perinatal and childhood mortality (lead author: S Shah)
- early neuropsychiatric outcomes including birth defects, intellectual disability and rare syndromes (lead author: P Di Prinzio)
- educational outcomes (lead author: A Lin)
- child victimisation (lead author: S Shah)
- criminal offending (lead author: G Valuri)

We are in the final phase of this project. We have started to explore the role of adversity on risk of developing a psychotic illness, and are in the process of constructing an adversity scale. Once completed, we will be able to address the hypotheses (see above) for our flagship paper examining familial and environmental risks for psychotic illness in these high risk children of mothers with schizophrenia and other psychotic disorders. Work already published using a smaller cohort includes:


TRANSLATION
Findings of adverse obstetric outcomes for the offspring of mothers with psychotic disorders resulted, in collaboration with the Clinical Applications Unit, in the development of a care coordination package, leading to implementation of a State care-coordination program for pregnant women with severe mental illness, the first of its kind in Australia. To disseminate findings widely among clinicians, they were published in Directions in Psychiatry (“Exemplary Status” by Accreditation Council for Continuing Medical Education).
**Intellectual disability and psychotic illness**

*P Di Prinzio, V Morgan, Jonas Björk, T McNeil, A Jablensky*

We have a series of studies that have reported on the prevalence of intellectual disability in people with schizophrenia and explored the nature of the association between psychotic disorders and intellectual disability. This work is ongoing. Publications to date include:

- Intellectual disability comorbid with schizophrenia and other psychotic disorders  
- Epidemiology of intellectual disability co-occurring with schizophrenia and other psychiatric illness: population-based study: The epidemiology of intellectual disability co-occurring with schizophrenia and other psychiatric illness  

**TRANSLATION**

These data added to accumulating evidence of an association between pervasive cognitive deficits and schizophrenia, and support findings of an excess of multiply-affected families. They highlight the extent to which comorbidity is underestimated due to the administrative divide between mental health and intellectual disability services, leading to poor access to much-needed services. The data have been used by the Department of Health to develop policy for people with these special needs.

**Other environmental risk factors for schizophrenia: Influenza and season of birth**

*V Morgan, D Castle, A Jablensky*

In addition to obstetric complications, a number of studies have explored the association between other environmental exposures and schizophrenia. Publications to date include:

- Influenza epidemics and incidence of schizophrenia, affective disorders and mental retardation in Western Australia: No evidence of a major effect  
- Season of birth in schizophrenia and affective psychoses in Western Australia 1916-61  
- Schizophrenia and 1957 Pandemic of Influenza: Meta-analysis  

**The Australian perinatal mental health reforms: using population data to evaluate their impact on service utilisation and related cost-effectiveness**

*M-P Austin, E Sullivan, N Hightet, V Morgan, C Mihalopoulos, M Croft, S Vukovich in partnership with beyondblue.*

This NHMRC Partnership grant involves researchers from University of New South Wales, University of Western Australia and Deakin University in partnership with beyondblue. It uses population health data to examine the impact of National Perinatal Depression Initiative reforms on maternal health outcomes, service utilisation and the likely cost-effectiveness of these reforms. It employs four key methodologies: (i) data linkage; (ii) generation of perinatal-specific Medicare Benefits Schedule summary data; (iii) economic and policy analyses; and (iv) key stakeholder consultations in a consideration of the further implementation and evaluation of the National Perinatal Depression Initiative.

**TRANSLATION**

This study will fill a significant gap in the evidence-base on how key Australian perinatal mental health initiatives have met their goal of increasing service utilisation at this critical time for mother, infant and family. It has the potential to greatly advance the development and eventual inclusion of key mental health-related data elements in the Perinatal National Minimum Dataset and State-based Midwives/Perinatal data collections.
Mental illness and the law

V Morgan, F Morgan, G Valuri, S Shah, A Ferrante, D Castle, A Jablensky

Criminal offending
We have undertaken whole-population studies of:

• The prevalence and patterns of criminal offending in schizophrenia and other psychiatric disorders; and
• Area of residence and the impact of social disorganisation and urbanicity on offending by people with schizophrenia.

The first study indicated that the vast majority (89%) of offenders arrested between 1986 and 1996 did not have a mental illness. A comorbid substance abuse disorder significantly increased the risk of a violent offence for people with schizophrenia and, for the majority of offenders with a mental illness, their first arrest preceded their first contact with mental health services. A peak in the pattern of arrests in 1991-1993 for people with schizophrenia coincided with a period when community mental health services were poorly resourced to meet demands created by deinstitutionalisation of patients from psychiatric institutions.


The second study showed that the same area-level characteristics that generate high arrest rates for the population as a whole also generate high arrest rates for people with schizophrenia. These include: disadvantage, inequality, ethnic homogeneity and residential mobility. There is no evidence of a multiplier effect. However, compared to the general population, individuals with schizophrenia are more likely to be exposed to social disadvantage and other neighbourhood-level risk factors that predict offending in non-psychotic populations.


TRANSLATION
These findings have important implications for policy and program development in both criminal justice and mental health. They suggest that geographic areas characterised by high levels of social disorganisation require more investment in crime prevention, mental-health services and criminal justice responses.

Adult victimisation
The corollary of perpetrating criminal acts is being a victim of criminal behaviour. In a paper arising from the 2010 Australian National Survey of High Impact Psychosis (under review), we examined rates adult victimisation of people with psychotic illness. We found 39% of the survey sample had been victimised. Assault victimisation was high and, at 17%, was five times the rate found in the general community.

TRANSLATION
Victimisation impacts on psychopathology, course of illness and quality of life. However, neither childhood nor adult victimisation, nor their sequelae, especially post-traumatic stress disorder, are well recognised in clinical practice, leading to poor treatment of those affected. Therapies to improve social cognition may help those with psychotic illness recognise and manage threatening situations and adopt self-protective behaviours in order to reduce their risk of victimisation.

