Evaluation of Crisis Respite Services: Final Report

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Glossary
CARS Consumer Activity Report System
CBIS Community Based Information System
CRS Crisis Respite Services
CALD Culturally and Linguistically Diverse
CCCME Central Country Information System
COAG Council of Australian Governments
ED Emergency Department
HoNOS Health of the Nation Outcomes Scales
K10 Kessler Psychological Distress Scale
LOS Length of stay
LSP-16 Life Skills Profile
NGO Non-Government Organisation
NOCC National Outcomes and Case-mix Collection
Summary of key findings

- The Crisis Respite Services (CRS) were successfully implemented in Adelaide despite a number of challenges to implementation.
- The CRS was successful in reaching its target group although there were some difficulties accessing Aboriginal and Torres Strait Islander and CALD consumers and young people.
- The governance structure worked well and in particular the working relationship between SA Health and Neami was a successful partnership.
- Consumers and their families indicated a wide range of benefits arising from the CRS including practical help with housing and other problems as well as providing a 'space' for consumers to get back on track after a crisis or hospital admission.
- The residential and home based service models were also praised highly by consumers.
- The CRS has resulted in statistically significant reductions in:
  - Psychological distress
  - Hospital admissions
  - Time in hospital
  - Emergency Department visits
- A large proportion of the costs were offset by the reductions in hospitalisation and Emergency Department presentations.
- Overall the success of the CRS program is remarkable. It is consistent with previous evaluations of respite services which tend to show positive outcomes. However this evaluation is more robust than most previous evaluations cited in the literature.
- The short term nature of the funding has compromised the CRS program’s ability to contribute to long term sustained improvements in service provision and consequently the wellbeing of mental health consumers in South Australia.
Executive summary

Program establishment and usage

- Following slight initial delays resulting from relocation of interim premises, consumer numbers increased consistently from July 2014 to November 2014.

- From November 2014 there was sustained, consistent demand for the program for the remaining 12 months of the evaluation period with an average of 75 residential consumers accessed residential CRS per month, and an average of 23 consumers received home based support.

- Program development has been achieved through a strong partnership between South Australia Health and the non-government organisation (NGO) sector, which utilized NGO experience and capacity.

- The total number of cumulative CRS consumer contacts, including cases where consumers accessed both residential and home based services, or multiple support services, increased from low initial numbers, to a total of 1,270 as at 31 October 2015.

- Overall residential services are substantially higher than home based support with 75.0% of total episodes (n=902) to 25% for home based CRS (n=300).

Program capacity and funding

- Through utilising established NGO service provider capacity and experience, the program was initiated and developed without the need for significant additional up-front investment by SA Health.

- The program has supported a total of 872 consumers from program commencement in July 2014 to 31 October 2015.

  - Overall a substantially higher proportion of CRS consumers are female (63.5%, n=554) than male (36.5%, n=318).
  
  - The higher level of female consumers is consistent across all program age bands reflecting the broader South Australian proportion of females with a mental health condition.

  - A higher proportion of females are also accessing services at younger ages compared to males, particularly home based services.

- The duration of CRS services provided reflects the short-term program focus with the substantial majority of consumers having completed their support periods within seven days, including 86.5% (n=688) of residential consumers and 59.9% (n=161) of home based consumers.

- Just over a third of residential consumers remained in the program for a full 7 days (34.6%, n=275). Collectively more than half of all consumers received a shorter duration of support than 7 days, including 51.9% (n=413) of residential consumers.
The program is achieving all reported outcomes within the approved operating funding of $17.9 million, of which the allocated budget for the study period as at 31 October 2015 was $12.1 million.

The program is reaching target populations including Aboriginal and Torres Strait Islander communities and culturally and linguistically diverse (CALD):

- 5.0% of consumers (n=44) identify as Aboriginal and Torres Strait Islander compared with 1.9% of the South Australian population.
- 12.3% of metropolitan consumers report ethnicity other than Australian, which is similar to the estimated 12.7% of South Australians who were born in predominantly non-English speaking countries.

Commonwealth targets and reporting

Program targets specified in the Commonwealth Implementation Plan for South Australia are being achieved within the total forward funding to 2015-16. These include:

- Individual satisfaction around resolution of the situation leading to crisis respite service
- Demonstrated improvements in individual satisfaction around areas such as quality of life, hope for the future, and belief in their potential to recover and regain meaningful life roles
- Improvement in mental health
- Increased stability of community tenure
- Increased family satisfaction
- Decreased psychosocial related hospitalisations
- Decreased number of emergency department presentations
- Exit plan in place and followed through contact within 7 days of exit.

