The University of Western Australia
School of Psychiatry and Clinical Neurosciences

Neuropsychiatric Epidemiology Research Unit (NERU)
Annual Report
2009
2010
2011

1995-2008 Historical appendices
NERU.
A mountain in Himavā. All birds settling there become golden
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Neuropsychiatric Epidemiology Research Unit

Figure 1.
Organisational structure, Neuropsychiatric Epidemiology Research Unit, 2012

Neuropsychiatric Epidemiology Research Unit Organisational structure 2012

UWA School of Psychiatry and Clinical Neurosciences
Aleksandar Janca

School support:
Administrative: S Gee
IT: C Lee / D Brown

Centre for Clinical Research in Neuropsychiatry
Assen Jablensky

Neuropsychiatric Epidemiology Research Unit
Vera Morgan

Epidemiology: record-linked data*
Maxine Croft
Patsy Di Prinzio
Sonal Shah
Giulietta Valuri

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

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

North Metro
SHIP survey
John Dean
Kim Pedler
Mika Sommer
Hannah Castle

*Data expertise:
psychiatric/physical morbidity
obstetric complications
birth defects
intellectual disability
adversity
child protection
education
criminal offending
mortality
RESEARCH PROGRAMS

Pathways of risk from conception to disease: a population-based study of the offspring of women with schizophrenia, bipolar disorder and other psychotic disorders

V Morgan, G Valuri, M Croft, J Griffith, S Shah, P Di Prinzio, S Zubrick, C Bower, T McNeil, D Young, F Morgan, K Abel, A Jablensky

Our aim in this study 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 psychosis.

This is a whole-of-population record linkage study, using linkage across psychiatric, physical morbidity, mortality and other administrative registers in Western Australia to follow up a large whole-of-population cohort of 467,945 children born between 1980 and 2001 to 246,874 mothers. This includes 15,486 births to 7508 mothers with a psychotic illness.

In the course of this study, we have developed and refined a number of instruments, including the Diagnostic Interview for Psychoses (casenotes version) and the Children’s Checklist, extended the McNeil-Sjöström Scale for Obstetric Complications; and developed measures of neonatal encephalopathy and maternal morbidity over time. We are also developing measures of adversity using our record linked data. Using quantitative and qualitative data, we are constructing developmental life course histories for a subsample of the children in our study.

Currently, we are examining the following outcomes for offspring;
- mortality, with a particular focus on Sudden Infant Death Syndrome;
- intellectual disability and rare syndromes;
- early developmental outcomes;
- reproductive pathology;
- education outcomes;
- adversity as a predictor;
- risk of victimisation (based on child protection data); and
- risk of offending.

The Australian National Survey of High Impact Psychosis (SHIP)

V Morgan, A Jablensky, A Waterreus, J Griffith, Patsy Di Prinzio, Sonal Shah

The aims of this survey are (i) to describe the prevalence and profile of psychosis in Australia and (ii) to identify factors associated with good outcome in psychosis that are amenable to change and critical to recovery with the intention of informing policy development and service planning. The survey is an initiative of psychosis researchers and clinicians across Australia in partnership with the Australia Government Department of Health and Ageing. It is a follow-up to the first Australian National Survey of Low Prevalence (Psychotic) Disorders, conducted 1997-98 by Prof Assen Jablensky. It is
collecting national data that will provide an evidence base for understanding barriers to
good outcomes for people with psychosis, including their social and economic integration.
SHIP asks 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 is taking place at
seven sites in five states across Australia: NSW, QLD, SA, VIC and WA. It uses a two-phase
sampling design. Phase 1 screening for psychosis took place in the census month which was
March 2010. In Phase 2, 2000 individuals aged 18-64 were randomly selected for
participation, from those screen-positive for psychosis, to be interviewed and assessed. The
interview phase was completed at the end of 2010. Analysis of the data is underway with a
final report due by the end of 2011.

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

V Morgan, A Waterreus, J Griffith, A Jablensky, Patsy Di Prinzio, Sonal Shah

This replication of the national SHIP survey, in North Metropolitan Area Health Services
Mental Health, has been funded by the Mental Health Commission and the Western
Australian Department of Health. The survey census month will be March 2012 with
interviews taking place from April to December 2012. The aims are to:
- estimate the local prevalence of psychosis in North Metropolitan Area Health Service;
- describe the social and economic circumstances of people living with psychosis within
  North Metro, as well as their mental and physical health profiles and their use of
  services;
- develop a local evidence base to help inform mental health policy development and
  service providers in North Metro,
- develop services to meet specific local needs to benefit people living with psychosis,
  their friends, family, carers and services supporting them.

Schizophrenia and criminal offending

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

The overarching objective of the current study is to use a methodologically sound,
population-based research design to provide reliable data on the association between
offending and serious mental illness, and to explore the possible mechanisms for any
association found. The specific aims of the study are:
- to obtain estimates of the prevalence and incidence of offending in individuals with a
diagnosis of schizophrenia compared to the population base rate, and the rate
associated with psychiatric disorders other than schizophrenia; and
- to describe the profile of offending in individuals with schizophrenia and to see
whether it differed from offending by individuals with psychiatric diagnoses other than
schizophrenia, and individuals with criminal histories who did not have a psychiatric
diagnosis.

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 Hight, V Morgan, C Mihalopoulos, M Croft, in partnership with
beyondblue.