Projects in collaboration with WA Centre for Mental Health Policy Research

G Smith, T Williams, V Morgan, A Jablensky, D Young

Studies were undertaken in partnership with WA Centre for Mental Health Policy Research:

• Patterns of service use for people who have had a psychiatric inpatient admission; and
• long-term treatment outcomes in early psychosis specialist services.
The 2010 Australian National Survey of High Impact Psychosis (SHIP)

V Morgan, A Jablensky, A Waterreus, J Griffith, P Di Prinzio, S Shah

The aims of this survey were (i) to describe the prevalence and profile of psychosis in Australia and (ii) to identify factors associated with good outcomes in psychosis that are amenable to change and critical to recovery with the intention of informing policy development and service planning. The survey was an initiative of psychosis researchers and clinicians across Australia in partnership with the Australian Government Department of Health and Ageing. The Survey was led by staff in the Neuropsychiatric Epidemiology Research Unit including V Morgan (National Project Director), A Jablensky (Chief Scientific Advisor), A Waterreus (National Coordinator), J Griffith (WA Site Coordinator).

SHIP took place at seven sites in five states across Australia: NSW, QLD, SA, VIC and WA. It included questions about: symptoms, utilisation of mental health and other services; perceived need; education; cognition; social participation (work and skill development; activities of daily living; family responsibilities; other social engagement and community integration); living circumstances; support networks; physical well-being (including a physical health assessment; physical activity; nutrition; risk factors for metabolic syndrome and cardiovascular disease; smoking); and drug and alcohol use.

SHIP used a two-phase sampling design. Phase 1 screening for psychosis took place in the census month which was March 2010. In Phase 2, 1825 individuals aged 18-64 years were randomly selected, from those screen-positive for psychosis, and interviewed and assessed.

Survey of High Impact Psychosis: Study Design

Among other findings, SHIP data demonstrated the very poor physical health of people with a psychotic disorder:
Surveys of High Impact Psychosis:
Findings on Physical Health of Participants with Psychotic Illness

Papers from this study are available at: http://www.psychiatry.uwa.edu.au/research/neru/survey/researchers

Lead investigators of the SHIP Study Group that developed the survey protocol and continue to oversee the management and analysis of the survey data include: V Morgan (convenor), A Jablensky, A Waterreus, V Carr, D Castle, M Cohen, C Galletly, C Harvey, A Mackinnon, P McGorry, J McGrath, P Morgan, A Neil

The survey was unique in that it included data items not previously assessed contemporaneously and in depth in a large, unbiased sample. These included cognitive tests, a physical health assessment with fasting blood tests, detailed socio-demographic data, and data on the NGO sector. To date, there have been 40 publications. Data are being used by government bodies and NGOs to inform policy development, resource distribution and service planning.

North Metro Survey of High Impact Psychosis (North Metro SHIP)

V Morgan, A Waterreus, J Griffith, A Jablensky, P Di Prinzio, S Shah

This extension of the national SHIP survey, in WA North Metropolitan Area Health Services Mental Health, was funded by the Mental Health Commission and the Western Australian Department of Health. The survey census month was March 2012 with interviews taking place from April 2012 to April 2013. A cost analysis using the data collection has been completed.

This survey provided site-specific data to North Metropolitan Area Health Services Mental Health, including costs, which are currently being used to identify gaps in service planning and areas for policy development. Translation is through the North Metro SHIP Committee.

Rates for almost all physical health conditions were higher in people with psychosis compared to the general population aged 18-64 years.

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<tr>
<th>Physical health conditions</th>
<th>Cardiometabolic profile</th>
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<tbody>
<tr>
<td><strong>Chronic back, neck or other pain</strong></td>
<td><strong>Metabolic syndrome</strong> (%)</td>
</tr>
<tr>
<td>31.8</td>
<td><strong>(harmonised criteria)</strong></td>
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<tr>
<td>27.9</td>
<td>57.7</td>
</tr>
<tr>
<td>30.1</td>
<td><strong>Met threshold criteria for</strong></td>
</tr>
<tr>
<td><strong>Asthma</strong></td>
<td><strong>individual measures</strong> (%)</td>
</tr>
<tr>
<td>20.2</td>
<td><strong>Abdominal obesity</strong></td>
</tr>
<tr>
<td>19.3</td>
<td>82.1</td>
</tr>
<tr>
<td>26.8</td>
<td><strong>High density lipoproteins</strong></td>
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<tr>
<td>8.9</td>
<td>56.7</td>
</tr>
<tr>
<td>25.4</td>
<td><strong>Triglycerides</strong></td>
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<tr>
<td>15.0</td>
<td>53.5</td>
</tr>
<tr>
<td><strong>Arthritis</strong></td>
<td><strong>Blood pressure</strong></td>
</tr>
<tr>
<td>6.2</td>
<td>52.8</td>
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<tr>
<td>7.3</td>
<td><strong>Plasma glucose</strong></td>
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<tr>
<td>4.9</td>
<td>33.2</td>
</tr>
<tr>
<td><strong>Diabetes</strong></td>
<td></td>
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<tr>
<td>6.1</td>
<td><em>fasting</em></td>
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<tr>
<td><strong>Epilepsy</strong></td>
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<td>2.2</td>
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<tr>
<td><strong>Cancer</strong></td>
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<tr>
<td>1.0</td>
<td></td>
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<tr>
<td><strong>Kidney disease</strong></td>
<td></td>
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<tr>
<td>2.1</td>
<td></td>
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<tr>
<td><strong>Stroke</strong></td>
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<td>2.1</td>
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Proportion reporting physical condition, lifetime (%)
Survey of High Impact Psychosis WAve 2 (SHIP WAve 2)


This NHMRC-funded study builds on a rare opportunity to collect longitudinal data on a population-based sample of people with psychotic illness, first assessed comprehensively between 2010 and 2013. Its objective is to fill the knowledge gap on cardiometabolic disease risk modification in people with psychotic illness. To achieve this, its aims are to:

1. Determine factors associated with improvement and deterioration in cardiometabolic profiles in people with psychotic illness;
2. Examine impediments to the uptake of interventions for cardiometabolic disorders by people with psychotic illness; and
3. Work with services towards the development of a clinical service model for the implementation of targeted interventions within mental health services.

