

Queensland Government

Metro North Health

Metro South Health

Addiction and Mental Health Services

Evaluation of a community residential program in Brisbane

Bridging the research paradigm into clinical practice

A/Prof Stephen Parker ^{1,2,3,4,5}

¹ Griffith University, School of Medicine
² University of Queensland, School of Medicine
³ Metro North Mental Health
⁴ Metro South Addiction and Mental Health Services
⁵ World Association for Psychiatric Rehabilitation - Australia

NSW Rehabilitation Psychiatry Network Meeting 29/03/2022

Acknowledgements

I acknowledge the Cammeraygal people, their elders past, present and emerging who are the traditional custodians of the land on which we meet today.

The research described in this presentation reflects the collective efforts and contributions of consumers and many collaborators from MSAMHS, The University of Queensland, The Queensland Mental Health Benchmarking Unit, and The University of the Sunshine Coast.

Disclosures

In the past 5 years I have received honoraria from Johnson & Johnson, and Queensland Psychotherapy Training. Additionally, research funding has been provided by RANZCP, Suicide Prevention Australia, The Prince Charles Foundation, the PA Foundation, Metro North Foundation, and the Mental Health Alcohol and Other Drugs Branch (Qld).

I also have a non-remunerated role on the board of Mantle Housing Ltd. Why should we try to integrate research into clinical practice?

The Fifth National Mental Health and Suicide Prevention Plan







We live and work in a world where mental health policy is often informed by opinion rather than evidence...

We also live in a country where policy reform has failed to deliver over successive decades...

Check for updates

Policy and service development implications of the second Australian National Survey of High Impact Psychosis (SHIP)

New Zealand College of Psychiatrists 2012 Reprints and permission: sagepub.co.uk/journalsPerm (SAGE

School of Psychiatry, University of New South Wales, Sydney, Australia

³Oueencland Centre for Mental Health Research, Brisbane, Australia

School of Population Health, University of Queensland, Brisbane,

⁵Mental Health, Alcohol and Other Drugs Directorate, Queensland

⁷Centre for Youth Mental Health, University of Melbourne, Australia

Vaughan J Carv, Research Unit for Schizophrenia Epidemiology, Level 4,

⁶Orygen Youth Health Research Centre, Melbourne, Australia

O'Brien Centre, St Vincent's Hospital, 394-404 Victoria Street

Schizophrenia Research Institute, Sydney, Australia

Vaughan J Carr^{1,2}, Harvey Whiteford^{3,4}, Aaron Groves⁵, Patrick McGorry^{6,7} and Alana M Shepherd^{1,2}

Abstract

Objective: We consider insights from the second Australian National Survey of High Impact Psychosis (2010) in order to identify the key policy and service development implications.

Method: The Survey of High Impact Psychosis (SHIP) provides an updated description of the experiences of people liv-Ing with psychosis in Australia. We discuss the SHIP survey participants' greatest challenges for the future in light of the strength of existing literature, highlighting prospective opportunities for policy and service planning.

Results: Targets for future policy development and service initiatives are informed by the survey participants' leading challenges: financial difficulties, social isolation, lack of employment, physical and mental ill health, accommodation, and access to services.

Conclusions: Many of the areas of need identified by survey participants are supported by quality research that may be more widely translated into effective services. For areas of need where the evidence is lacking, more clinical research is urgently needed. A targeted approach is vital to secure necessary investment in the wider dissemination of efficacious interventions and their systematic evaluation in ordinary clinical practice, enabled by both research investment and active integration of the research effort within ordinary clinical settings.

Australia

Health, Brisbane, Australia

Corresponding author

Keywords

Psychosis, national survey, policy, service planning

Introduction

Among the psychoses, schizophrenia and bipolar disorder Australia and the shortcomings of treatment systems and have been ranked among the top five causes of disease bur-other support services (e.g. Commonwealth of Australia, den due to disability in those aged 15-44 worldwide, and 1993; Mental Health Council of Australia, 2005), Media together account for almost 10% of total disease burden in reports have repeatedly highlighted failings in mental this age group (World Health Organization, 2001). In health care for these people. The first National Survey of Australia, it is generally considered that nearly all people Mental Health and Wellbeing in 1997 strongly influenced with these severe disorders are in treatment or have been treated at some time (Andrews et al., 2003), although definitive evidence for this is lacking. In contrast, people with the more common but less severe mental disorders, such as anxiety, depression and substance misuse, as surveyed by the Australian Bureau of Statistics in 2007 (Slade et al., 2009), often do not seek or receive treatment. Treatment for mental disorders can be expensive. The costs of treating the psychoses are particularly high, largely due to frequency of hospitalisation, and the costs of lost productivity are twice as high again (Carr et al., 2003). But there has often been dissatisfaction with treatment delivery systems. A string of reports since the early 1990s has documented

Darlinghurst, NSW 2010, Australia. the plight of people with severe mental disorders in Email: v.carr@unew.edu.au

Australian & New Zealand Journal of Psychiatry, 46(8)

ANZ.IP Australian & New Zealand journal of Psychiatry 46(8) 708-718 DOI: 10.1177/0004867412446488 © The Royal Australian and



ANZ JP

Key Body

ette recent findings from the 2010 Australian Sarvey of High Impact Psychosis or future policy and planning to improve mental health, physical health and other ey of High Impact Psychosis collected nationally representative data on 1825 people with psychotic i

exhits Neuroscokeens, School of Business and Chevel Neuroscopes. The University of Western Assessity Crew

HEALTH CARE

Australian mental health reform: time for real outcomes

Social and occupational outcomes for young people who attend early intervention mental health services: a longitudinal study

Frank Iorfino¹ O, Joanne S Carpenter¹, Shane PM Cross¹, Jacob Crouse¹ O, Tracey A Davenport¹, Daniel F Hermens², Hannah Yee¹, Alissa Nichles¹, Natalia Zmicerevska¹, Adam Guastella¹, Elizabeth M Scott¹, Ian B Hickie¹ O

Objective: To identify trajectories of social and occupational

Design: Longitudinal, observational study of young people

and clinical factors that influence these trajectories.

presenting for mental health care.

follow-up data were available for analysis.

2008 - 31 July 2018.

arm or suicidality.

functioning in young people during the two years after presenting

for early intervention mental health care; to identify demographic

Setting: Two primary care-based early intervention mental health

Participants: 1510 people aged 12-25 years who had presented

with anxiety, mood, or psychotic disorders, for whom two years'

Main outcome measures: Latent class trajectories of social and

occupational functioning based on growth mixture modelling of Social and Occupational Assessment Scale (SOFAS) scores.

Results: We identified four trajectories of functioning during the

first two years of care: deterioration and volatile (733 participants

9%); persistent impairment (237, 16%); stable good functioning

(291, 19%); and improving, but late recurrence (249, 16%). The

less favourable trajectories (deteriorating and volatile; persistent

pairment) were associated with physical comorbidity, not being

sorders, having been hospitalised, and having a childhood onset

education, employment, or training, having substance-related

nental disorder, psychosis-like experiences, or a history of self-

Conclusions: Two in three young people with emerging mental

occupational functioning during two years of early intervention

care. Most functional trajectories were also quite volatile,

indicating the need for dynamic service models that emphasise

ultidisciplinary interventions and measurement-based care.

The clinics are not diagnosis-specific, do not impose symptom-,

people with a broad range of emerging anxiety, depressive,

mania-like, psychosis-like, and comorbid syndromes. Case man-

agement was provided for all participants by clinicians, and

The inclusion criteria for participation were age 12-25 years

cialised mental health services or were hospitalised.

severity-, or risk-based thresholds for care, and attract young

disorders did not experience meaningful improvement in social and

services at the Brain and Mind Centre (University of Sydney), 1 June

The known: One priority for mental health care is to reduce the long term impact of emerging mental disorders. However, diverse rajectories of functioning restrict effective service planning. The new: The functional levels of two in three young people who ttended early intervention services remained poor or deteriorated and fluctuated across two years of care. Prior mental health care or self-harm and suicidality, physical comorbidity, substance misuse, and social disengagement were associated with poor outcomes The implications: Most young people with emerging mental rders require dynamic, multidisciplinary, measurement-based approaches that take into account physical comorbidity, ambiguous r attenuated symptomatology, and social or occupational

ne in four young people experience mental ill health by the age of 25.1 As these disorders typically emerge during adolescence and early adulthood, they often have functional outcomes that extend into later life." Consequently, responding early is the key to reducing their overall impact.

The value of early intervention is supported by evidence that the longer the period of untreated illness, the poorer the outcomes.³ Early intervention clinics attract young people with subthreshold or early stage disorders,4 many of whom are already subject to substantial functional impairment, comorbidity, and suicidality.56 The heterogeneity of symptoms, risk, and functioning at their first presentation means that providing timely interventions that meet all of a young person's needs can be difficult.7 Short term reductions in psychological distress and risk are typically reported for young people who attend early intervention clinics.8 but most will later experience deterioration of symptoms or chronic functional impairment.

Trajectory-based modelling takes into account the heterogeneity of young people who require mental health care by identifying subpopulations of young people, with the aim of guiding service planning and strategies for improving long term functional out- clients received appropriate psychological, social, and medical comes.^{9,10} Our study evaluated trajectories of functioning during interventions as standard care. Those whose needs exceeded the the first two years of early intervention care, and identified factors associated with these trajectories.