- Mental health problems associated with the perinatal period - defined as from
  conception to the end of the first postnatal year - are recognised as a major public
  health issue with significant morbidity and costs for mother, infant, and family. Left
  untreated they may impact on the health of the next generation. The last decade has
seen a burgeoning of perinatal mental health initiatives in Australia, including the National Perinatal Depression Initiative (NPDI), yet there is currently a gap in our understanding of how these initiatives have met their goal of improving maternal mental health outcomes through improved uptake of services, at this critical time. This unique project will use population health data to examine the impact of the reforms on maternal health outcomes, service utilisation and the likely cost-effectiveness of these reforms.

- The project will use four key methodologies to achieve its objectives: 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 Depression Initiative NPDI.

- The findings from this project will facilitate improvements in the recognition, prevention, and treatment of mental health morbidity among perinatal women. It will provide information for the provision of effective mental health services to this vulnerable and eminently accessible population. This project will empower beyondblue, as our Partner Organisation, to use the findings to strengthen collaborations, advocate for a cohesive approach to the future implementation of the NPDI, and influence policy and decision making at jurisdictional and national levels. From an international perspective, this project will put Australia at the forefront of policy planning, analysis and cost-effectiveness evaluation in the field of perinatal mental health.

**Long-term treatment outcomes in early psychosis specialist services**

*G Smith, T Williams, V Morgan, D Young*

The aim of this study is to evaluate the long-term effects of treatment in a specialist early intervention in psychosis (EIP) service—specifically, whether people in an EIP service have better short- and long-term outcomes when compared with people in standard treatment services. The study will obtain up to 10 years of data on people in the Bentley and Rockingham/ Kwinana specialist EIP services and a matched comparison control group that has received standard treatment in generic mental health services in metropolitan Perth. The study uses a retrospective design, with the key outcome measures including psychiatric admissions, time to re-admission, service use and death.

**Patterns of service use for people who have had a psychiatric inpatient admission**

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

This project has constructing a database for exploring inpatient demand within the mental health system. Its aim is to determine groups/subgroups of persons who use inpatient services based on their socio-demographic and clinical characteristics and identify trends and changes in patterns of care over time. A key objective is to use the data to identify existing and potential strategies for reducing demand on inpatient services.
METHODOLOGIES and APPROACHES

Record linkage across population-based registers

The Neuropsychiatric Epidemiology Research Unit 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) to study prevalence, incidence, aetiology and risk factors. To the end, it has established an e-Cohort of high risk children born to mothers with schizophrenia and other psychoses. Unit researchers are expert at designing and developing sophisticated hierarchical data models for linking, interrogating and analysing data across registers and through generations. Operationalising and validating key constructs using register data (e.g. diagnosis; neonatal encephalopathy; socioeconomic status; adversity) is a priority.

Multigenerational approach

In work utilising the e-Cohort of high risk children of mothers with psychosis, the focus has been on the role of genetic and environment risk factors, and their interaction, in the onset of schizophrenia and other psychoses. Sibships among offspring have been constructed and determination of the family relationship (for example, full sibling or half sibling) is possible. Some children have become parents themselves, so we are now collecting data for three generations. A sophisticated hierarchical data model has been implemented to reflect the multiple relationships in the data.

Clinical casenotes review

Register data are supplemented by psychiatric data extracted from clinical casenotes by experienced mental health nursing professionals. Several instruments have been developed for this purpose including an adaptation of the Diagnostic Interview for Psychosis for use with children’s casenote data, and the Children’s Checklist that was developed internally specifically for the collection of data for children on substance misuse, psychotropic medication use, behavioural problems, neurocognitive data and psychopathology not recorded in the Diagnostic Interview for Psychosis.

Survey-based research

The Neuropsychiatric Epidemiology Research Unit is experienced in the design, instrument development and coordination of large national multisite surveys including, in 1997-98, the first national survey of psychosis, the Low Prevalence (Psychotic) Disorders Study, in 2010, the second national Survey of High Impact Psychosis (SHIP) and, in 2012, the North Metro Survey of High Impact Psychosis (North Metro SHIP).
INSTRUMENT DEVELOPMENT

Diagnostic Interview for Psychosis (full versions: LPDS and SHIP)

The Diagnostic Interview for Psychoses (DIP) is a semi-structured interview for psychoses for use in epidemiological and clinical settings. It is designed to provide a diagnosis, as well as to assess symptom profiles (present state, past year and lifetime), social functioning, disablement, service utilisation and need. The DIP was developed specifically for the Low Prevalence (Psychotic) Disorders Study (LPDS) 1997-98 and greatly expanded for the Survey of High Impact Psychosis (SHIP) 2010. A Diagnostic Module, described separately below, is central to the DIP. The revised (SHIP) version are includes modules on: sociodemographics; education; employment; housing; finances; activities of daily living; child care; caring; socialising; self harm; victimisation and offending; satisfaction with life; inpatient treatment; emergency/casualty treatment; outpatient treatment; public community mental health; community rehabilitation and day therapy; general practice service; non government agencies; medication use; mental health care & unmet need; other psychopathology and cognition; drug and alcohol use and smoking, and physical health.

Diagnostic Interview for Psychosis – Diagnostic module (DIPweb-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 has been written to 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 and Bulgaria.