The study is following up, from 2013 to 2016, over 600 Western Australians with psychosis, thoroughly assessed in south metropolitan Perth as part of the 2010 National Survey of High Impact Psychosis (South Metro SHIP) and in 2012 in north metropolitan Perth in a SHIP expansion survey (North Metro SHIP). Follow up includes a face-to-face interview and a physical health assessment, augmented with data from health and prescribing registers.

**Translation**

*This observational study will provide unique information from an unbiased cohort followed up over two time points. The natural experimental design offers advantages over a clinical trial by capturing the range of people with psychosis and assessing behaviour in real world individual and service contexts. As such, it has a very high utility value for mental health service planning.*

The 1997-98 Study of Low Prevalence (Psychotic) Disorders (LPDS)

A Jablensky, V Morgan, A Waterreus, J Griffith

This was Australia's first national survey of psychosis. In addition to generating point prevalence data for psychotic disorders in urban areas in Australia for the first time, the study was unique in ascertaining symptom profiles, rates of functional impairments and disability, indices of quality of life, substance use comorbidity, service utilisation patterns, and side effects of medication. Subsequent economic analyses provided estimates of direct and indirect costs associated with psychotic disorders. Of note, this survey included marginalised people not in contact with treatment services in its sampling. Key papers and reports from this study are available at:


**Translation**

*For the first time, LPDS estimated the prevalence and cost of psychotic illness in Australia, and established nationally representative benchmark data on characteristics of those affected. A “best selling” product, still in high demand, was the Diagnostic Interview for Psychosis, developed by the WA group.*
# Personnel 2014

<table>
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<tr>
<th>Name</th>
<th>Title</th>
<th>Position</th>
<th>Institute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Vera Morgan</td>
<td>Winthrop Professor</td>
<td>Head: Neuropsychiatric Epidemiology Research Unit, UWA School of Psychiatry and Clinical Neurosciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Deputy Director (Epidemiology): UWA Centre for Clinical Research in Neuropsychiatry</td>
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<td></td>
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<td>Operational Epidemiologist: North Metropolitan Health Services Mental Health</td>
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<tr>
<td>Prof Assen Jablensky</td>
<td>Winthrop Professor</td>
<td>Senior Scientific Consultant</td>
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<tr>
<td>Dr Maxine Croft</td>
<td>Assistant Professor</td>
<td>Epidemiologist / Biologist</td>
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<tr>
<td>Ms Patsy Di Prinazio</td>
<td>Research Associate</td>
<td>Biostatistician</td>
<td></td>
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<tr>
<td>Ms Jenny Griffith</td>
<td>Project Manager</td>
<td>SHIP Wave2 deputy coordinator / Mental Health Clinical Research Nurse</td>
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<tr>
<td>Dr Ashleigh Lin</td>
<td>Post-doctoral fellow</td>
<td>Visiting research fellow / Post-doctoral fellow: Telethon Kids Institute</td>
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<tr>
<td>Ms Taryn Major</td>
<td>Assistant Professor</td>
<td>Biostatistician</td>
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<tr>
<td>Dr Sonal Shah</td>
<td>Assistant Professor</td>
<td>Data analyst (SHIP Survey) / Clinical Research Psychologist</td>
<td></td>
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<tr>
<td>Ms Giulietta Valuri</td>
<td>Assistant Professor</td>
<td>Epidemiologist / Criminologist</td>
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<tr>
<td>Ms Sharon Vukovich</td>
<td>Assistant Professor</td>
<td>Epidemiologist</td>
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<tr>
<td>Ms Anna Waterreus</td>
<td>Assistant Professor</td>
<td>North Metro SHIP coordinator / Coordinator SHIP WAve2</td>
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**SHIP Wave2 Survey**
- Field interviews: Kim Pedler
- Data entry: Joshua Castle
- Software development: Matt Walsh
<table>
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<tr>
<th>Funding Source</th>
<th>Investigators</th>
<th>Study Title</th>
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<tr>
<td>WA Dept of Health</td>
<td>Morgan V</td>
<td>Medical and Health Research Infrastructure Fund 2014 (Round 18)</td>
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<td>NH&amp;MRC</td>
<td>Morgan V</td>
<td>Impact of social adversity on the developmental trajectory to mental illness: A study of a whole-population cohort of children at familial high-risk for psychotic disorders</td>
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<td>177,825</td>
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<td>NHMRC</td>
<td>Jablensky A, McNeil T, Bjork J</td>
<td>Schizophrenia under the genomic lens: next generation sequencing of Western Australian families with schizophrenia</td>
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<td>UWA Faculty of Medicine, Dentistry and Health Sciences Near Miss Grant</td>
<td>Croft M</td>
<td>Healthy pregnancy outcomes for mothers with severe mental illness needing psychotropic medications during pregnancy</td>
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<td>Psychosis Australia seed funding</td>
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<td>WA Department of Health</td>
<td>Croft M, Morgan V, Jablensky A, Duke J</td>
<td>The location, scope and utility for use in research purposes of the WA Health Department’s inpatient pharmacy data</td>
<td>5,000</td>
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<td>NH&amp;MRC APP1046729</td>
<td>Morgan V, Jablensky A, Watts G, Badcock J, Cox K, Stefanis N</td>
<td>Overcoming barriers to improved physical health in people with severe mental illness</td>
<td>228,912</td>
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<td>NH&amp;MRC APP1028554</td>
<td>Austin M-P, Sullivan E, Higget N, Morgan V, Mihalopoulos C, Croft M</td>
<td>The Australian perinatal mental health reforms: using population data to evaluate their impact on service utilisation and related cost-effectiveness</td>
<td>NHMRC</td>
<td>184,040</td>
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<td>NH&amp;MRC APP1002259</td>
<td>Jablensky A, Morgan V, McNeil T, Abel K, Morgan F</td>
<td>Life course trajectories and neuropsychiatric outcomes in an e-cohort of high risk children of mothers with psychosis</td>
<td>➡️Continuing from 2011</td>
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*Only publications related to the work of the unit are included. A person may have publications in other research areas.*