Methods

at baseline, and at least three data points between one and 24 months after baseline We identified our participants in a research registry of 6743 people aged 12-30 years who presented to the youth mental Data collection health clinics at the Brain and Mind Centre (University of Sydney) during 1 June 2008 - 31 July 2018. These clinics provide both primary care services (headspace) and more specialised services. as previously described.¹¹ For each participant, their first

¹Brain and Mind Centre. the University of Sydney, Sydney, NSW, ²Thomoson Institute, University of the Sunshine Coast, Birtinya, OLD. Sed frank.iorfino@sydney.edu.ax doi: 10.5694/mia2.51308
 See Editorial (McGorry)

National mental health reform: less talk, more action

| infraser and quality overright organizations can create inces- | ABSTRACT |
|--|---|
| es for providen strongly their funding and accountibility echanisms and by exercising leadership within their spheres influence. ¹ | The Council of Australian Covernments revitalised national mental health veloces in 2006. Unfortunately, evidence-based models of collaborative care have not set been supported. |
| "he mid to innoi new mowy into new programs lay at the heart of the 2006 Council of Australian Governments (CDGG) National Account Plan or Marcal Houlds: Reports by denial Health Council of Australia" and the Senar Select intro on Manual Health" descontantial charly that the al health operation on torus their committee on access to | Previous attempts at national reform have locked a strategic when. We contrast to rely on an arguments that are forger end to between of blenner lowels of government, goarty resourced community services, and an ambattled public fooptial sector. |
| and all-ordebility of services were evident. e process of demotitutionalisation has never been properly ed, increase the needs of people with chronic mental filters. | Our penalting unaillingness to record or publicly report key measures of health, social or economic autoones undermittes community confidence in the mental health system. |
| ding housing and community support, annut, New Initia- locining on early intervention, strengful to find systems on because of constant pressure on actas services, and there | Six priority areas for urgent national action are proposed and lerked to key measures of improved health system performance. |
| to scena totaler Medicare to essential psychological services glo providence dissofters such as depression. 2 2009 Netzonal Action Plano on Montal Hubidh was inspired ret y by health conserve hea also by economic lasters. Statisticas is here deviced for sometro service service exercision measures in here deviced for sometro service service exercision | In Authalia, we recognise special groups both as war settimend and regardle and services to meet their specific health needs. Such spatemic could be readily adapted to meet the needs of people with psycholas. |
| the burnerstal diseas." In Anni 2006, the then Prime Manager | MJA 2006 190 191-19 |
| The set of the set of the stars is some of the might set the set of the stars are been set of the stars are set of the stars and the stars are been set of the set of the set of the stars are been set of the stars are set of the set of the stars are been set of the set of the set of the constant of the stars are stars are set of the set of the constant of the se | applied and the observation of the servery. It bits the most the server is the server |
| in key areas requiring urgent action for reform | managed to speed 587. I million of the \$1 Million allocated in full under the CDMG Action Plan. or 4.0% of the total to be upent 13 |
| relevential trained having for test segmational ministral chalcostics pro-Con | In as link basign, the recently elected federal government car |
| Lational and state funding for early intervention services, with entropies explosits on pouth services indexectal rational kindley for amployment of people with entrol dearders. | S2Wimilion from pioned neural health expendition. Wide cutting possily plannel of essented programs may be search francell management, the reduction tendeminus services amongsto to develop rootel tentatives and tentioness the dominance of the |
| peofic national and state funding initiations that link commodution support with clinical services | dystericizental state uniterns. In our view, argunt action in required in site key areas (lies 1). These are based directly on maternal and imarmational reviews of |
| ine national funding methods for sailanted erhealth information nd valated dividal versions | what constitute 'best buys' in mental bealth, including the work of |
| dependent national reporting of agreed health and social accornes and health service performance • | the symmet States memory of Molicine, the Australian Social Soliest Committee on Mintal Health and the Bosarth Committee of the Morial Health Council of Australia 121 |
| | |
| | dard • To ballance Tools |

HEALTH CAR

Ten years of mental health service reform in Australia: are we getting it right?

n 1992 public giverni Policy, imp Health Plat Strategy In 2005, ies under v criticians of dispate all happened i

Changes : In 2020, and 30% instead of the second of the se

87

| after a decade of adverse publicity and a series of | ABSTRACT |
|--|---|
| inquiries into mental health services, all Australian sents adopted a National Mental Health Poley. ¹³ The emerand through a series of fire year National Mental is, ²³ became known as the National Mental Health | We summarise the most recent data available on changes to the public and private mental health sectors from the commencement of the National Mental Health Strategy in 1993 to 2002. |
| we again have adverse publicity; three national inquir- ary or planned (which directly or indirectly arose from 6 mental bashs services), and growing prefeasional out the adequacy of mental health care. What has | There has been substantial service system change in the directions agreed by governments under the Stategy, supported by a 65% growth in government spending on mental health. |
| t the base decade is get as more than strataneer to the funding of mental health services al spending on memul health services was 5.1 billion, as in real terms histor 1997. As a propertion of evenill induate, this is similar to mental health expenditate in ped countries. In terms of a service-costing approach, | Depite this there is growing public and professional concern about deficiencies in the mental health service append. We review the current call for change in light of increased community expectations and growth in demand for services. Given thread rational and increasional support for AurotaNa' policy directions, the problems lie with the pace and extent of chrone and emotion haster environmes from the increased |
| mental health services accounted for 6.4% of Australias ealth expenditure in 2001-02.° Using an alternative | investment in mental health care. |
| ing approach, the Australian Institute of Health and 1970 astimuted that Australia meet 6.2% of measured | |
| enditize on mential health care in 1993–04 ¹⁷ . This is on 0.65% in the Noberhandan and 7.75% in the Uhined on 0.65% in the Noberhandan and 7.75% in the Uhined ong comparison between countries is difficult hocase ring users representation and noberhal expendi- ential health rises to 9.66% in Substance abuse and in included. It has been argued that, an mental disorders is abuse cabuse 13% of Australita's disease boaden. | Health Strategy, significant disputies in per capita spending or meant health continued between states and territories, with the difference between the highest and lowest pending prediction decreating eeby marginality over the decade (box 1). The differ news in perdicable between the states and territories translates into a wide virtuation across Atomicals in the level of meanal health pervices available. |
| hth expenditure is insufficient." There have been claims | Service restructuring |
| (m) - Wei, book, "Book and a Market methods and the second second second second second second second methods and the second second second second second methods and the second second second second second provide second second second second second second provide second seco | The characteristic of the strength of the s |
| M M | 54.007 |
| | |

Residential rehabilitation services for people living with severe and persisting mental illness are a good example of the gap between policy and the evidence

- They are intensive and expensive services (~\$800 per person a day), supporting a small numbers of consumers over a long time period (6-24-months)
- Low throughputs create challenges to service evaluation
- Early evaluations raised concerns about the extent to which consumer's experience functional impairment and social impoverishment post discharge.
- Despite limited evidence, these services have proliferated and been adapted in response to a variety of policy trends.
- These services are at odds with the international shift away from transitional support in the community.



BMC Psychiatry

A systematic review of service models and evidence relating to the clinically operated community-based residential mental health rehabilitation for adults with severe and persisting mental illness in Australia

Stephen Parker^{12*}⁰, Gordon Hopkins¹, Dan Siskind^{1,3}, Meredith Harris², Gemma McKeon¹, Frances Dark¹ and Harvey Whiteford²

Abstract

Background: Clinically operated community-based relationtial inhabitation units (Community Rehabitation Units) are resource intensive services supporting a small proportion of the people with severa and persisting menal illness who experience difficulties living in the community. Most communes who engage with these services will be diagnoued with schutephrenia or a nellead order. This review week to generate a topology of sinvice models, describe the characteristics of the communes accessing these services, and synthesize available evidence about communes' service segmentors and outcomes.

Method: A systematic review was undertaken to identify studies describing Community Rehabilitation Units in Australia, consumer characteristics, and evidence about consumer experiences and outcomes. Search strings were applied to multiple databases; additural records were identified through snowballing. Records presenting unique empirical research were subject to quality appraisal.

Besults: The typology defined two service types, Community-Based Residential Care (C-BRC), which emerged in the correct of de-institutionalisation, and the more recent Transitional Residential Residentia Residential Residential Residential Residential Res

(Continued on next page)

* Conespondence: Septem Parker@healthcidd.gov.au Weens South Addiction and Mental Health Services, Brisbane, QLD 4182, Australia *School of Fublic Health, The University of Queensland, Henton 4006, Australia





A brief overview of the Queensland context



Up until 2014 all CCUs in Queensland operated a 'clinical staffing model' where the majority staffing component were mental health nurses.

The Integrated Staffing model emerged in 2014. Under this approach Peer Support Workers (PSWs) replaced junior nursing staff as the majority component of the MDT.