Psychosis Screen

The Psychosis Screen was developed specifically for the Low Prevalence (Psychotic) Disorders Study 1997-98 and further modified for the Survey of High Impact Psychosis 2010. It is a brief instrument (one page) covering 8 items and takes 1-2 minutes to complete. There are patient and keyworker versions.

Brief Cognitive Assessment Tool

As part of the Survey of High Impact Psychosis 2010, a need was identified for a Brief Cognitive Assessment Tool 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, including the range of potential complications 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 indicating the number of complications of a particular severity level for each of three time periods (pregnancy, labour and delivery, and the neonatal period) as well as producing an overall score. A computer algorithm automates 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 available on the Midwives Database to produce a full estimate of maternal morbidity at the time of childbirth.

Children’s Checklist

Children’s Checklist is an instrument developed within 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.

Instrument validity and reliability

Testing the psychomteric properties of instruments used and/or developed including their validity and inter-rater reliability where appropriate, and assessing the reliability and validity of key constructs is an ongoing priority for the Unit.
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof Vera Morgan</td>
<td>Professor</td>
<td>Unit Head / Operational Epidemiologist</td>
</tr>
<tr>
<td>Prof Assen Jablensky</td>
<td>Winthrop Professor</td>
<td>Senior Scientific Consultant / Director: Centre for Clinical Research in Neuropsychiatry</td>
</tr>
<tr>
<td>Dr Maxine Croft</td>
<td>Assistant Professor</td>
<td>Epidemiologist / Biologist</td>
</tr>
<tr>
<td>Ms Patsy Di Prinzio</td>
<td>Research Associate</td>
<td>Statistician</td>
</tr>
<tr>
<td>Ms Jenny Griffith</td>
<td>Project Manager</td>
<td>WA Site coordinator for National SHIP survey / Mental Health Clinical Research Nurse</td>
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<tr>
<td>Dr Agung Riono</td>
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<td>Epidemiologist</td>
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<td>Assistant Professor</td>
<td>Data analyst (SHIP Survey) / Clinical Research Psychologist</td>
</tr>
<tr>
<td>Ms Cate Simpson, OAM</td>
<td>Senior Research Officer</td>
<td>Mental Health Clinical Research Nurse</td>
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<td>Ms Carmel Ryan</td>
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<td>Ms Anna Waterreus</td>
<td>Assistant Professor</td>
<td>National Coordinator for SHIP Survey</td>
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<td>Assistant Professor</td>
<td>National Coordinator for SHIP Survey</td>
</tr>
</tbody>
</table>

Interviewers: National SHIP Survey
- Richard Bush
- Paula Edwards
- Leslie-Anne Niven
- Grahame Roddis
- Kirsty Scholes

Data entry: National SHIP Survey
- Hannah Castle
Prof Vera Morgan  Professor  Unit Head / Operational Epidemiologist
Prof Assen Jablensky  Winthrop Professor  Senior Scientific Consultant / Director: Centre for Clinical Research in Neuropsychiatry
Dr Maxine Croft  Assistant Professor  Epidemiologist / Biologist
Ms Patsy Di Prinzio  Research Associate  Statistician
Ms Jenny Griffith  Project Manager  WA Site coordinator for National SHIP survey / North Metro SHIP deputy coordinator / Mental Health Clinical Research Nurse
Dr Sonal Shah  Assistant Professor  Data analyst (SHIP Survey) / Clinical Research Psychologist
Ms Giulietta Valuri  Assistant Professor  Epidemiologist / Criminologist
Ms Anna Waterreus  Assistant Professor  National Coordinator for SHIP Survey / North Metro SHIP coordinator
<table>
<thead>
<tr>
<th>Funding Source</th>
<th>Investigators</th>
<th>Study Title</th>
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<tr>
<td>NHMRC Partnership Grant APP1028554</td>
<td>Austin M-P Sullivan E Highet 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>
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<td>304,125</td>
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<td>WA Dept of Health</td>
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<td>North Metropolitan Survey of High Impact Psychosis</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>274,701</td>
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<td>NH&amp;MRC #513874</td>
<td>Jablensky A Kalaydjieva L Segal M Badcock J Wiltshire S Price G Morgan V</td>
<td>Memory synaptic plasticity and gene networks in schizophrenia</td>
<td>454,250</td>
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<td>Jablensky A Morgan V</td>
<td>Children of parents with mental illness: a population-based study</td>
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<td>March of Dimes Research Foundation #12-FY07-224</td>
<td>Jablensky A Morgan V Bower C Zubrick S Croft M</td>
<td>A population-based study of obstetric, developmental and neuropsychiatric outcomes in the offspring of women with severe mental disorders</td>
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<tr>
<td>Aust. Govt. Dept of Health and Ageing</td>
<td>Morgan V Jablensky A</td>
<td>National survey of high impact psychosis (SHIP): Phase 3</td>
<td>3,300,000</td>
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</table>
# PUBLICATIONS 2009

*Only publications related to the work of the unit are included. A person may have publications in other research areas.*

## Journal Articles


## Books and Chapters


## Published abstracts

Jablensky, AV. The future of high risk research. *Schizophrenia Bulletin* 2009. 35 Suppl. 1: 73-74

PUBLICATIONS 2010

*Only publications related to the work of the unit are included. A person may have publications in other research areas.*

**Journal Articles**


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


**Published abstracts**


*Only publications related to the work of the unit are included. A person may have publications in other research areas.*

**Journal Articles**


**Books and Chapters**


**Published abstracts**


**Reports**

ORAL CONFERENCE PRESENTATIONS 2009

2009


Morgan F, Morgan V, Valuri G, Ferrante A, Clare J, Castle D, Jablensky A. Patterns of offending over time, place and population: The contribution of record linkage to our understanding of criminal offending and schizophrenia. *Western Australian Justice Health Forum*, Perth 11 March 2009


Shah S, Bell R, McKenzie D, Kulkarni J, Davison, S and Davis S. Living with others, doing crosswords and playing musical instruments are associated with more favourable cognitive function levels in women in the community. *Australian Society for Psychiatric Research Annual Meeting*, Canberra, 2-4 Dec 2009.