**Journal Articles**


Published Abstracts


Reports

ORAL CONFERENCE PRESENTATIONS 2014


Morgan VA. Substance use in people with psychotic illness. *TheMHS Workshop: Meeting of the National Centre of Research Excellence in Mental Health and Substance Use*, Perth, 26 August 2014 (Invited keynote speaker)


POSTER PRESENTATIONS 2014


Maxine Croft  
Invited speaker: Healthy pregnancy outcomes for mothers with psychosis. WA Association of Chief Hospital Pharmacists Meeting. Graylands Hospital, 14 Apr 2014

Vera Morgan  
Invited speaker. Using State and National survey data (Survey of High Impact Psychosis - SHIP) to inform mental health services on an integrated approach to meet the multifaceted needs of people with psychotic illness. North Metropolitan Health Service Executive Partnership Group, 2 Apr 2014

Vera Morgan  
Invited speaker. Mental Illness Fellowship of Australia National Board Meeting, Perth, 1May 2014

Vera Morgan  
Beattie Smith 80th Anniversary Lecture 2014. A whole-person perspective on recovery for people with psychotic illness. Data from the Australian national psychosis survey on physical health, mental health, cognitive function and social participation. Melbourne, 7 May 2014

Vera Morgan  
Invited panel member. Meeting For Minds Mental Health Forum. Fremantle, 14-15 May 2014

Vera Morgan  
Invited lecture. Criminal offending and victimisation in people with psychotic illness - Risk Assessment and Treatment of Offenders Unit, Master of Criminal Justice course, Crime Research Centre, University of Western Australia. 16 May 2014

Vera Morgan  

Vera Morgan  
Invited speaker. The physical health of people with a psychotic illness. The University of Western Australia School of Medicine and Pharmacology Seminar Series, 29 May 2014

Vera Morgan  
Invited speaker. How the State and National Surveys of High Impact Psychosis (SHIP) can inform mental health services on an integrated approach to meet the multifaceted needs of people with psychotic illness. WA Mental Health Commission, 6 July 2014

Vera Morgan  
Invited speaker. Unravelling risk factors for schizophrenia and other neuropsychiatric outcomes. A Western Australian record-linkage research program. UWA School of Pathology and Laboratory Medicine’s 2014 Life Technologies Seminar series, 31 Oct 2014

Vera Morgan  
## POSTGRADUATE STUDENTS 2014

<table>
<thead>
<tr>
<th>Student</th>
<th>Degree</th>
<th>Topic</th>
<th>Dates</th>
<th>NERU supervisor</th>
<th>Supervisor(s)</th>
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<tbody>
<tr>
<td>G. Valuri</td>
<td>PhD</td>
<td>Criminal offending, victimization and schizophrenia</td>
<td>Started part-time 17 Sept 2010 (8 yrs part-time)</td>
<td>Prof Vera Morgan</td>
<td>VA Morgan (co-ordinating) FH Morgan AJ Jablensky</td>
</tr>
<tr>
<td>C. Harrison</td>
<td>PhD</td>
<td>Epidemiology of cardiovascular disease risk factors in the psychiatric population of WA</td>
<td>Started part-time 2009 (8 yrs part-time)</td>
<td>Prof Vera Morgan</td>
<td>VA Morgan (co-ordinating) M Dragovic AJ Jablensky J Laugharne</td>
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<tr>
<td>T. Major</td>
<td>M.Biostats</td>
<td>“Reproductive pathology and obstetric complications in a cohort of women with schizophrenia.” Workplace placement project.</td>
<td>Started part-time 2013 (course commenced part-time 2004)</td>
<td>Assist Prof Maxine Croft, Prof Vera Morgan</td>
<td>J Henstridge (co-ordinating)</td>
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## RESEARCH COLLABORATIONS AND ACTIVITIES 2014

### International

<table>
<thead>
<tr>
<th>External Collaborators</th>
<th>Affiliation</th>
<th>NERU collaborators</th>
<th>Area of collaboration</th>
<th>Outcomes 2014</th>
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</table>
| Prof Tom McNeil        | University of Lund, Sweden | All | Developmental pathways for the children of women with severe mental illness | Ongoing collaboration  
Advice on changes to the McNeil-Sjöström Scale  
Paper in early neurodevelopmental outcomes in progress  
Joint NHMRC grant 2015-2019 |
| Prof Jonas Björk       | University of Lund, Sweden | All | Developmental pathways for the children of women with severe mental illness | Ongoing collaboration  
Paper in early neurodevelopmental outcomes in progress  
Joint NHMRC grant 2015-2019 |
| Prof Mary Cannon       | Institute of Psychiatry, Royal College of Surgeons in Ireland | V Morgan | Adversity and psychosis | Joint NHMRC grant 2015-2019 |
| Prof Vidje Hansen, Dr Ingunn Skre | Institute for Psychology, University of Tromsø, Norway | A Jablensky V Morgan | Validation of Norwegian translation of the Diagnostic Interview for Psychosis.  
Establishing an international consortium for a multinational effort to develop and validate a new questionnaire | Meeting Padua, Italy in 2014  
Ongoing collaboration  
Joint publication |
## National