The 'partnership' approach involves collaboration between the mental health service and NGO partner in the delivery of day-to-day care and support.

| | Clinical | | Integrated | Partnership | Total |
|--|----------|---|------------|-------------|--------|
| Number of CCUs | 7 | Π | 3 | 3 | 13 |
| Number of beds | 159 | | 56 | 62 | 277 |
| Average beds/CCU | 23 | | 19 | 21 | 21 |
| Total staff 1.0FTE | 180.51 | | 62.86 | 67.17 | 310.54 |
| Average staff 1.0FTE per CCU ^a | 25.79 | | 20.95 | 22.39 | 23.89 |
| Clinical | 93% | | 49% | 48% | 74% |
| Medical | 5% | | 6% | 5% | 5% |
| Nursing | 74% | | 27% | 32% | 56% |
| Allied-health | 14% | | 16% | 11% | 14% |
| Non-Clinical staff | 7% | Π | 51% | 7% | 16% |
| Non-clinical rehabilitation support ^b | 5% | | - | 3% | 3% |
| Peer support worker | 3% | | 51% | - | 12% |
| Managerial | - | | - | 4% | 1% |
| NGO partner ^c | - | | - | 45% | 10% |

^a Funded positions, may not accurately reflect employed staffing at census date

- Includes rehabilitation support workers, recreational officers, indigenous liaison officers
- NGO partner roles include 3.75FTE of designated Peer Support Worker Roles, i.e.
 6% of staff roles

Theoretically what are the potential challenges associated with the alternative staffing configurations?

| Govern | ance | Non-clinical | | | | |
|---------|---|----------------------------------|-----------------------------|-------------------------------|-------------------------|----------------------------|
| Service | ice type Peer-operated/owned Non-clinical rehab and P | | Buy-in/partnership | Traditional clinical | Integrated staffing | |
| | | | support | model | staffing model | approach |
| Role of | peer | Primary focus | Dependent on the staffing | model of the PDRS/NGO | Minimal representation | Majority component of |
| suppor | τ | | | | within the MDT, often | MDT, Key focus |
| | | | | | rolo | |
| | 1 | | | | TOIE | |
| | | Limited opportunities for | clinical input for | Working in parallel may | Peer representation | Value of lived experience |
| | | consumers, and the impa | ct of clinical perspectives | limit opportunities to | may be tokenistic, | may be degraded by |
| | | on organisational culture | | challenge the dominant | limiting opportunities | professionalisation of |
| | e | | | paradigm held by the | for organisational | peer support and/or |
| | ltu | | | group with organisational | learning from lived | assimilation within the |
| | נ | | | governance. Additionally, | experience workers. | dominant clinical culture. |
| | | | | conflicting paradigms | • | n l |
| ss* | | | | may detrimentally impact | | |
| nge | | | | organisational processes | | |
| alle | | Unavailability of 24/7 clin | ical support may limit | Availability of formal peer | Limited availability of | Reduced availability of |
| ප | | ability to support consum | ers with a higher level of | support dependent on | formal peer support to | 24/7 clinical support may |
| | | risk, acuity, and/or disability. | | NGO orientation and | consumers. | limit ability to support |
| | SS | | | policies. Reduced | | consumers with a higher |
| | e cc | | | availability of 24/7 clinical | | level of risk, acuity, |
| | Ă | | | | | and/or disability. |
| | | | to support consumers | | | |
| | | | | with a higher level of risk, | | |
| | | | | acuity, and/or disability. | | |

* The information presented in this table assumes that the input of both people with a lived experience of mental illness (in either a formal or informal role) and clinical staff have potential value to offer consumers of mental health rehabilitation services



In late 2014 I started working at the two MSAMHS CCUs where most of the staff were employed based on their lived experience of mental illness rather than their clinical skills

I was warned...

They were wonderful places to work...











...but did they deliver?

The Metro South CCU Evaluation Project

MC Psychiatry (2016) 16:179 186/s12888-016-0882-x

BMC Psychiatry

Open Access

STUDY PROTOCOL

Longitudinal comparative evaluation of the equivalence of an integrated peer-support and clinical staffing model for residential mental health rehabilitation: a mixed methods protocol incorporating multiple stakeholder perspectives

Stephen Parke^{1,2*}, Frances Dark¹, Ellie Newman¹, Nicole Korman¹, Carla Meurk², Dan Siskind^{1,3} and Meredith Harris²

Abstract

Background: A novel staffing model integrating peer support workers and clinical staff within a unified team is being trialled at community based residential rehabilitation units in Australia. A mixed-methods protocol for the longitudinal evaluation of the outcomes, expectations and experiences of care by consumers and staff under this staffing model in two units will be compared to one unit operating a traditional clinical staffing. The study is unique with regards to the context, the longitudinal approach and consideration of multiple stakeholder perspectives.

Methods/design: The longitudinal mixed methods design integrates a quantitative evaluation of the outcomes of care for consumers at three residential rehabilitation units with an applied gualitative research methodology. The guantitative component utilizes a prospective cohort design to explore whether equivalent outcomes are achieved through engagement at residential rehabilitation units operating integrated and clinical staffing models. Comparative data will be available from the time of admission, discharge and 12-month period post-discharge from the units. Additionally, retrospective data for the 12-month period prior to admission will be utilized to consider changes in functioning pre and post engagement with residential rehabilitation care. The primary outcome will be change in psychosocial functioning, assessed using the total score on the Health of the Nation Outcome Scales (HoNOS). Planned secondary outcomes will include changes in symptomatology, disability, recovery orientation, carer quality of life, emergency department presentations, psychiatric inpatient bed days, and psychological distress and wellbeing. Planned analyses will include: cohort description; hierarchical linear regression modelling of the predictors of change in HoNOS following CCU care; and descriptive comparisons of the costs associated with the two staffing models. The qualitative component utilizes a pragmatic approach to grounded theory, with collection of data from consumers and staff at multiple time points exploring their expectations, experiences and reflections on the care provided by these services. (Continued on next page)

* Correspondence: Stephen/Parker@health.gld.gov.au 'Metro South Addiction and Mental Health Service, 128 Main Street, Redland Bay, OLD 4162, Australia 'The University of Queensland, Herston, Australia 'Ull Ist of autor information is available at the end of the anticle



• 2016 The Author(s) Open Access This article is distributed under the terms of the Creative Commons Attributions 40 International Licence (http://creativecommons.org/licence/04/40/), which permits unrestricted use, distribution, and reproduction in any medium, provided you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons Habit: Domain Deductate if changes were made. The Creative Commons Public Domain Deductation waiter (http://creativecommons.org/luclicomini/zero/10.0) applies to the data made available in this article, unless otherwise set?

Mixed methods evaluation comparing the integrated staffing and clinical staffing model approaches for community-based residential rehabilitation across three sites over a 3-year period (2014-2017 admissions).

This evaluation planned to consider:

- Consumer expectations, experiences and reflections [Qualitative]
- Staff expectations and experiences [Qualitative]
- Profiling consumers entering the service [Quantitative]
- Symptom stability between admission and discharge [Quantitative]
- The impact on post-discharge outcomes [Quantitative]

Ambitiously (or foolishly) the plan was developed in the absence of dedicated funding support.

The **<u>qualitative component</u>** of the evaluation was expected to be critical to understanding the outcomes achieved (or not achieved).

This provided information about '**why**' and '**how**' of services operation and consumer outcomes.

OPEN ACCESS

Université de Montréal, Canada

Civil Hospital of Brescia Italy

Brandenburg Theodor Fontane

Edited by:

Alain Lesage

Reviewed by,

Germany

Carla Mourk

Giacomo Desti

Sebastian von Peter

*Correspondence:

c.meurk@ug.edu.au

Specialty section:

a section of the journal

Frontiers in Psychiatry

Received: 26 March 2019

Accented: 13, June 2019

Published: 08 July 2019

and Dark F (2019) Staff

Meurk C, Parker S, Newman E

Expectations of an Australian

Integrated Model of Residential

and Persisting Mental Illness: A

Front. Psychiatry 10:468.

Rehabilitation for People With Severe

Pragmatic Grounded Theory Analysis.

Rehabilitation

Citation

This article was submitted to

Social Psychiatry and Psychiatri

Madizinische Hochschule

Staff Expe

Integrate

Rehabilita

and Persi

Pragmati

Carla Meurk 1.2*, Steph

1 Policy and Epidemiology Gro

Health, The University of Quee

Health Service (MSAMHS), Br

Mental health services

working in these servi

develop within service

experience. We exam

rehabilitation units trial

lived experience of me

with ten peer support v

Units that opened in 2

organizational practic

recovery-oriented reha

of recovery and recov

services' potential bu

together and practica

consistent with those

Future research on sta

of recovery-oriented r

experiences and outo

Keywords: community care

INTRODUCTION

Community care units

residential mental health

illness (1, 2). Literature

tensions and uncertainty

rehabilitation services h

support roles into their r

International Journal of Mental Health Nursing (2017) 26, 355-365

International Journal of

Mental Health Nursing

ORIGINAL ARTICLE

Reality of working in a comn recovery-oriented mental he unit: A pragmatic grounded t

Stephen Parker,¹ Frances Dark,¹ Ellie Newman,¹ Nico Carla Meurk ¹Rehabilitation Academic Clinical Unit, Metro South Addiction and M University of Queensland, Brisbane, Queensland, Australia

ABSTRACT: In the present study, we explored the expercommunity-based residential mental health rehabilitation u care unit' (CCU). A pragmatic approach to grounded theory semistructured interviews with eight staff. Convenience san of junior and senior staff across nursing, allied health, and emerged from the analysis: (i) rehabilitation is different to tr space; (iii) they (consumers) have to be ready to engage; practice. Staff understandings of recovery in rehabili consideration of both personal and clinical recovery conce important to the ability to deliver recovery-oriented care; h engagement was acknowledged. Threats to recovery-ori burnout and external pressure to accept consumers who community-based recovery-oriented rehabilitation unit is cu a focus on recovery and rehabilitation. Leadership needs to these services to emergent needs. KEY WORDS: Mental health rehabilitation, staff ps rehabilitation, treatment

are com

INTRODUCTION

| Recovery-oriented residential mental health rehabilitation services target people with severe and persisting mental illness (Killaspy et al., 2011). The interventions provided | and provid comes, an 2013). The interventio |
|---|--|
| Correspondence to: Stephen Parker, School of Public Health, The University of Queencland, 128 Main Street, Reiflaud Bay, Bridhure, QDJ 405, Antaba, Enudi stephen-parkerBeithleidhgelage an Stephen Parker, PRANZCP, MBBS, BSc (Hon) BBm (Man), Frances Dark, PRANZCP, MBBS, Ellie Nosman, BFDSc (Phytology), BPych, Hons (Psychology), Nicele Korman, PRANZCP, MBBS, Zor Baumusen, MMH, MSW, Carla Meurik, BSc (Hono, Mathematics), M Sc (Hons, Mathematics and Statistics) and PhD (Audimpology). Accepted May 16 2016. | well as for et al., 19 perspective practice re- than incre programm working in improving explored th |

© 2016 Australian College of Mental Health Nurses Inc.