ORAL CONFERENCE PRESENTATIONS 2010

2010


ORAL CONFERENCE PRESENTATIONS 2011

2011


Croft ML, Morgan V, Mc Neil T, di Prinzio P, Valuri G, Jablensky A. Maternal severe mental illness, co-occurring other illnesses and social disadvantage: have these changed since the campaign to reduce the risk of Sudden Infant Death Syndrome? Australasian Epidemiological Association Conference, Perth, 19-21 Sept 2011

Croft ML, Morgan V, di Prinzio P, Valuri G, Mc Neil T, Jablensky A. Maternal severe mental illness, co-occurring other illnesses and social disadvantage: have these changed since the campaign to reduce the risk of Sudden Infant Death Syndrome? Marcé Society, Fremantle, 2011.


POSTER PRESENTATIONS 2009

Badcock J & Morgan V. Improving communication in mental health research: It takes time. *Australasian Society for Psychiatric Research Annual Meeting, Canberra, 2-4 Dec 2009* (awarded the Australasian Society for Psychiatric Research-Schizophrenia Fellowship Consumer-Researcher Award)


POSTER PRESENTATIONS 2010


Waterreus A, Morgan V, Badcock J. Informed consent: not just what participants need to know but how we tell them. An example from the Australian National Survey of High Impact Psychosis (SHIP). *Australasian Society for Psychiatric Research Annual Meeting, Sydney, Dec 2010*
### OTHER TALKS AND PRESENTATIONS 2009

<table>
<thead>
<tr>
<th>Speaker</th>
<th>Presentation</th>
<th>Location, Date</th>
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<tbody>
<tr>
<td>Vera Morgan</td>
<td>Invited speaker. <em>New insights into psychiatric morbidity using cross-linked data.</em></td>
<td>Dept of Health Centre, 5 Feb 2009</td>
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<td></td>
<td>Guest lecturer. <em>Writing to be read - Research Methods: Master of Criminal Justice</em></td>
<td>Course on Crime Research, 21 Aug 2009</td>
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<td>Invited speaker. <em>Perspectives on using register data to study schizophrenia: The rewards and the challenges.</em></td>
<td>Inaugural meeting of the Schizophrenia Research Institute, Sydney, 15 Sept 2009</td>
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<td>Invited speaker. <em>Survey of High Impact Psychosis (SHIP)</em>. WA Association for Mental Health Sector Forum, Perth, 8 Dec 2009</td>
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OTHER TALKS AND PRESENTATIONS 2010

Vera Morgan

Anna Waterreus
Guest Lecturer. Mental Health Nursing and Research. Post Graduate Certificate in Mental Health, The University of Notre Dame, Fremantle, May & Sept 2010
Diagnostic Interview for Psychosis (DIP) training course. (Indonesian users). CCRN, Perth Jan 2010
OTHER TALKS AND PRESENTATIONS 2011

Patsy Di Prinzio

Presenter. *Krippendorf’s Alpha: Is it as good as it sounds?* WA Young Statisticians’ Workshop, Tompkins on Swan, 27 September 2011.

Vera Morgan

Invited speaker. A profile of Australians with psychosis: Findings from the 2010 Australian National Survey of High Impact Psychosis (SHIP). *UWA School of Psychiatry and Clinical Neurosciences: Friday Seminar*, Centre for Clinical Research in Neuropsychiatry, Graylands Hospital, 2 Dec 2011


Invited speaker. An update on the Australian National Survey of High Impact Psychosis (SHIP). *Schizophrenia Research Institute Cognition and Epidemiology face-to-face meeting*, Sydney, 10 June 2011

Roundtable meetings on: (i) measuring obstetric complications using register data; (ii) issue in the use of psychiatric case registers; and (iii) Australian National Survey of High Impact Psychosis (SHIP). *University of NSW Research Unit for Schizophrenia Epidemiology*, Sydney, 9 June 2011


Anna Waterreus

Guest Lecturer. *Mental Health Nursing and Research. Post Graduate Certificate in Mental Health, The University of Notre Dame*, Fremantle, April 2011
### RESEARCH COLLABORATIONS AND ACTIVITIES 2009-2011