<table>
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<tr>
<th>External Collaborators</th>
<th>Affiliation</th>
<th>NERU collaborators</th>
<th>Area of collaboration</th>
<th>Outcomes 2014</th>
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<tbody>
<tr>
<td>Prof John McGath</td>
<td>University of QLD</td>
<td>V Morgan A Jablensky</td>
<td>Risk factor epidemiology</td>
<td>Joint NHMRC grant 2015-2019</td>
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<td>Psychosis Australia Trust</td>
<td>Psychosis Australia Trust</td>
<td>V Morgan A Jablensky</td>
<td>Psychosis research network</td>
<td>Executive committee member</td>
</tr>
<tr>
<td>Survey of High Impact Psychosis (SHIP) Study Group: Prof Vaughan Carr Prof David Castle Prof Cherrie Galletly Prof Carol Harvey Prof Assen Jablensky Prof John McGrath Prof Andrew Mackinnon Prof Pat McGorry Prof Vera Morgan (Chair) Dr Amanda Neil Dr Paul Morgan A/Prof Anna Waterreus</td>
<td>Universities and health services in WA, NSW, QLD, SA, VIC</td>
<td>V Morgan A Jablensky A Waterreus J Griffith</td>
<td>Survey of High Impact Psychosis (SHIP)</td>
<td>Joint publications</td>
</tr>
<tr>
<td>Other SHIP investigators: Dr Helen Stain (UK) Dr Debra Foley (VIC)</td>
<td></td>
<td>V Morgan A Jablensky A Waterreus</td>
<td>Survey of High Impact Psychosis (SHIP)</td>
<td>Joint publications</td>
</tr>
<tr>
<td>Prof Andrew Tonkin (VIC)</td>
<td>Monash University</td>
<td>V Morgan A Jablensky A Waterreus</td>
<td>Follow-up to the Survey of High Impact Psychosis (SHIP)</td>
<td>Joint NHMRC grant application</td>
</tr>
<tr>
<td>A/Prof Nadia Badawi</td>
<td>University of Sydney / The Children's Hospital at Westmead</td>
<td>M Croft</td>
<td>Revisions of McNeil Sjöström Scale (Perth version)</td>
<td>Development of algorithm for neonatal encephalopathy</td>
</tr>
<tr>
<td>Dr John Keogh</td>
<td>Consultant Obstetrician and Gynaecologist, Sydney Adventist Hospital</td>
<td></td>
<td>Validation of neonatal encephalopathy</td>
<td>Revision of McNeil Sjöström Scale (Perth version)</td>
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<tr>
<td>SANE Australia</td>
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<td>V Morgan</td>
<td>Survey of High Impact Psychosis (SHIP)</td>
<td>Membership of Clinical Expert Advisory Group</td>
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<td>External Collaborators</td>
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<td>A/Prof Frank Morgan David Preen</td>
<td>School of Population Health</td>
<td>V Morgan</td>
<td>Offending patterns in people with psychosis</td>
<td>Joint NHMRC application</td>
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<td>A/Prof Frank Morgan</td>
<td>School of Population Health</td>
<td>V Morgan A Jablensky</td>
<td>Victimisation and offending in people with psychosis</td>
<td>Joint publication</td>
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<td>Prof David Preen Prof Matt Knuliman Nita Sodhi-Berry</td>
<td>University of WA School of Population Health</td>
<td>V Morgan G Valuri S Shah</td>
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<td>Dr Melissa O'Donnell</td>
<td>Institute for Child Health Research</td>
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<td>Parental mental illness</td>
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<td>Dept of Health Western Australia (North Metro)</td>
<td>NMHS MH Health Data Informatics Committee</td>
<td>V Morgan</td>
<td>Operational epidemiology</td>
<td>NMHS MH Health Data Informatics Committee member</td>
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<td>Dept of Health Western Australia (North Metro)</td>
<td>Dept of Health Western Australia / Mental Health Commission</td>
<td>V Morgan A Waterreus J Griffith A Jablensky</td>
<td>Operational epidemiology</td>
<td>North Metro SHIP Committee Commissioned costs report</td>
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<td>Dept of Health Western Australia (North and South Metro)</td>
<td>Dept of Health Western Australia</td>
<td>V Morgan A Waterreus J Griffith A Jablensky</td>
<td>Operational epidemiology</td>
<td>SHIP WAve2 study</td>
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<td>Prof Gerald Watts A/Prof Kay Cox</td>
<td>UWA School of Medicine</td>
<td>V Morgan A Waterreus J Griffith A Jablensky</td>
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<tr>
<td>Prof J Badcock</td>
<td>Centre for Clinical Research in Neuropsychiatry</td>
<td>V Morgan S Shah</td>
<td>WA Family Study of Schizophrenia</td>
<td>Joint publications in progress Joint NHMRC grant 2014-2016</td>
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<tr>
<td>Prof A Jablensky*</td>
<td>Centre for Clinical Research in Neuropsychiatry</td>
<td>V Morgan</td>
<td>WA Family Study of Schizophrenia</td>
<td>Joint work on linked data for study participants NHMRC grant 2014-2016</td>
</tr>
</tbody>
</table>

* A Jablensky appears as both external and internal NERU collaborator for those projects that straddle his dual roles as Senior Scientific Consultant: Neuropsychiatric Epidemiology Research Unit and Director: Centre for Clinical Research in Neuropsychiatry
VISITORS: INTERNATIONAL AND NATIONAL 2014

February 2014  Professor Thomas McNeil, co-collaborator, University Hospital, Lund
March 2014  Christine Nyquist, clinical psychologist and PhD student, University of Tromsø

VISITORS: TALKS AND RELATED 2014

18 Feb 2014  Professor Thomas McNeil

Visitors from Sweden: Tom and Margareta McNeil
STAFF: AWARDS AND PRIZES 2014

UWA Faculty of Medicine, Dentistry and Health Sciences Near Miss Grant  
Maxine Croft

WA Health Department Merit Award  
Maxine Croft

Beattie Smith 80th Anniversary Medal, The University of Melbourne  
Vera Morgan

STAFF: FORMAL OFFICES HELD 2014

Casual member  
SIDS and Kids WA. Board of Management  
Maxine Croft

Board representative  
SIDS and Kids WA. Scientific Advisory Committee  
Maxine Croft

STAFF: CONFERENCE ORGANISING COMMITTEES 2014

Member  
Schizophrenia International Research Society. International Program Committee  
Vera Morgan

STAFF: EDITORIAL COMMITTEES 2014

Member  
Australian and New Zealand Journal of Psychiatry Advisory Board  
Vera Morgan