International Journal of (H) Mental Health Nursing

International Journal of Mental Health Nursing (2018) 27, 1650-1660

ORIGINAL ARTICLE

Understanding consumers' ini community-based residential itation in the context of past of mixed-methods pragmatic gro

> Stephen Parker,^{1,0} Carla Meurk,^{8,0} Ellie Net Swinson¹ and Frances Dark^{1,8} ¹Rehabilitation ACO, Metry South Addiction and Montel Heat

> School of Public Health, and "Policy and Epidemiology Group Brishme, Quonsland, Australia

ABSTRACT: This study explores how consumer health rehabilitation to compare with previous experhope to receive from mental health services, and little has not worked in previous care settings, may illumit and outcomes. A misud-methods research design tak guided the analysis of 34 semi-structured interview Community Care Units (CCUs) in Australia. Two i integrating peer support work with clinical core. All interviewer within the first 6 weeks of the consume offer an improvement on provious experiences of subacute inpatient settings, supported accommodat differences in the people (staff and co-residents), the regulations. Participants from the integrated staffing less clinical approach to care. Overall, consume articulated in policy frameworks for recovery-orient care suggest that these services continue to face size practice. Paying attention to the kind of working re health services, such as the provision of choice a supportion focus, could improve their ongagement and KEY WORDS: qualitative research, rehabilitation, r perspectives.

Correspondence: Stephen Pieler, Bayaile Community Care Unit, MSAMIRS, Complex parket/thealth old goe as Authorning statement. All subars lated next the authority criteria scoreda Medical Journal Editors and are in agreement with the manuscript Declaration of interest: No coeffict of interests are identified. Bryden Parker, PKANGCP, MIRS, BSc/Ean 11, Silas/Man). Carls Mesek, PhD, M. Sc (Hon), Carl Day Se, SSi: Blin Newman, DPsy(Cite), BPsylic(Psychology) (Han). Chotas Hetcher.

Indulla Suisson Francisc Dark, FBANZCP, MBBS. Accepted March 05 2018.

pidentising and Psychiatric Sciences (2019), 28, 408-417. O Cambridge Unive

Consumers' understanding an community-based recovery-or rehabilitation unit: a pragmal theory analysis

Stephen Parker^{1,2*}, Frances Dark^{1,2}, Ellie Newman¹, De Carla Meurk²³

Relightingtion ACLI. Motor South Addiction and Montal Health Service (MI) University of Owencland, School of Public Health, Herston, Australia ⁹ Policy and Epidemiology Group, Queensland Centre for Mental Haulth Resea

Alms. Incorporating consumer perspectives into mental health mowery-oriented case. One of the challenges faced in mental hea ment with the available support. Listening to consumers' expectaachieve, provides an opportunity to examine the alignment between of the people who use them. We explored consumer understa community based residential mental health rehabilitation units were trialling a staffing model integrating peer support with dis

Methads. Twenty-four consumers completed semi-structured is first 6 weeks of their stay at the rehabilitation unit. Most partic related psychotic disorder (87%). A progmatic approach to group tion of content and themes, and the development of an overand

Results. The influbilitation units were considered to provide a tru common musicn given for orgagement was beasing insectority or talion engagement. Differences in expectations did not emerge h stating model sites.

Conclusions. Comment understand the function of the what reliabilitation support may not be the key driver of their attenda samer orgagement with rehabilitation services. The absence of d models may reflect the neverity of the rehabilitation context. The at increase commer assumes of the notestial relevance of exidence

Receiped 22 June 2017; Accepted 20 October 2017; First published or

Key words: Qualitative research, rehabilitation, residential servi-

Introductio

Consumer voices are often overlooked or ignored in mental health services development and delivery (Bock & Alexander, 2006; Gee et al. 2016). Understanding consumer expectations is relevant to recovery-oriented rehabilitation given the emphasis on working with consumers' goals and priorities (Australian Health Ministers Advisory Council, 2013; Moran et al. 2016), and challenges associated with

*Address for correspondence: Sirphen Parker, 128 Main Sirvet, Refind for Ownshed (165 Australia (Small stephen.parker#health.gkl.gov.au)

International Journal of Mental Health Nursing

International Journal of Mental Health Nursing (2021) 30, 731-744

doi: 10.1111/inm.12842

OBIGINAL ABTICLE

Consumer experiences of community-based residential mental health rehabilitation for severe and persistent mental illness: A pragmatic grounded theory analysis

Stephen Parker, ^{1,2} Marianne Wyder, ^{1,3} Matthew Pommeranz, ¹ Ellie Newman, ^{1,4} Carla Meurk^{2,5} and Frances Dark^{1,2}

¹Metro South Addiction and Mental Health Services (MSAMHS), Brisbane, Queensland, ²School of Public Health, The University of Queensland, Herston, Queensland, 3Griffith University, Nathan, Queensland, 4Alfred Mental and Addiction Health (AMAH), Melbourne, Victoria, and Forensic Mental Health Group, Queensland Centre for Mental Health Research, Wacol, Oueensland, Australia

ABSTRACT: Semi-structured interviews were used to explore the consumer experience of commu based residential mental health rehabilitation support at Community Care Units in Australia. These clinical services provide recovery-oriented residential rehabilitation to people affected by severe and persistent mental illness. Typically, nurses occupy the majority of staff roles. However, two of the three sites in the study were trialling a novel integrated staffing model where the majority of staff were people with a lived experience of mental illness employed as peer support workers (PSWs). The interviews explored consumers' experiences of care 12-18 months after admission. Fifteen interviews were completed with an independent interviewer. Most participants were diagnosed with schizophrenia or a related psychotic disorder. The analysis followed a pragmatic approach to grounded theory. Consumers viewed the CCU favourably, emphasizing the value of the relationships formed with staff and coresidents. No major differences in consumers' experience under the traditional versus integrated staffing models were identified; however, those from the integrated staffing model sites valued the contributions of the peer support workers. The understanding of the consumer experience emerging through this study aligned with their expectations of the service at the time of commencement.

KEY WORDS: mental health recovery, nursing staff, peer support, psychiatric rehabilitation, residential treatment schizonbrenia

INTRODUCTION

Correspondence: Stephen Parker, 199 Ipswich Road, Woolloongabba, Australia, Email: stephen.parker@health.old.gov.au Declaration of conflict of interest: No financial support of conflicts of interest to disclose. Authorship statement: All authors listed meet the authorship criteria according to the latest guidelines of the International Com-mittee of Medical Journal Editors and ii) that all authors are in agreement with the manuscript. Stephen Parker, PhD, FRANZCP, MBBS, BSc(Hon), BBus

Matthew Ponimeranz, Peer Support Worker, Ellie Newman, DPs-Clin, BSPsv(Hons). Carla Meurk, PhD, BSc, Grad Dip Sc, M.Sc, (Hons, Mathematics and Statistics). Frances Dark, PhD, MBBS, Accepted January 09 2021.

© 2021 Australian College of Mental Health Nurses Inc

Community-based residential mental health rehabilitation services have become increasingly available in Australia (Parker et al. 2019a). There are a range of service types, including the Community Care Unit (CCU) model. These public mental health services provide time-limited, intensive recovery-oriented rehabilitation programmes to people with severe and persistent mental illness (SPMI) who are experiencing psychosocial disability. Most people referred to these services will be diagnosed with schizophrenia and have complex healthcare needs (Meehan et al. 2017). Despite the proliferation of these services, there is limited evidence

doi: 10.3389/fpsyt.2019.00468 Frontiers in Psychiatry | www.frontiersin.org Marianne Wyder, PhD, MSw, BA(Hon).

Data gathering

- Semi-structured consumer interviews completed by an independent interviewer across three time points:
 - Expectations (on admission/commencement)
 - Experience (12-18/12 post-admission/commence.)
 - Reflections (12-18/12 post discharge)
- Similar interviews were completed with staff commencing at the ISM sites, and with staff under both models with >12 months experience
- Sampling continued at each timepoint until the qualitative analysis was deemed to approach thematic saturation (n=25, n=15, n=17 for consumer interviews; n=15, n=8 (clinical) n=15 (integrated)for staff interviews)
- Participants were drawn from a convenience sample without exclusion criteria.