#### International

<table>
<thead>
<tr>
<th>External Collaborators</th>
<th>Affiliation</th>
<th>NERU collaborators</th>
<th>Area of collaboration</th>
<th>Outcomes 2009-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Barbara Fish</td>
<td>UCLA</td>
<td>A Jablensky V Morgan</td>
<td>High risk children of women with severe mental illness</td>
<td>Convened and contributed to symposium in Dr Fish’s honour at International Congress on Schizophrenia Research, San Diego</td>
</tr>
<tr>
<td>Prof Tom McNeil</td>
<td>University of Lund, Sweden</td>
<td>All</td>
<td>Developmental pathways for the children of women with severe mental illness</td>
<td>Ongoing collaboration Advice on changes to the McNeil-Sjöström Scale</td>
</tr>
<tr>
<td>Dr Jean-Paul Selten</td>
<td>University of Maastricht, The Netherlands</td>
<td>V Morgan</td>
<td>Environmental risk factors for schizophrenia</td>
<td>Joint paper (2009) Submission of joint abstract, SIRS conference Venice 2010</td>
</tr>
<tr>
<td>A/Prof Kathryn Abel</td>
<td>University of Manchester, UK</td>
<td>V Morgan M Croft</td>
<td>Obstetric complications in women with severe mental illness</td>
<td>Protocol for replicated publication on SIDS outcomes for offspring of women with severe mental illness drafted. Analysis commenced. Joint book chapter in press</td>
</tr>
<tr>
<td>Dr Judith Jaeger</td>
<td>AstraZeneca US</td>
<td>A Jablensky V Morgan A Waterreus</td>
<td>Multidimensional Scale of Independent Functioning (MSIF)</td>
<td>MSIF incorporated into SHIP interview schedule Training visit, Perth</td>
</tr>
<tr>
<td>Dr Alberto Rossi Prof Michella Tansella</td>
<td>University of Verona, Italy</td>
<td>A Jablensky V Morgan</td>
<td>Diagnostic Instrument for Psychosis (DIP) Italian version</td>
<td>Joint paper (2010)</td>
</tr>
<tr>
<td>Dr Ingunn Skre</td>
<td>Institute for Psychology, University of Tromsø. Norway</td>
<td>A Jablensky V Morgan</td>
<td>Validation of Norwegian translation of the Diagnostic Interview for Psychosis.</td>
<td>Co-investigators on Norwegian research collaboration funding application</td>
</tr>
<tr>
<td>Prof Christina Hultman</td>
<td>Karolinska Institute, Sweden</td>
<td>V Morgan A Jablensky</td>
<td>Obstetric complications in women with severe mental illness</td>
<td>Joint book chapter (2009)</td>
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### National

<table>
<thead>
<tr>
<th>External Collaborators</th>
<th>Affiliation</th>
<th>NERU collaborators</th>
<th>Area of collaboration</th>
<th>Outcomes 2009-2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prof David Castle</td>
<td>University of Melbourne</td>
<td>V Morgan A Jablensky G Valuri</td>
<td>Offending patterns and psychiatric illness</td>
<td>Paper in draft Joint conference presentations</td>
</tr>
<tr>
<td>Prof David Castle</td>
<td>University of Melbourne</td>
<td>A Waterreus</td>
<td>Metabolic Syndrome</td>
<td>National metabolic survey of Australian psychiatrists completed Paper in draft</td>
</tr>
<tr>
<td>Prof John McGrath</td>
<td>University of Queensland</td>
<td>V Morgan A Jablensky</td>
<td>Environmental risk factors for schizophrenia</td>
<td>Joint book chapter (2009) Keynote speaker at international symposium organised by V Morgan</td>
</tr>
<tr>
<td>Survey of High Impact Psychosis (SHIP) Technical Advisory Committee: Prof Robert Bush Prof Vaughan Carr Prof David Castle Assoc. Prof Cherrie Galletly Prof Carol Harvey Barbara Hocking Prof Assen Jablensky Prof John McGrath Prof Andrew Mackinnon Prof Pat McGorry Prof Vera Morgan (Chair) Dr Amanda Neil Dr Helen Stain Assist. 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>Completion of SHIP survey. Publications in progress</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) Validation of neonatal encephalopathy</td>
<td>Protocol developed for cerebral palsy study Development of algorithm for neonatal encephalopathy Revision of McNeil Sjöström Scale (Perth version)</td>
</tr>
<tr>
<td>Dr John Keogh</td>
<td>Consultant Obstetrician and Gynaecologist, Sydney Adventist Hospital</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SANE Australia</td>
<td></td>
<td>A Waterreus V Morgan</td>
<td>Survey of High Impact Psychosis (SHIP)</td>
<td>Brochure for consumers</td>
</tr>
</tbody>
</table>
# Neuropsychiatric Epidemiology Research Unit