Member  
Social Psychiatry and Psychiatric Epidemiology Editorial Board  
Vera Morgan
<table>
<thead>
<tr>
<th>Role</th>
<th>Organization</th>
<th>Name</th>
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</thead>
<tbody>
<tr>
<td>Honorary Member</td>
<td>Information Technology Reference Group for Ngala, WA</td>
<td>Maxine Croft</td>
</tr>
<tr>
<td>Researcher representative</td>
<td>School of Psychiatry and Clinical Neurosciences: Research</td>
<td>Maxine Croft</td>
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<tr>
<td>Chair</td>
<td>National Survey of High Impact Psychosis (SHIP) Study Group</td>
<td>Vera Morgan</td>
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<tr>
<td>Member</td>
<td>North Metropolitan Area Health Service Mental Health Data Informatics Committee / North Metro SHIP Committee</td>
<td>Vera Morgan</td>
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<tr>
<td>Member</td>
<td>Intellectual Disability Exploring Answers (IDEA) Advisory Council and Ethics Committee</td>
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<td>Member</td>
<td>School of Psychiatry and Clinical Neurosciences: Research and Publications Committee</td>
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<td>Member</td>
<td>Schizophrenia Research Institute (NSW): Epidemiology and Population Health Panel / Access Committee</td>
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<td>Member</td>
<td>Australian Rotary Health Research Committee</td>
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<td>The Mental Health Needs of WA Reception Prisoners Steering Group</td>
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PERSONNEL: CURRENT PROFILE

Maxine CROFT

EPIDEMIOLOGIST / BIOLOGIST: Neuropsychiatric Epidemiology Research Unit/ Honorary Research Fellow, Centre for Child Health Research, University of Western Australia
+61 8 9224 0287
Maxine.Croft@uwa.edu.au

Maxine Croft is a computer scientist and epidemiologist who has been a consultant to WHO on database design. As a consultant to the Federal government on diabetes research, she proposed the (now accepted) recording of Medicare numbers on PBS prescriptions. Her doctoral research resulted in creation of the WA Twin Child Health registry and she uses linked population data to measure risk of recurrence of reproductive outcomes. She has modified an electronic version of the McNeil Sjöström scoring system to include a broader range of maternal diseases. This Perth version will also include longitudinal measures of maternal chronic disease.

Research interests
• Perinatal epidemiology
• Schizophrenia
• Longitudinal measures of maternal health
• Obstetric complications
• Database management

Patsy Di PRINZIO

BIOSTATISTICIAN: Neuropsychiatric Epidemiology Research Unit
+61 8 9224 0231
patsy.diprinzio@uwa.edu.au

Patsy Di Prinzio is a biostatistician with high level mathematical and statistical computing skills and excellent written communication abilities. She has extensive knowledge of most appropriate statistical techniques to analyse a wide range of data and the ability to present resultant information in a form which is most accessible to broad audiences. Her experience includes consulting in applied statistics in private, government, and university sectors, as well as teaching experience in government and university.

Research interests
• Applied statistics
• Epidemiology of schizophrenia and other psychotic disorders
• Automation of data management, analysis and results presentation as a linked process
Jenny GRIFFITH
RN RMHN BAAppSc(Nursing)
GradDipArtsCounselling
PGDipMentalHealthNursing

Jenny Griffith is Deputy Coordinator for the Survey of High Impact Psychosis (SHIP) Wave2. She was Deputy Coordinator for North Metro SHIP and the WA site Coordinator for National SHIP. Jenny was an interviewer in the 1998 National Survey of Low Prevalence (Psychotic) Disorders. Since 2004, she has also managed the collection of qualitative mental health data in the Pathways study, including the review of clinical casenotes, to complete the Diagnostic Interview for Psychosis (DIP), the Children’s Checklist and Life Histories.

Research interests
• Life histories of people with severe mental illness
• Metabolic syndrome in people with severe mental illness
• Role of mental health nurses in research

Assen JABLENSKY
MD DMedSc FRCPsych
FRANZCPsych

Assen Jablensky completed his medical degree and training as a psychiatrist in Bulgaria and the UK, and has worked as a researcher and clinician in Switzerland (WHO, Geneva), the US (Stanford University) and, since 1993, Australia, where he is director of the Centre for Clinical Research in Neuropsychiatry of the University of Western Australia in Perth. He has over 290 publications, including articles in peer-reviewed journals, book chapters and monographs. He has been award the Strömgren Prize and medal for psychiatric epidemiology; the Australasian Society for Psychiatric Research Founders Medal, the Organon Senior Research Award, and several other distinctions including Honorary Fellowship of the Royal College of Psychiatrists (UK).

Research interests
• psychiatric epidemiology
• genetics of schizophrenia
• classification of mental disorders
Ashleigh LIN

Ashleigh Lin is a NHMRC Early Career Fellow at the Telethon Kids Institute in Perth. She completed her training as a clinical neuropsychologist and her PhD in Melbourne before working as a research fellow in the UK. Ashleigh’s research interest is in youth mental health, with a particular focus on risk for schizophrenia. Ashleigh is undertaking a component of her post-doctoral research with the NERU team, examining educational outcome as a predictor for psychotic illness.

Research interests
- youth mental health and risk for schizophrenia

Taryn MAJOR

Taryn Major is a mechanical engineer and statistician working towards her Master of Biostatistics through the Biostatistics Collaboration of Australia. Her current work on reproductive pathology and obstetric complications in mothers with schizophrenia and other psychotic disorders forms part of her course requirements. In 2015, Taryn’s research at NERU will focus on evaluating reproductive pathology as a risk factor for mental health services utilisation by women in WA and NSW. She will also continue to work as a consultant statistician at Data Analysis Australia, where she has responsibility for complex statistical analyses across a variety of industries and applications. Taryn’s areas of expertise include modelling, survey design and analysis, forecasting and risk analysis. Having previously worked as a mechanical engineer in the mining industry, she has also developed valuable project management skills and experience in developing fit-for-purpose solutions to complex problems.