Analytic approach

- Pragmatic approach to grounded theory was adopted in the analysis of semi-structured interviews
- Hypothesis generating, not a hypothesis testing approach.

Limitations

- Transferability (i.e. context dependence)
- Reflexivity, analysis led by a person previously immersed within the context from a clinical perspective
- Variation in sample across each time point (i.e. cannot be sure that is the same journey)



Consumer Expectations

- Expectations and goals are consistent with the nature of the rehabilitation support available
- Most actively <u>choose</u> to come to the service
- BUT lack of accommodation is often the driver



Consumer Expectations

- Consumers hope the CCU will be very different to previous experiences of care
- These hopes align with principles of recovery-oriented practice



Positive

Negative

Relational aspects



Consumer Experience

- Similar experiences reported by consumers under the clinical and integrated staffing models
- Those under the ISM tended to explicitly value this model and the availability of peer support workers.
- However, those under the clinical model described valuing clinicians' professional knowledge and skills

Consumer Reflections

- Consumers report positive impacts on quality of life in the 12-18 months post-discharge*
- Unplanned exit (i.e. being asked to leave) was not followed by negative reflections
- The description suggests that expectations were met, and that the rehabilitation function of the service translated into meaningful change in people lives



* A much more hopeful finding to the earlier Victorian experience



Staff experience of a CCU operating the integrated staffing model

Staff expectations and experience

- Similar understandings of the function of the CCU emerged across the staffing models
- Staff from the clinically staffed unit emphasised tensions between rehabilitation and recovery, and barriers to rehabilitation engagement.



Staff expectations and experience

- Similar understandings of the function of the CCU emerged across the staffing models
- Staff from the clinically staffed unit emphasised tensions between rehabilitation and recovery, and barriers to rehabilitation engagement.
- ISM staff showed great focus of personal recovery and the opportunities for learning from each other
- ISM acknowledged initial difficulties bringing clinical and lived experience together, but at 12-18 months reflected positively on integration being achieved.

Staff understanding and experience of working at a community-based residential mental health rehabilitation unit under the integrated staffing model. Note that the solid green line reflects the journey of resident towards recovery, and does not imply that there is a singular path to achieve this.

Consumers (and staff) reflect positively on the CCU experience, it's ability to deliver recovery-oriented care, and to positively impact post-discharge quality of life. Additionally, both consumers and staff valued the integrated model and the availability of lived experience workers.

BUT... what does the 'hard' data tell us about these services and their effectiveness...

Table 2 Routine clinical assessment battery and administrative data collection over the baseline, admission, discharge and follow-up collection points

| Domain | | Measure | Baseline (–12–0 months) | Admission (0–6 weeks post) | Discharge (0–6 weeks prior) | Follow-up (0–12 months) |
|------------------------|----------------------|---|----------------------------|-------------------------------|--------------------------------|----------------------------|
| Administrativ | e data | Health of the Nation Outcome Scale (HoNOS) [26] ^A | Х | Х | Х | X ¹ |
| | | Life Skills Profile (LSP-16) [48] ^B | X* | Х | Х | X ² |
| | | Mental Health Inventory (MHI-38) $[51]^{B}$ | Х | Х | Х | X ² |
| | | Mental health related Emergency Department presentations | Х | Х | Х | X ² |
| | | Psychiatric inpatient bed days | X* | Х | Х | X ² |
| Clinical assessment | Symptom measures | Alcohol Use Disorders Identification Test (AUDIT) [60] | | Х* | Х | |
| battery | | Brief Psychiatric Rating Scale (BPRS) [46] | | Х | X ² | |
| | | Scale for the Assessment of Negative Symptoms (SANS) [87] | | Х | X ² | |
| | Functional Cognition | Allen's Cognitive Levels (ACL) [59] | | Х* | Х | |
| | Social-function | Social Functioning Scale (SFS) [88] | | Х* | X ² | |
| | Functional | Perceive Recall Plan & Perform System of Task Analysis (PRPP) [89] | | Х | Х | |
| | Recovery | Stages of Recovery Instrument (STORI- 30) [49] | | Χ* | X ² | |
| | Carer burden | Burden Assessment Scale (BAS) [90] | | Х | Х | |
| | | Adult Carer Quality of Life (AC-QoL) [50] | | Х | X ² | |

^A HoNOS is routinely collected on admission and discharge from inpatient, community residential and ambulatory services, and 3-monthly review periods in the non-inpatient settings

^B LSP-16 and MHI are routinely collected on admission, discharge and 3-monthly review in community residential and ambulatory services

¹ Primary outcome measure, examining change in total score between the Baseline and Follow-up periods

² Planned secondary outcome, examining change between Admission and Discharge for Clinical assessment battery items, and Baseline and Follow-up for Administrative data items

* Planned predictor in hierarchical linear regression modelling, note that for STORI-30 change between Admission and Discharge stage will be used (reduced, stable, increased)

X Collection occasion

A comprehensive quantitative data-set was generated through the use of a routine assessment battery on admission and discharge, and routine administrative data-sets.

The availability of such data enables creative exploration of questions relating to the services and the outcomes that are achieved. All you need is the time and the relevant skills (or supervisory support). We analysed the cohort admission data to establish the comparability of consumers admitted across the three sites. Consumers were generally comparable between the two staffing models.

An exploratory quantitative analysis was undertaken to consider sub-groups within the cohort... frontiers in Psychiatry

ORIGINAL RESEARCH published 00 November 2019 det 10 2020/met 2019/00/201



OPEN ACCESS Adverte Generation Locate Floren I, 540 Adverte Generation Locate Floren I, 540 Berlande Marcon Berlande Berlander Berlander Litzeberlähen Rechtarbeiter Ale Opek Interder Unterent Floren

> Ondrej Pec, Charlet Ubivezily, Czrechia "Correspondence: Charles Parler

TORCID Stephen Parley arcid.org/0000-0002-6022-3981 Dan Sitkind arcid.org/0000-0002-2072-9216 Daniel F. Nermens cktorg/0000-0002-0570-2663 Practices Date arcid ara/0000-0002-8776-207X Germa McNeon cktorg/0000-0003-3462-2775 Note Komen arcid.org/0000-0003-1414-1050 Units Amaubysia arcid.org/0000-0002-7780-8441 Meedth Harts roktora/0000-0003-0096-729 Narvey Whitebod

stephen, parker@health.gkf.gov.au

Specially section: This article was submitted to Social Products and Products

Rehabilitation, a section of the journal Prontiest: in Psychiaty Received: 12 July 2019 Accepte d: 07 October 2019 Published: 00 November 2019

K-means clustering.

Charlow Parker S, Stähl C, Hermen JC, Derk F, McKen G, Komm N, Armstwiss L, Harrich and Weinfach JP (2018) A Competinatie CahortDescription and Statistical Graphing of Community-Based Reddenda Tribatalistico Fareko Liken P. Artinisk Pront Psychiatry (1078). doi: 10.309/barb.2019.00780

A Comprehensive Cohort Description and Statistical Grouping of Community-Based Residential Rehabilitation Service Users in Australia

Stephen Parker⁽²⁺⁾, Dan Siskind^{1,2)}, Daniel F. Hermens²⁰, Frances Dark^{1,2)}, Gemma McKeon⁴¹, Nicole Korman⁴¹, Urska Amautovska⁵¹, Meredith Hamis²¹ and Harvey Whiteford²⁰

⁴ Pehabilistion Audemic Clickal Link, Meto Routh Addidon and Mental Hubb Revice, MARHAR, Brithone, OLD, Australa, "School & Robic Hubble University of Consention, Herstein, CLD, Australia, "Standard Consent Herstein Neuroscience-Thompson Institut, University of the Runthine Coast, Elisting, CLD, Australia, *Psychiair Academic Clickal Unit, Meto Staut, Addition and Metodi Hubble Services (MIGMAR), Brisbane, CLD, Australia, *Ph Foundation, Princes Associate Hough, Elistiane, CLD, Australia

Background: Community Care Units (OCUs) are a model of community-based residential rehabilitation support available in Australia that assists people affected by severe and persistent mental illness to enhance their independent living skills and community involvement. These services have been subject to limited evaluation, and available descriptions of consumer cohorts lack relevance to the understanding of their rehabilitation needs.