**ANNUAL REPORT 2009-2011**

## State

### External Collaborators

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>NERU collaborators</th>
<th>Area of collaboration</th>
<th>Outcomes 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr Eve Blair</td>
<td>Institute for Child Health Research</td>
<td>M Croft</td>
<td>Validation of the Australian version of the McNeil Sjöström Scale Scoring System using clinical case notes from the Cerebral Palsy International Case Control Study.</td>
<td>Protocol for validation has been developed and scores have been calculated for all children with cerebral palsy.</td>
</tr>
<tr>
<td>Jan de Groot</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Linda Watson</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Dr Frank Morgan</td>
<td>University of WA Crime Research Centre</td>
<td>V Morgan G Valuri  A Jablensky</td>
<td>Offending patterns and psychiatric illness</td>
<td>Joint publication (in draft) and conference presentations</td>
</tr>
<tr>
<td>Anna Ferrante</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Joe Clare</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Maller</td>
<td>University of WA Crime Research Centre</td>
<td>V Morgan A Jablensky</td>
<td>Software development</td>
<td>Diagnostic Instrument for Psychosis (DIP) software revised. DIPweb version implemented SHIP software developed</td>
</tr>
<tr>
<td>Matt Walsh</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof Carol Bower</td>
<td>Institute for Child Health Research</td>
<td>All</td>
<td>Environmental risk factors and developmental pathways in schizophrenia</td>
<td>Joint conference presentations and papers</td>
</tr>
<tr>
<td>Prof Steve Zubrick</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dr Danny Rock</td>
<td>Dept of Health Western Australia / Centre for Clinical Research in Neuropsychiatry</td>
<td>A Jablensky* V Morgan</td>
<td>Follow-up to the 2005 publication in the American Journal of Psychiatry on obstetric complications in women with psychosis</td>
<td>Joint conference presentation</td>
</tr>
<tr>
<td>A/Prof Yvonne Hauke</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prof A Jablensky*</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Dr Geoff Smith</td>
<td>Dept of Health Western Australia</td>
<td>V Morgan A Jablensky</td>
<td>Study of High Users of Psychiatric Services</td>
<td>Analyses underway. Joint conference presentation</td>
</tr>
<tr>
<td>A/Prof Theresa Williams</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Dr Geoff Smith</td>
<td>Dept of Health Western Australia</td>
<td>V Morgan</td>
<td>Long-term outcomes of early intervention in psychosis</td>
<td>Funding from Mental Health Commission. Commenced.</td>
</tr>
<tr>
<td>A/Prof Theresa Williams</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dept of Health Western Australia (North Metro)</td>
<td>Dept of Health Western Australia</td>
<td>V Morgan</td>
<td>Operational epidemiology</td>
<td>Move to SLA-based catchments</td>
</tr>
<tr>
<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 N Stefanis</td>
<td>Operational epidemiology</td>
<td>North Metro SHIP survey</td>
</tr>
<tr>
<td>Prof A Jablensky*</td>
<td>Centre for Clinical Research in Neuropsychiatry</td>
<td>A Jablensky*</td>
<td>WA Family Study of Schizophrenia</td>
<td>Joint work on linked data for study participants</td>
</tr>
<tr>
<td>Dr Jon Laugharne</td>
<td>School of Psychiatry and Clinical Neurosciences</td>
<td>A Waterreus</td>
<td>Metabolic Syndrome</td>
<td>Joint Paper National metabolic survey of Australian psychiatrists completed</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 2009-2011: INTERNATIONAL AND NATIONAL

19-21 May 2009  NERU hosted 3-days training for national site coordinators of the Survey of High Impact Psychosis (SHIP) and the Survey of High Impact Psychosis (SHIP) National Technical Advisory Committee meeting

21 May 2009  NERU hosted the Survey of High Impact Psychosis (SHIP) Technical Advisory Committee meeting

21 May 2009  Survey of High Impact Psychosis (SHIP) design meeting: Prof Andrew Mackinnon and Prof Vera Morgan

14 July 2009  Roundtable with Prof Nikos Stefanis, Mental Health Research Institute, University of Athens Medical School, Eginition Hospital, Athens, Greece

16 Nov 2009  Dr Judith Jaeger: Workshop on the Multidimensional Scale of Independent Functioning / Talk

16 Mar 2010  Roundtables and one-to-one meetings: Vaughan Carr and staff from the Research Unit for Schizophrenia Epidemiology, University of NSW (Elizabeth Maloney, Felicity Harris)

2 Nov 2010  Prof Vidje Hansen and Associate Professor Ingunn Skre, University of Tromsø: Meetings and roundtable on Norwegian translation of the DIP and potential research collaborations

8-18 Nov 2010  Prof Tom McNeil, Lund University, Sweden: Research visit and round tables
## VISITORS 2009-2011: TALKS AND RELATED

<table>
<thead>
<tr>
<th>Date</th>
<th>Visitor</th>
<th>Title</th>
<th>Location</th>
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<tbody>
<tr>
<td>16 March 2009</td>
<td>Dr David Coall</td>
<td>Talk. Role that a woman’s childhood psychosocial environment plays in her growth, development and reproduction.</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>4 May 2009</td>
<td>Mrs Maureen Furr</td>
<td>Workshops. Voice training 1 and Voice training 2</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>11 May 2009</td>
<td>Dr Margaret Jones PhD</td>
<td>Round table. Research funding</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>14 July 2009</td>
<td>Prof Nikos Stefanis</td>
<td>Round table. Epidemiological research program</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>16 Nov 2009</td>
<td>Dr Judith Jaeger</td>
<td>Talk. Functional disability as biological epiphenomenon of disease: Measurement using the Multidimensional Scale of Independent Functioning (MSIF)</td>
<td>Centre for Clinical Research in Neuropsychiatry</td>
</tr>
<tr>
<td>16 Nov 2009</td>
<td>Dr Judith Jaeger</td>
<td>Workshop. Multidimensional Scale of Independent Functioning (MSIF)</td>
<td>Centre for Clinical Research in Neuropsychiatry</td>
</tr>
<tr>
<td>24 Aug 2010</td>
<td>Assoc Prof Anna Ferrante</td>
<td>Talk. Research overview</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>2 Nov 2010</td>
<td>Assoc Professor Ingunn Skre</td>
<td>Talk. Norwegian twin and family studies of mental disorders / North-Norwegian epidemiological study of internalisation symptoms in indigenous Sami and Norwegian youth</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>2 Nov 2010</td>
<td>Prof Vidje Hansen</td>
<td>Talk. Psychiatric epidemiology and health services research in Tromsø, north Norway</td>
<td>Neuropsychiatric Epidemiology Research Unit</td>
</tr>
<tr>
<td>12 Nov 2010</td>
<td>Prof Tom McNeil</td>
<td>Talk. ‘Forever young’ or just temporarily immature? A half-century empirical perspective on “pandysmaturation” and the neurodevelopmental basis of schizophrenia Plus dessert!</td>
<td>Centre for Clinical Research in Neuropsychiatry</td>
</tr>
</tbody>
</table>
STAFF: AWARDS AND PRIZES 2009