Research interests
- Applied statistics / Biostatistics
- Epidemiology of schizophrenia and other psychotic disorders
- Reproductive pathology and mental health services utilisation
Vera MORGAN

HEAD: Neuropsychiatric Epidemiology Research Unit / DEPUTY DIRECTOR: Centre for Clinical Research in Neuropsychiatry

+61 8 9224 0235
vera.morgan@uwa.edu.au

BA GradDipEd MSocSc PhD

Vera Morgan is a psychiatric epidemiologist with a special interest in the epidemiology of schizophrenia and other psychotic disorders. Her current program of research focuses on environmental (especially obstetric) and genetic contributions to the risk of schizophrenia, as well as physical health comorbidity, including metabolic syndrome and cardiovascular disease, in people with psychotic illness. Her expertise is in the area of epidemiological data design, management and analysis, and she has wide experience using record-linked population health and criminological databases. She was project director and convenor of the Technical Advisory group for the 2010 national psychosis survey. Her professional roles have included: President of the Australasian Society for Psychiatric Research, Vice-President of the Australasian Epidemiological Association and Chair of the Research Committee of the Mental Health Council of Australia.

Research interests
- Epidemiology of schizophrenia and other psychoses
- Risk factor epidemiology
- Cardiometabolic disease and psychotic illness
- Intellectual disability and psychotic disorders
- Criminal offending and mental illness

Sonal SHAH

DATA ANALYST (SHIP SURVEY) / CLINICAL RESEARCH PSYCHOLOGIST: Neuropsychiatric Epidemiology Research Unit

+61 8 9224 0288
sonal.shah@uwa.edu.au

BSC(HonsPsych) PhD

Dr Shah’s main interest and research focus is in the identification of adverse risk factors associated with schizophrenia. Within the Pathways project, her aim is to investigate outcomes for offspring of mothers with schizophrenia using both register data and clinical casenotes. She has developed an effective method for the manual mapping of affected children’s life histories using register and clinical casenotes data. She also plays a key role in management and analysis of data for the national Survey of High Impact Psychosis (SHIP), North Metro SHIP and SHIP Wave2. Prior to her work in NERU, Sonal was involved in a large study (as part of her PhD project) on hormonal and non hormonal factors associated with cognitive function. An important and novel finding was the association between circulating androgen levels and cognitive function. She was awarded the AMS award for the most meritorious contribution to the field of menopause in 2006 and best overall presentation in 2001.

Research interests
- Childhood abuse and mental illness
- Offspring mortality for mothers with mental illness
- Cognitive reserve and psychosis
- Inflammatory markers and hormonal influences on cognitive function
Giulietta VALURI

Giulietta Valuri is a computer scientist and an epidemiologist who has worked in injury prevention research and with linked WA population databases in both criminology (patterns of offending) and mental health. Her research has included validating mental health diagnoses and studying patterns of offending in people with a mental illness. Her current research focuses on measuring and mapping children’s health status using WA data from linked statewide health registers and constructing offending profiles for these children using criminal offending data. Her expertise is in the areas of database management and design, and analytical techniques.

Research interests
- Epidemiology of schizophrenia and other psychotic disorders
- High risk children of parents with severe mental illness
- Criminal offending and mental illness

Sharon VUKOVICH

Sharon Vukovich is a research analyst and computer programmer whose skills include software development and database management. She has experience working with linked WA population databases. Her current project is a joint University of Western Australia / University of New South Wales / Deakin University study of the impact of perinatal mental health reforms on service utilisation by women in the perinatal period.

Research interests
- Perinatal mental health
- Software development
Anna WATERREUS

DipNursingStudies NZRN
GradDipClinEpid

Anna Waterreus is a Nurse who has a Post Graduate Diploma in Clinical Epidemiology and has been involved in psychiatric research for the last 25 years. Currently she is the Coordinator for the Survey of High Impact Psychosis WAve2. She was also involved in the first and second Australian surveys of psychosis (the Low Prevalence (Psychotic) Disorders Survey and the Survey of High Impact Psychosis (SHIP) and the North Metro SHIP study). Previously she worked in Old Age Psychiatry, UWA and the Institute of Psychiatry London and has an interest in depression in general practice and the role of nurses in metabolic syndrome.

Research interests
- Metabolic syndrome
- Mental health surveys
- Physical activity
- Cannabis use in mental health

Stephanie Gee (Senior Administrative Officer)
NERU Location and contact details

Neuropsychiatric Epidemiology Research Unit
School of Psychiatry & Clinical Neurosciences
University of Western Australia M571
Level 3,
Medical Research Foundation (MRF) Building,
Rear 50 Murray Street
Perth
Western Australia 6000
See orange zone No. 5 on the map below.

Contact details
Ms Stephanie Gee
PH: +61-(0)8-9224-0290
FAX: +61-(0)8-9224-0285
EMAIL: stephanie.gee@uwa.edu.au
## APPENDIX 1a. Research Funding 2004-2011 ($)

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<td>Jablensky A</td>
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<td>Scoping a national survey of high impact psychosis (SHIP): Phase 1</td>
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<td>Jablensky A, Kalaydjieva L, Badcock J, Kendler K, Morgan, V, Riley B</td>
<td>Genetics of cognitive impairment in schizophrenia</td>
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<td>Fetal origin of adult disease? A population-based study of the offspring of women with severe mental disorders</td>
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## APPENDIX 1b. Research Funding 1995-2003 ($)

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<td>Criminal behaviour as an outcome in schizophrenia</td>
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<td>Population linkage studies of preventable comorbidity in people with mental illness</td>
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<td>Reproductive pathology in women with schizophrenia and bipolar affective disorder: An epidemiological &amp; clinical study</td>
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<td>Royal Perth Hospital Medical Research Foundation</td>
<td>Jablensky A, Castle D, Page A, Petterson B</td>
<td>Influenza epidemics and incidence of CNS disorders in Western Australia</td>
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2013

Journal Articles


Morgan VA, Morgan F, Valuri G, Ferrante A, Castle D and Jablensky A. A whole-of-population study of the prevalence and patterns of criminal offending in schizophrenia and other psychiatric disorders. Psychological Medicine, 2013, 43, 1869 - 1880


Books and Chapters


Published abstracts


Other publications


2012

Journal Articles


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Published abstracts


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Morgan V. National psychosis survey: mapping use of services. *New Paradigm* 2012, Autumn, 30-36

Waterreus A on behalf of the SHIP Study Group: *SHIP Participant Summary Report*, 2012

Waterreus A on behalf of the SHIP Study Group: *SHIP NGO Summary Report*, 2012
2011