Method: A clinical assessment battery covering a broad range of relevant domains was completed with consumers commencing at three COUs in Queensiand, Australia, between December 2014 and December 2017 (N = 145). The ochort was described based on demographic, diagnostic, treatment-related variables, and the assessment battery. The comparability of included stees was assessed. This contemporary cohort was also compared to the pooled cohort of Australian community-based residential rehabilitation services emerging from a previous systematic review. Additionally, cluster analysis (CA) was completed in two stages based on the clinician-rated assessments hierarchical CA Wards method to identify the optimal number of clusters, followed by

Results: Dominant features of the cohort were male sex and the primary diagnoses of schizophrenia spectrum disorders. The average consumer age was 31.4 years. Most consumers were referred from the community had been living with family, and were not subject to involuntary treatment orders. No site-based differences were observed on demographic, diagnostic and treatment-related variables. However, some site-based variation in levels of symptoms and functional impairment emerged. Overall, the cohort was comparable with the Transitional Residential Rehabilitation (TRR) cohort defined in a previous systematic review. Through CA, a three-cluster solution emerged: Cluster 1 (16%) was characterised by higher levels of substance use comortidity, Cluster 2 (39%)

Final cluster solution* with z-score means and standard error by cluster for variables making a significant contribution to the underlying factors



| | Cluster 1 (n = 17) | Cluster 2 (n = 43) | Cluster 3 (n = 51) | TOTAL (N = 111) | Test ^b | р |
|-----------------------------------|-----------------------|-----------------------|-----------------------|--------------------|----------------------------------|-------|
| | (11 - 17) | (11 = 40) | (1 - 0 1) | (11 - 111) | | |
| Primary diagnosis ^a | | | | | | |
| F20-29.x Schizophrenia spectrum | 82.4% | 88.4% | 72.5% | 80.2% | Fisher's Exact Test ^c | .156 |
| Specific disorders ^a : | | | | | | |
| - F20.x Schizophrenia | 64.7% | 60.5% | 64.7% | 63.1% | - | - |
| - F25.x Schizoaffective disorder | 17.6% | 20.9% | 3.9% | 12.6% | — | - |
| - F29.x Unspecified psychosis | | 7.0% | 3.9% | 4.5% | | (777) |
| - F31.x Bipolar disorder | 11.8% | 2.3% | 13.8% | 9.0% | _ | - |
| - F32-34.x Depressive disorders | 5.9% | 7.0% | 5.9% | 6.3% | 3 11 | - |
| - Other disorders | - | 2.3% | 3.9% | 2.7% | - | - |
| Secondary diagnoses/issues | | | | | | |
| Current tobacco use | 70.6% | 65.1% | 47.1% | 57.7% | $X_{(2)}^2 = 4.491$ | .106 |
| Substance use | 94.1% | 32.6% | 35.3% | 43.2% | $X^{2}_{(2)} = 21.240$ | .000d |
| Physical health issue | 11.8% | 27.9% | 17.6% | 20.7% | Fisher's Exact Test° | .353 |
| Trauma history | 5.9% | 2.3% | 11.8% | 7.2% | Fisher's Exact Test ^c | .207 |
| Anxiety disorder | 5.9% | 4.7% | 15.7% | 9.9% | Fisher's Exact Test ^c | .191 |
| Developmental disorder | 5.9% | 4.7% | 13.3% | 8.1% | Fisher's Exact Test° | .456 |
| Personality disorder | 23.5% | 4.7% | 3.9% | 7.2% | Fisher's Exact Test° | .042e |
| Obsessive-Compulsive Disorder | - | 9.3% | 3.9% | 5.4% | Fisher's Exact Test ^c | .447 |

^a Test statistic calculated only for the presence/absence of F20-29.x diagnoses (see above) given the number of diagnostic categories

^b For categorical variables, the Chi Square test was applied unless the expected count for any cell was <5, in this case, Fisher's Exact test was calculated

^c Unadjusted odds ratio: F20-29.x Schizophrenia spectrum = 3.628, Substance use = 22.60, Physical health issue = 2.239; Trauma history = 2.943; Trauma history =

3.099; Developmental disorder = 1.513; Personality disorder = 6.082; Obsessive-Compulsive Disorder = 1.787

^d Cells with adjusted standardised residuals $\geq +2 =$ Cluster 1 (Substance use issue – Yes)

^e Cells with adjusted standardised residuals $\geq +2 =$ Cluster 1 (Personality Disorder – Yes)

| | | Cluster 1 | | Cluster 2 | | Cluster 3 | | Cluster 3 | | x(SD) | Test | р |
|-------------------------|----|---------------|----|---------------|----|---------------|-----|---------------|--------------------|-------|------|---|
| | n | x(SD) | n | x(SD) | n | x(SD) | | | | | | |
| MHI-38 (Total) | 17 | 49.88(22.209) | 43 | 51.84(19.848) | 51 | 63.00(17.034) | 111 | 56.67(19.720) | $K_{(2)} = 10.445$ | .005ª | | |
| Psychological wellbeing | | 38.53(23.492) | | 40.00(22.018) | | 53.31(21.575) | | 45.89(22.901) | $K_{(2)} = 11.118$ | .004ª | | |
| Psychological distress | | 43.41(24.308) | | 39.26(22.065) | | 27.12(22.230) | | 34.32(23.298) | $K_{(2)} = 7.836$ | .020b | | |
| STORI-30 | 16 | | 42 | | 47 | | 105 | 5000 | Fisher's Exact | .015° | | |
| | | | | | | | | | Test ^b | | | |
| Moratorium | З | 18.8% | 9 | 21.4% | 2 | 4.3% | 14 | 13.3% | | | | |
| Awareness | 7 | 43.8% | 15 | 35.7% | 10 | 21.3% | 32 | 30.5% | | | | |
| Preparation | 1 | 6.3% | 2 | 4.8% | 6 | 12.8% | 9 | 8.6% | | | | |
| Rebuilding | 2 | 12.5% | 9 | 21.4% | 7 | 14.9% | 18 | 17.1% | | | | |
| Growth | З | 18.8% | 7 | 16.7% | 22 | 46.8% | 32 | 30.5% | | | | |

^a Post-hoc tests with Bonferroni correction for multiple tests identified statistically significant pairwise comparison between Cluster 3 and 1&2 ^b Post-hoc tests with Bonferroni correction for multiple tests identified no statistically significant pairwise comparisons

^c Unadjusted odds ratio: STORI-30 = 17.810; cells with adjusted standardised residuals $\geq +2 =$ Cluster 2 (Moratorium) and Cluster 3 (Growth), cells with adjusted

standardised residuals $\leq -2 = Cluster 2$ (Growth) and Cluster 3 (Moratorium).

This grouping has resonance with staff and facilitated a shift away from a focus on 'rehab readiness' and revision of local processes

Expectation that some consumers will be suitable for earlier discharge leading to increased focus on transition plan from commencement

Addressing substance use from entry will be critical to avoiding unplanned discharge, leading to trials of groups in partnership with AODS and increased assertiveness of pharmacological support (e.g. naltrexone)

Those likely most in need of rehabilitation support may be least ready at the outset to engage in formal psychosocial treatment, increasing emphasis on building hope and motivation for those appearing least engaged

As the data collection progressed we became aware that our service far exceeded the rest of the state in rates of unplanned discharge...

So we used information the admission data-set to model predictors of this outcome locally.

IOURNAL OF MENTAL HEALTH https://doi.org/10.1080/09638237.2020.175502

ORIGINAL ARTICLE

Predictors of unplanned discharge from community-based residential mental health rehabilitation for people affected by severe and persistent mental illness

Urska Arnautovska^a (0), Gemma McKeon^b (0), Frances Dark^{b,c} (0), Dan Siskind^{b,c,d} (0), Meredith Harris^{ce} (0) and Stephen Parker^{b,d,e}

^aPA Foundation, Princess Alexandra Hospital, Brisbane, Australia: ^bMetro South Addiction and Mental Health Services (MSAMHS), Brisbane Australia; School of Public Health, University of Queensland, Herston, Australia; Faculty of Medicine, University of Queensland, Herston, Australia: "Policy and Epidemiology Group, Queensland Centre for Mental Health Research, Wacol, Queensland

ARSTRACT

Background: Little is known about what predicts disengagement from rehabilitation treatment for people affected by severe and persistent mental illness (SPMI) Aims: To identify predictors of unplanned discharge among consumers admitted to community-based

residential rehabilitation units in Australia. Method: Secondary analysis of data from a prospective cohort study of consumers admitted to three

Community Care Units (CCUs) between 2014 and 2017 (n = 139), CCUs provide transitional residential rehabilitation support to people affected by SPMI. Demographic, treatment-related and clinical predictors of unplanned discharge were identified using binomial regression models controlling for site-level variability. Factors associated with self- vs staff-initiated unplanned discharge were also examined. Results: 38.8% of consumers experienced unplanned discharge. Significant predictors of unplanned discharge were younger age, higher alcohol consumption and disability associated with mental illness. as well as recovery stage indicating a sense of growth and higher competence in daily task perform ance. 63.0% of unplanned discharges were initiated by staff, mostly for substance-related reasons (55.9%). History of trauma was more likely among consumers with self-initiated discharge than those with staff-initiated unplanned and planned discharge

ARTICLE HISTORY

Received 27 September 2019 Revised 2 February 2020 Accepted 5 March 2020 Published online 20 April

KEYWORDS Patient discharge

psychiatric rehabilitation: residential treatment: schizophrenia: severe and persistent mental illness

Conclusions: Assertive intervention to address alcohol-use, and ensuring care is trauma-informed, may assist in reducing rates of unplanned discharge from rehabilitation care.