Australasian Society for Psychiatric Research-Schizophrenia Fellowship Consumer-Researcher Award (lead author: Jo Badcock) (2009)  Vera Morgan

UWA Supplementary Travel Grant (2009)  Sonal Shah

UWA Supplementary Travel Grant (2009)  Deidra Young

STAFF: AWARDS AND PRIZES 2010

STAFF: AWARDS AND PRIZES 2011

UWA Supplementary Travel Grant (2011)  Anna Waterreus
STAFF: FORMAL OFFICES HELD 2009

Elected Councillor  Parents and Friends Federation of WA Inc.  Patsy Di Prinzio
Senator          University of Western Australia Senate  Vera Morgan
WA representative  Australasian Society for Psychiatric Research  Giulietta Valuri
Academic member  University of Western Australia Academic Board  Deidra Young

STAFF: FORMAL OFFICES HELD 2010

Elected Councillor  Parents and Friends Federation of WA Inc.  Patsy Di Prinzio
Senator          University of Western Australia Senate  Vera Morgan
WA representative  Australasian Society for Psychiatric Research  Giulietta Valuri

STAFF: FORMAL OFFICES HELD 2011

WA representative  Australasian Society for Psychiatric Research  Giulietta Valuri
<table>
<thead>
<tr>
<th><strong>STAFF: CONFERENCE ORGANISING COMMITTEES 2009</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Convenor/Chair</strong></td>
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<tr>
<td><strong>Organising Committee</strong></td>
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<table>
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<th><strong>STAFF: CONFERENCE ORGANISING COMMITTEES 2010</strong></th>
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<tbody>
<tr>
<td><strong>Scientific Committee</strong></td>
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<th><strong>STAFF: CONFERENCE ORGANISING COMMITTEES 2011</strong></th>
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<tbody>
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<td><strong>Organising / Scientific Committee</strong></td>
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<tr>
<td><strong>Organising / Scientific Committee</strong></td>
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<tr>
<td>Role</td>
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<tr>
<td>---------------------------</td>
</tr>
<tr>
<td>Honorary Member</td>
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<tr>
<td>Chair</td>
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<tr>
<td>Chair</td>
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<tr>
<td>Member</td>
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<td>Committee member</td>
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<tr>
<td>Webmaster</td>
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<td>Committee member</td>
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<tr>
<td>PEGnet mailing list</td>
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<tr>
<td>administrator</td>
</tr>
<tr>
<td>Member</td>
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<td>Member</td>
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<thead>
<tr>
<th>Role</th>
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<th>Name</th>
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<tbody>
<tr>
<td>Honorary Member</td>
<td>Information Technology Reference Group for Ngala, WA</td>
<td>Maxine Croft</td>
</tr>
<tr>
<td>Chair</td>
<td>National Survey of High Impact Psychosis (SHIP) Phase 3 Technical Advisory Committee</td>
<td>Vera Morgan</td>
</tr>
<tr>
<td>Member</td>
<td>North Metropolitan Area Health Service Mental Health Data Management Working Group</td>
<td>Vera Morgan</td>
</tr>
<tr>
<td>Committee member</td>
<td>Intellectual Disability Exploring Answers (IDEA) Advisory Council and Ethics Committee</td>
<td>Vera Morgan</td>
</tr>
<tr>
<td>Committee member</td>
<td>School of Psychiatry and Clinical Neurosciences: Research, Publications and Postgraduate Studies Committee</td>
<td>Vera Morgan</td>
</tr>
<tr>
<td>Committee member</td>
<td>Schizophrenia Research Institute (NSW): Epidemiology and Population Health Panel</td>
<td>Vera Morgan</td>
</tr>
<tr>
<td>Webmaster</td>
<td>Australasian Society for Psychiatric Research</td>
<td>Giulietta Valuri</td>
</tr>
<tr>
<td>Committee member</td>
<td>Australasian Epidemiology Association, Perth Chapter</td>
<td>Giulietta Valuri</td>
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<tr>
<td>PEGnet mailing list administrator</td>
<td>Perth Epidemiology Group</td>
<td>Giulietta Valuri</td>
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<tr>
<td>Member</td>
<td>National Survey of High Impact Psychosis (SHIP) Phase 3 Technical Advisory Committee</td>
<td>Anna Waterreus</td>
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## Staff: Other Committee Membership 2011