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Morgan VA and Jablensky AV. From inventory to benchmark: quality of psychiatric case registers in research. *British Journal of Psychiatry*. 2010, 197, 8-10
Selten J-P and Morgan VA. Prenatal Exposure to Influenza and Major Affective Disorder. *Bipolar Disorders*. 2010, 12, 753-754
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Jablensky, AV. The future of high risk research. Schizophrenia Bulletin 2009. 35 Suppl. 1: 73-74


2008

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Hauck, Y., Rock, D.J.T., Jackiewicz, T. and Jablensky, A.V. Healthy babies for mothers with serious mental illness: a case management framework for mental health clinicians. International Journal of Mental Health Nursing, 17(6), 383-391.[Not in Thomson ISI]


Swanson PB, Kane RT, Pearsall-Jones JG, Swanson CF, Croft ML. How couples cope with the death of a twin or higher order multiple. Twin Research and Human Genetics (accepted July 2008) [IF 2007: 1.525]

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Valuri GM, Croft ML, Morgan VA, Jablensky A. The high risk children of mothers with schizophrenia and other severe mental illness: modelling risk from conception to disease. Schizophrenia Research, 2008, 102, Suppl. 2, 169

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Jablensky, A. Does psychiatry need an overarching concept of “mental disorder”? World Psychiatry, 2007, 6, 157-158
Jablensky, A. Living in a Kraepelinian world: Kraepelin’s impact on modern psychiatry. History of Psychiatry, 2007, 18, 381-388

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Morgan, V.A. and Jablensky, A.V. Exploring the role of reproductive pathology in the etiology of schizophrenia: What happens when mothers with schizophrenia give birth?, *Directions in Psychiatry*, 2006, 26, 1-15

Shah, S, Bell RJ, Davis SR. Homocysteine and cognitive decline after menopause. *Climacteric*, 2006 9 (2) 77-87


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2005

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Jablensky, A. Categories, dimensions and prototypes: Critical issues for psychiatric classification, *Psychopathology*, 2005, 38, 201-205

Jablensky, A. The long and winding road of schizophrenia research, *Epidemiologia E Psichiatria Sociale*, 2005, 14, 179-183

Jablensky, A. Boundaries of mental disorders, *Current Opinion in Psychiatry*, 2005, 18, 653-658


2004

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Hansen J, Alessandri, PT, Croft ML, Burton, PR, de Klerk NH. The Western Australian Register of childhood multiples: Effects of questionnaire design and follow-up protocols on response rates and representativeness. Twin Research 2004, 7, 149-161

Jablensky A. Researching psychiatry in Western Australia. Australian and New Zealand Journal of Psychiatry 2004, 38, 306-315

Jablensky A. The syndrome – an antidote to spurious comorbidity? World Psychiatry 2004, 3, 24-25


Reports

Croft M and Ferrante A. A Review of the Data Matching Processes of the Cervical Cytology Registry for the Western Australian Cervical Cancer Prevention Program. Commissioned by the Women’s Cancer Prevention Program of the WA Department of Health 2004


2003

Journal Articles


Kendell, R.V. and Jablensky, A. Distinguishing between the validity and utility of psychiatric diagnoses, American Journal of Psychiatry, 2003, 160, 4-12


Morgan, V., Janca, A. and Jablensky, A. Psychotic disorders in Australia: patients respond to national survey results, European Psychiatry, 2003, 18, 142

Morgan, V. Two-phase sampling designs for rare outcomes, Australasian Epidemiologist, 2003, 10, 2-3

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2001

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Lawrence D, Almeida O, Hulse G, Jablensky A Suicide and attempted suicide among older adults in Western Australia. Psychological Medicine 2000, 30, 813-821

Morgan V, Janca A. Revisiting the journal impact factor. Australasian Psychiatry 2000, 8, 230-235

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1999

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Blanchard MR. Waterreus A. Mann AH. Can a brief intervention have a longer-term benefit? The case of the research nurse and depressed older people in the community. International Journal of Geriatric Psychiatry. 1999, 14(9):733-8


Jablensky A. The conflict of the nosologists: views on schizophrenia and manic depressive illness in the early part of the 20th century. Schizophrenia Research 1999, 39, 95-100


Jablensky A. The nature of psychiatric classification: issues beyond ICD-10 and DSM-IV. Australian and New Zealand Journal of Psychiatry 1999, 33, 137-144


Jablensky A Psychiatric epidemiology and the global public health agenda. International Journal of Mental Health 1999, 28, 6-14

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Reports


Journal Articles


Reports


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1997

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Jablensky A. The 100-year epidemiology of schizophrenia. *Schizophrenia Research* 1997, 28, 111-125


Stanley FJ, Read AW, Kurinczuk JJ, Croft ML, Bower C. A population maternal and child health research data base for research and policy evaluation in Western Australia. *Seminars in Neonatology* 1997, 2, 195-201

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Croft M, Ferrante A. The corporate data warehouse project data matching project. Commissioned by WA Ministry of Justice 1997

Croft M. A description of the availability, accessibility and utility of the major health data bases relevant to research into the incidence, prevalence, management and health outcomes of diabetes in Western Australia. Commissioned by Diabetes Australia (WA) 1997

Croft M. A Proposal to establish a diabetes registry in Western Australia using record linkage. Commissioned by Diabetes Australia (WA) 1997


**1996**

**Journal Articles**


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**Reports**

Croft M. A feasibility study of the probabilistic record linkage of the NSW Road Traffic Authority’s Road Traffic Accident data base to the NSW Inpatient statistics collection records for 1993/94. Commissioned by NSW Health Department 1996


**1995**

**Journal Articles**


Jablensky A. Kraepelin’s legacy: paradigm or pitfall for modern psychiatry? *European Archive of Psychiatry and Clinical Neuroscience*, 1995, 245, 186-188


**Books and Chapters**


**Reports**

Croft M. *Report on the linkage of the NSW Neonatal Intensive Care Unit Study data base to the 1992 NSW Midwives’ Data Collection*. Commissioned by NSW Health Department 1995