Introductio

Community Care Units (CCUs) are a publicly-funded Australian model of residential psychiatric rehabilitation providing transitional (6-24 months) care focused on improving the community functioning and independence of people affected by severe and persistent mental illness (SPMI) (Parker et al., 2019a). Not all consumers admitted to a CCU will receive the full planned episode of care. Unplanned discharges may be staff initiated in the case of acute deterioration in mental state necessitating a higher level of support, or breach of unit protocols intended to maintain safety and the therapeutic milieu. Additionally, some consumers elect to leave the service prior to the completion of planned care. People who experience unplanned discharge may not have had sufficient opportunity to receive optimal care, this may contribute to negative outcomes and use of services post-discharge (Pekarik, 1985). increased Little is known about the frequency of unplanned discharge it occurring

Data from a single CCU found that 42% of consumers were discharged before the completion of planned rehabilitation due to breaches of the drug and alcohol policy (Stopa et al., 2019). This is concerning given that most consumers admitted to contemporary CCUs are current tobacco users, and almost half have other comorbid substance use issues (Parker et al., 2019b). Premature discharge would be expected to reduce the likelihood of favourable rehabilitation outcomes (Tsoutsoulis et al., 2018). The limited available evidence suggests that active substance use is a crucial driver for premature discharge (Meehan et al., 2017; Stopa et al., 2019). Additionally, a qualitative study found that staff view the appropriateness of consumers admitted for rehabilitation is detrimentally impacted by substance use, high levels of acute symptoms, poor motivation and accommodation crisis being a primary driver for engagement (Parker et al., 2017a).

There is no research available specifically examining predictors of unplanned discharge at CCUs and other models from CCUs and the factors increasing the likelihood of of community-based residential mental health rehabilitation. However, a small number of studies have examined

CONTACT Stephen Parker 🖾 stephen.parker@health.qld.gov.au 💿 Metro South Addiction and Mental Health Services (MSAMHS), 199 Ipswich Road, Woolloongabba, Queensland, 4102, Australia

Supplemental data for this article is available online at https://doi.org/10.1080/09638237.2020.1755025 © 2020 Informa UK Limited, trading as Taylor & Francis Group

Data set and Methods

- All consumers from the previous study discharged at the date of data extraction (n=139/145)
- Demographic, diagnostic, symptomatic and functional measures were included as potential predictors
- Hierarchical logistic regression was used to identify predictors of unplanned discharge
- Between groups comparisons were made to compare consumers with self- and staffinitiated unplanned discharge

Key findings

- Unplanned discharge is common (54/139 = 39%). Most often this is staff-initiated (34/54 = 63%), most-commonly due to substance use (15/34 = 44%)
- Unplanned discharge was more likely for people on government benefits, with alcohol use problems, and higher self-rated recovery
- The only statistically significant difference between people with self- and staff-initiated unplanned discharge was a history of trauma (30% v 6% (and 7.1% for planned)

Younger consumers are more likely to leave... ?extant family support, more intact social networks

Table 4. Binary logistic regression with statistically significant predictors (p < 0.05) of unplanned discharge (N = 139), with site/staffing model as a control variable.

| Predictor variables | p Value | В | SE of B | Exp(β) | 95% CI |
|---|---------|--------|---------|--------|-------------|
| Age | 0.027* | -0.062 | 0.028 | 0.940 | 0.890-0.993 |
| Alcohol use (AUDIT Consumption subscale score) | 0.021* | 0.180 | 0.078 | 1.197 | 1.027–1.395 |
| Social functioning (SFS Independence-Competence subscale) | 0.004* | 0.223 | 0.077 | 1.250 | 1.076-1.452 |
| Stage of recovery (STORI-30 Growth stage score) | 0.002* | 0.116 | 0.038 | 1.123 | 1.043–1.210 |

Independent variables: site/staffing model (the reference category = integrated staffing model); AUDIT: Alcohol Use Disorders Identification Test; SFS: Social Functioning Scale; STORI-30: Stages of Recovery Instrument.

Dependent variable: 0 = planned discharge and 1 = unplanned discharge.

B: unstandardized regression coefficients; β : standardised regression coefficients; SE: Standard Error; CI: Confidence Interval. The full model correctly classified 74.4% of consumers (81.4% as having planned discharge and 58.3% as having unplanned discharge). *p < 0.05.

Higher self-rated recovery > ?residential rehabilitation perceived as less relevant

Better social functioning > ?more accommodation options, residential care less relevant

These findings suggest

- The importance of trauma informed care, and the possibility that aspects of the residential rehabilitation environment may be less tolerable for people with a history of trauma (who are more likely to choose to leave)
- The importance of identifying substance use issues on admission and actively supporting consumers (who are more likely to be asked to leave)

frontiers in Psychiatry

ORIGINAL RESEARCH published: 20 January 2022 doi: 10.3389/fpsyt.2021.810814

Implementing Introductory Training in Trauma-Informed Care Into Mental Health Rehabilitation Services: A Mixed Methods Evaluation

Laura Nation¹, Nicola Spence¹, Stephen Parker^{1,2}, Maddison Paige Wheeler¹, Kate Powe¹ Mei Siew1, Tamara Nevin1, Michelle McKay1, Michelle White1 and Frances Louise Dark1*

Metro South Addiction and Mental Health Services, Brisbane, QLD, Australia, ² Faculty of Medicine, The University of Queensland, Herston, QLD, Australia

Objective: This paper describes the implementation of training in trauma-informed care (TIC) across a mental health rehabilitation service.

Method: A mixed-methods approach was applied incorporating baseline measures of staff attitudes toward TIC, quantitative description of staff training participation, and OPEN ACCESS semi-structured interviews of Team Leaders' views on the implementation of TIC.

> Results: Fifty-five of 123 staff responded to the Organizational Change Readiness Assessment (OCRA) survey (44.7%). Training completion varied considerably between the eight rehabilitation teams (4.8–78%). Analysis of the Team Leader interviews identified four broad themes; The need to respect the person's life journey including the risk of re-traumatization; the importance of considering the context of implementing TIC training: TIC being an essential part of mental health care; and staff may also have trauma histories

> Conclusions: Staff working in mental health rehabilitation are supportive of the need for TIC. The variable training uptake did not reflect the staff comments about the importance

of TIC. The burden of adjusting mental health care delivery to COVID-19 restrictions was Specialty section: This article was submitted to reported as a major influence on the uptake of training. Systematically implementing Public Mental Health, training in TIC is required but needs to be complemented by a structured organizational approach to aid embedding this approach into daily mental healthcare delivery. Frontiers in Psychiatry

Received: 07 November 2021 Keywords: trauma-informed care, training, recovery orientated mental health rebabilitation, implementation Accepted: 23 December 2021 competency framework Published: 20 January 2022

INTRODUCTION Nation L. Spence N. Parker S.

Wheeler MP. Powe K. Siew M Nevin T. McKay M. White M and Dark FL (2022) Implementing Introductory Training in Trauma-Informed Care Into Menta Health Rehabilitation Services: A Mixed Methods Evaluation. Front, Psychiatry 12:810814. doi: 10.3389/fpsyt.2021.810814

Edited by

Reviewed by:

Matt D. Erb

United States Lovola McLean.

María del Mar Molero.

*Correspondence Frances Louise Dark

a section of the journa

Citation

University of Almeria, Spain

Center for Mind-Body Medicine

The University of Sydney, Australia

frances.dark@health.old.gov.au

A history of experiencing trauma is common in people seeking help from mental health services (1, 2). The pervasiveness of trauma and its impact on the development; presentation; and management of people experiencing mental illness is well established. The Australian National Framework for Recovery-Oriented Mental Health Services (3) was endorsed in 2013 and emphasizes the importance of Trauma-Informed Care (TIC).

There are multiple definitions of trauma. The Substance Abuse and Mental Health Services Administration (SAMHSA) reviewed the definitions and developed the following concept:

Frontiers in Psychiatry | www.frontiersin.org

January 2022 | Volume 12 | Article 810814

By the early 2020 all consenting consumers admitted between 2014-17 had been discharged (n=145). This permitted the admission-discharge outcome comparisons based of the assessment battery data.

A key concern that had been expressed with the introduction of the integrated staffing model was the risk of it limiting outcomes due to the reduced proportionate availability of clinical staff. **Table 3.** Comparison of reliable improvement in outcome variables from admission to discharge between clinical and integrated staffing models, based on Reliable Change Index (RCI)^a.

not for redistribution

blication

Δ

| | Cut-off | Clinical n(%) | Integrated n(%) | Total n(%) | Test | Cramer's V ° | р |
|--------------------------|---------|------------------|--------------------|-------------------------|---------------------------|-----------------|------|
| | | Reliable im | provement bas | sed on the Re | liable Change In | dex (RCI) | |
| Functioning & disability | | | | | | | |
| HoNOS Total (n=142) | -1 | 21(40.4) | 50(56.2) | 71(50.4) | $\lambda^{2}_{(1)}=3.276$ | .152 | .070 |
| LSP-16 Total (n=142) | -1 | 24(45.3) | 50(56.2) | 74(<mark>52.1</mark>) | $\lambda^{2}_{(1)}=1.581$ | .106 | .209 |
| SFS Total (n=81) | +7 | 13(43.3) | 32(62.7) | 45(<mark>55.6</mark>) | $\lambda^{2}_{(1)}=2.883$ | .189 | .090 |
| Symptoms | | | | | | | |
| BPRS-18 Total (n=91) | -8 | 12(30.8) | 32(60.4) | 44(47.8) | $\lambda^{2}_{(1)}=7.893$ | .293 | .005 |
| SANS Total (n=91) | -8 | 24(70.6) | 42(73.7) | 66(72.5) | $\lambda^{2}_{(1)}=0.102$ | .034 | .749 |
| Substance use | | | | | | | |
| AUDIT Total (n=78) | -2 | 9(33.3) | 18(35.3) | 27(34.6) | $\lambda^{2}_{(1)}=0.030$ | .020 | .863 |
| Psychological well-being | ; | | | | | | |
| MHI Index (n=135) | +7 | 32(65.3) | 55(63.2) | 87(<mark>64.0)</mark> | $\lambda^{2}_{(1)}=0.025$ | .014 | .875 |
| | | | | | | | |

Most consumers experienced reliable improvement across a broad range of functional measures and in psychological wellbeing

Improvement in negative symptoms occurred more frequently than for psychiatric symptoms generally

M: Mean; SD: Standard deviation; RCI: Reliable Change Index; RCS: Reliable and Clinically Significant; HoNOS: Health of the Nation Outcome Scales; SFS: Social Functioning Scale; LSP-16: Life Skills Profile; BPRS-18: Brief Psychiatric Rating Scale; SANS: Scale for the Assessment of Negative Symptoms; AUDIT: Alcohol Use Disorders Identification Test; MHI: Mental Health Index.