<table>
<thead>
<tr>
<th>Role</th>
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<th>Chair/Member</th>
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<tr>
<td>Honorary Member</td>
<td>Information Technology Reference Group for Ngala, WA</td>
<td>Maxine Croft</td>
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<tr>
<td>Chair</td>
<td>North Metro Survey of High Impact Psychosis (North Metro SHIP) Phase 3 Technical Advisory Committee</td>
<td>Vera Morgan</td>
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<tr>
<td>Chair</td>
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<td>Vera Morgan</td>
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<tr>
<td>Member</td>
<td>North Metropolitan Area Health Service Mental Health Data Management Working Group</td>
<td>Vera Morgan</td>
</tr>
<tr>
<td>Committee member</td>
<td>Intellectual Disability Exploring Answers (IDEA) Advisory Council and Ethics Committee</td>
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<td>Perth Epidemiology Group</td>
<td>Giulietta Valuri</td>
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<tr>
<td>Member</td>
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<td>Anna Waterreus</td>
</tr>
<tr>
<td>Member</td>
<td>National Survey of High Impact Psychosis (SHIP) Phase 3 Technical Advisory Committee</td>
<td>Anna Waterreus</td>
</tr>
</tbody>
</table>
Maxine CROFT

EPIDEMIOLOGIST / BIOLOGIST:
Neuropsychiatric Epidemiology Research Unit/ Honorary Research Fellow, Centre for Child Health Research, University of Western Australia
+61 8 9224 0288
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

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

Patsy Di Prinzio is a statistician 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 BAApplSc(Nursing)
GradDipArtsCounselling
PGDipMentalHealthNursing

Jenny Griffith is WA site coordinator for the National Survey of High Impact Psychosis (SHIP) and Deputy Coordinator for North Metro SHIP. She is a registered nurse with 20 years clinical experience, mostly in mental health. 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) and the Children’s Checklist.

Research interests
- Adversity and children with a mentally ill parent
- 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 awarded 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
Vera MORGAN

HEAD: Neuropsychiatric Epidemiology Research Unit / OPERATIONAL EPIDEMIOLOGIST: Centre for Clinical Research in Neuropsychiatry

+61 8 9224 0235
vmorgan@cyllene.uwa.edu.au

Vera Morgan is a psychiatric epidemiologist with a special interest in the epidemiology of schizophrenia and other psychotic disorders. Her current program of research includes a special focus on environmental (especially obstetric) and genetic contributions to the risk of schizophrenia. 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. 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 psychotic disorders
- Risk factor epidemiology
- Intellectual disability / cognitive deficit
- Criminal offending and mental illness
- High risk children of parents with severe mental illness

Sonal SHAH

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

+61 8 9224 0231

Dr Shah is assistant professor with the UWA School of Psychiatry & Clinical Neurosciences. Her 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 has also started to play a key role in the management and analysis of data for the Survey of High Impact Psychosis (SHIP). Prior to her work in NERU, Sonal was involved in a large study (as part of her PhD project) investigating hormonal and non hormonal factors associated with cognitive function. An important and novel finding of this project 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 and work in 2001.

Research interests
- Adversity and schizophrenia
- Cognitive reserve and psychosis
- Inflammatory markers and cognitive function
- Hormonal influences (in particular DHEAS) 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

Anna WATERREUS

Anna Waterreus is a Nurse who has a Post Graduate Diploma in Clinical Epidemiology and has been involved in psychiatric research for the last 20 years. Currently she is the National Coordinator for the Survey of High Impact Psychosis. She was also involved in the first Australian survey of psychosis (the Low Prevalence (Psychotic) Disorders Survey). Previously she worked in Old Age Psychiatry and has an interest in depression in general practice and the role of nurses, in metabolic syndrome and in old age psychiatry.

Research interests
- Metabolic syndrome
- Depression & old age
- Mental health surveys
- Mental health nursing
Stephanie Gee (Senior Administrative Officer)
Neuropsychiatric Epidemiology Research Unit
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University of Western Australia M571
Level 3, Medical Research Foundation (MRF) Building,
Rear 50 Murray Street
Perth
Western Australia 6000

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 2002-2008 ($)

<table>
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<td>Memory synaptic plasticity and gene networks in schizophrenia</td>
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<td>Schizophrenia and offending: area of residence and the impact of social disorganisation and disadvantage</td>
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### APPENDIX 1b. Research Funding 1995-2002 ($)

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<td>Royal Perth Hospital Medical Research Foundation</td>
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APPENDIX 2. SELECTED PUBLICATIONS 1995-2008 (Epidemiology)

2008

Journal Articles


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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Reports


Published abstracts


**2007**

*Journal Articles*

Jablensky, A. Does psychiatry need an overarching concept of “mental disorder”? *World Psychiatry*, 2007, 6, 157-158


*Books and Chapters*


2006

**Journal Articles**


2005

**Journal Articles**

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


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Journal Articles

2004


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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2002

**Journal Articles**


Morgan V. What can record linkage contribute to psychiatric epidemiology? *Australasian Epidemiologist* 2002, 9 (2), 25-29


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**Reports**


2001

Journal Articles

Books and Chapters

Reports
2000

**Journal Articles**


Jablensky A. The concept of schizophrenia: pro et contra. *Epidemiologia e Psichiatria Sociale* 2000, 8, 242-247


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

**Journal Articles**

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


Croft M. Record linkage of the NSW Registrar General’s registrations of deaths to the NSW Inpatient statistics collection records for 1995/96 coronary artery bypass graft patients. Commissioned by NSW Health Department, 1998.
1997

Journal Articles

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

Published conference proceedings


Books and Chapters


Reports

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**


**Books and Chapters**


**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