Overall, there were minimal differences between frequency of reliable improvement between the clinical and integrated staffing model consumers, the exception being the BPRS-18 (general psychiatric symptoms). Where most consumers under the ISM showed improvement.

Improvement in problematic alcohol use did not occur frequently*

* Note that this was accounted for largely by low base rates and increases in consumption within the non-problematic range

Table 3. Comparison of reliable improvement in outcome variables from admission to discharge between clinical and integrated staffing models, based on Reliable Change Index (RCI)^a.

| | Cut-off | Clinical n(%) | Integrated n(%) | Total n(%) | Test | Cramer's V ° | р |
|-----------------------------------|---------|------------------|--------------------|-------------------|----------------------------|-----------------|------|
| | | Reliab | le and Clinicall | y Significan | t (RCS) improven | nent | |
| Functioning & disability | | | | | | | |
| HoNOS Total (n=142) ^a | 13 | 10(19.2) | 25(28.1) | 35(24.8) | $\lambda^{2}_{(1)}=1.380$ | .099 | .240 |
| LSP-16 Total (n=142) ^a | 26 | -(-) | 3(3.4) | 3(2.1) | Fisher's Exact | - | .293 |
| SFS Total (n=81) | 120 | 5(16.7) | 2(3.9) | 7(8.6) | Fisher's Exact | - | .095 |
| Symptoms | | | | | | | |
| BPRS Total (n=91) ^a | 31 | 10(25.6) | 15(28.3) | 25(27.2) | $\lambda^{2}_{(1)} = .080$ | .030 | .777 |
| SANS Total (n=91) ^a | 49 | 10(30.3) | 24(41.4) | 34(37.4) | $\lambda^{2}_{(1)}=1.103$ | .110 | .293 |
| Psychological well-being | | | | | | | |
| MHI Index (n=135) ^b | 94.1% | 0(0.0) | 3(3.4) | 3(2.2) | Fisher's Exact | - | .552 |

M: Mean; SD: Standard deviation; RCI: Reliable Change Index; RCS: Reliable and Clinically Significant; HoNOS: Health of the Nation Outcome Scales; SFS: Social Functioning Scale; LSP-16: Life Skills Profile; BPRS-18: Brief Psychiatric Rating Scale; SANS: Scale for the Assessment of Negative Symptoms; AUDIT: Alcohol Use Disorders Identification Test; MHI: Mental Health Index.

When the harder criteria of RCS change was applied improvement occurred less frequently, and there were no differences in the frequency of clinically significant improvement between the staffing model groups. Post-hoc regression analyses considering known confounders in the data set identified admission under the integrated staffing model as a predictor of reliable improvement in both social functioning (SFS) and general psychiatric symptoms (BPRS-18)

The ISM was associated with at least equivalent pre-post outcomes as the clinical staffing model

* Note limitations with the RCS approach given that many consumers were below the defined clinical significant thresholds on admission

2014>2022 8-years and counting...

A lot has been achieved....

| Academic output (to date) | The service | Externally |
|---|---|--|
| Publications 11x peer reviewed publications 2x papers under review 3x papers in preparation | Building research capacity and culture 29 co-authors 21 co-authors from MSAMHS 18 employees w/ 1st publication | Queensland Funding for statewide evaluation Collaborations with Benchmarking Unit Informing MH Branch re future policy |
| RHD and progression 1x PhD (complete) 1x PhD commenced by CCU staff 3x Scholarly project | Driving research & quality improvement Trauma-informed care education pilot Early recovery group pilot New research projects in the CCU context Staff education and process revision | <i>National</i> Consultation by state health departments Influence on guidance to Vic Royal Comm. |
| | <i>Service development and change</i> On the basis of organizational experience and emerging evidence the | |

staffing approach across the 3 CCUs of the service are being revised

Facilitators....

Motivation

Motivated staff (small number) Willing to dedicate thousands of hours of their own time

Leadership buy-in

Commitment to the project serviced as a driver for data collection compliance by less motivated staff

University partnership

Availability of methodological expertise motivated by PhD enrolment rather than a financial commitment which would have been unfeasible

Money

Organizational in kind support Without an established track record grant funding was unrealistic. This covered costs associated with staff time, transcription etc.

Minor grant funding RANZCP grants assisting to build motivation and limit service burden.

Major funding MH Branch Emerging track record assisted to secure funding to cover senior RA support to progress the project.

Challenges....

Missing data

Varying staff buy-in

- Lack of a sense of ownership
- Fear about underlying motivations (clinical site)

Paper-based assessment battery

- Too ambitious
- Duplication of data entry

Meeting organizational needs

Time to data availability

 Lack of dedicated support meant delays of years between data collection and finalization

Publication

Observational research

Harder to publish

Sounds like a lot of work... why do it:

- By working smarter (not harder) we can find ways to do things better and easier
- We already collect a lot of data through our administrative data-sets and clinical assessments
- Often the data we collect isn't being used to drive improved outcomes at the level of the individual consumer and service.

- We complain about the routine outcomes, so why not routinely measuring outcomes that really matter in a standardized way (e.g., work, housing, social networks)
- Identifying quality improvement and research as a core function of the services will make it easier to use the valuable data we collect, and to generate longitudinal data sets that will be readily available for research.

What's the risk:

- Unless there is a whole of team commitment to quality improvement we will end up with data of poor quality that will not be fit for purpose.
- If we are too ambitious we will end up with unacceptably high levels of missing data, and the process will become a burden on the team.
- We would need to get the core data set right at the outset, while adding on new variables is easy (but burdensome) any change in the core collection will limit the workable numbers for research and the ability to make comparisons over time.
- Unblinded naturalistic assessments will limit the enthusiasm of high impact journals to publish findings based on this work.

Therefore....

- Ensure that the collection includes information valued by each discipli
 - information valued by each disciplineHolding each other to account
 - Focus on the data we already collect
 - Measures should be brief (i.e. <5 min)
 - Limit and rationalize collection instances
 - Use technology and include self-report
 - Don't rush the planning
 - Don't duplicate what's in the admin system*
 - Work smart and use the resources available to us (e.g. MHIM, grants, students)
 - Never forget that the goal is improved outcomes for <u>our</u> consumers and their families not high impact publications
 - Research based on this data is publishable, this is most likely if we are aware and transparent in considering the limitaitons

* Unless there is a known problem with the variable in the administrative system

Sources of routine data collection

Stephen.parker@uq.edu.au

Emergent learning about becoming a data driven service:

Shifting from a quality assurance to a quality improvement focus will facilitate a better understanding of individual consumers and the service. This will also direct adapting service processes to enhance outcomes. Who we are working with

- What we actually do
- What outcomes are being achieved

Intake criteria

- Assessment processes
- Psychosocial interventions
- Care pathways
- Outcomes at the individual level
- Outcomes at the cohort level
- Outcomes at the service level
- Staff attraction and retention

The primary goal should be achieving better outcomes and experiences for consumers and their families (i.e. quality improvement) <u>not</u> publications or gathering data for future use.

This goal will only be realistic if the systems for collecting data are simple, easy to use, and directly relevant to our day to day work.

Reliable Change Index

- Used to determine whether a reliable (i.e. statistically significant) change has occurred at the level of each individual participant (rather than simply between groups of participants)
- This approach uses the standard error of differences (SEdiff) to establish a threshold for determining that we can have 95% confidence that a difference in pre/post test scores has not arisen by chance.

Clinically significant change

 Clinically significant change considers whether the change in a person's score between admission and discharge crossed a threshold that is meaningful in differentiating a clinical from a subclinical population.

Figure 1. Pretest and posttest scores for a hypothetical subject (x) with reference to three suggested cutoff points for clinically significant change (a, b, c).

Clinical significance cut-off

There is always someone around Expectations about engagement Limited by staff activities Limited by staff activities

Staff have more time

- Builds trust

Transition support

Experience

- All participants reflected positively
- Emphasis on relational aspects (staff>co-residents)
- Emphasis on the environment providing opportunities for activity and processes supporting increased independence

Staff expectations of a CCU operating the integrated staffing model

Staff expectations and experience

- Similar understandings of the function of the CCU emerged across the staffing models
- Staff from the clinically staffed unit emphasised tensions between rehabilitation and recovery, and barriers to rehabilitation engagement.
- ISM staff showed great focus of personal recovery and the opportunities for learning from each other
- ISM acknowledged initial difficulties bringing clinical and lived experience together, but at 12-18 months reflected positively on integration being achieved.