Consumer outcomes

There has been a significant reduction in the number of psychiatric hospital admissions and hospital bed days for consumers who have exited the program. This includes:

- Inpatient admissions stabilised in the month following CRS before falling significantly in the following 4 weeks to average pre-crisis levels.
- An average reduction in the number of psychiatric hospital admissions of 1.1 days per consumer in the first two months after exiting the program (from 2.8 to 1.7 days).
- The reduced admissions were sustained in months 2 and 3 following CRS.
- Additionally a significant number of both residential and home based consumers are reported to have avoided inpatient admission completely as a result of the CRS program, 40.3% (512 of 1,270 episodes).
There has also been a significant reduction in the number of presentations to EDs, including:

- An average reduction in the three months after exiting the program of 0.52 ED presentations per consumer (n=404).
- Similar to inpatient admissions, a significant number of consumers (n=542, 42.7%) are reported to have avoided presentation to EDs.

Overall there was a highly statistically significant improvement in psychological distress of CRS consumers as measured through comparison of K10 scores pre and post involvement with CRS.

- The reduction in mean K10 scores was higher for residential consumers with a change of $-9.9$ (n=428)
- Home based support resulted in reduced average scores of $-6.0$ (n=101)
- Collectively for the 529 cases where there were both pre and post CRS scores, the overall reduction was $-9.2$.
- In addition to reduced K10 scores overall, approximately three quarters of consumers were experiencing severe levels of psychological distress on entry to the CRS program (74.9%, n=396).
  - This was the case across both support types with 74.8% (n=320) of residential and 75.3% (n=76) of home based consumers exhibiting severe levels of psychological distress on entry to CRS.
  - The proportions for both service types reduced significantly on exit to 32.7% (n=14) for residential and 49.5% (n=50) for home based respectively.

**Cost-effectiveness**

In terms of program objectives and budget, consumer outcomes are being achieved in line with SA Health delivery targets and within the allocated budget.

**Program funding and cost offsets**

- In addition to the broad range of consumer outcomes being achieved by the program, reduced and avoided hospital service usage is producing significant cost offsets.
- As at October 2015, these are estimated at $8.0 million, representing 65.8% of total program funding, including:
  - Reduced inpatient and ED activity cumulatively estimated at $4.5 million as at October 2015, representing approximately one third of total program funding
  - Reported inpatient and ED attendances avoided, potentially contributing a further $3.5 million of cost offsets.
- The remaining residual funding may be viewed as the cost of achieving the significant reduction in K10 scores by 9.2 points per episode
  - The reduction in mean K10 scores represents a significant outcome component contributing to the program cost effectiveness.
Consumer and stakeholder perspectives

- Overall consumers and families had a high level of satisfaction with CRS.
- Situational respite was key to the support, getting time away from the crisis and to oneself. CRS provided a “breather”, and time to “get back on their feet”. The nature of the support also allows independence and freedom, especially in contrast to hospitals.
- Mental health counselling was also key to positive outcomes, especially in terms of giving consumers the tools to “help themselves” (self-directed care).
- Many commented on the difference between CRS and other services/psychologists/hospitals in that it was less clinical, less medication-based, and more about arming consumers with ‘tools’ and strategies to help themselves.
- The most useful practical support was related to housing and basic practical matters such as dealing with bureaucracies, forms, helping re-establish routines and planning, etc.
- Friendly, approachable, non-judgemental staff were also a key to the program’s success.
- Most felt that CRS had met the needs of consumers well. This was put down to the ability to provide respite from situational crises, and assisting consumers to self-direct their own care. However situational respite might not work well for all consumers, and had not attracted many CALD/Aboriginal and Torres Strait Islander clients (but met state averages, as seen in quant). Home-based gives another option for some of these consumers.
- Stakeholders felt that residential and home-based support both offered advantages depending on the needs of the consumer, but some cautioned that only residential care could truly address the situational risk that was usually at the core of the crises.
- The partnership had generally worked well, including with regard to referrals between the partner organisations, primarily due to openness and equality between the partners, as well as effective mechanisms through which issues could be resolved such as regular meetings at several levels.
- The biggest issue was around the initial set-up delays of the program, especially with regard to finding suitable accommodation and acquiring council approval for the residential sites. It was felt that more set-up time, planning and funding could’ve helped in this regard.

Conclusion

- Overall the evaluation found that Crisis Respite Care provided substantial benefits to the wellbeing of sub-acute mental health consumers at low cost. CRS should be an integral part of a recovery oriented system of provision in mental health.
1 Introduction

This is the final report of the evaluation of the Crisis Respite Services (CRS). The program is funded and managed by SA Health and delivered in partnership with Neami National.

The evaluation team from the Social Policy Research Centre (SPRC) at UNSW Australia (the University of New South Wales) conducted the evaluation in collaboration with Époque Consulting. The overall aim of this research is to build a strong evidence base for the provision of best practice and improved policy in the delivery of recovery-oriented sub-acute crisis respite services in South Australia.

1.1 Mental health services in South Australia

South Australia’s mental health system is undergoing significant reform in relation to structure, services and approaches (SA Health, 2012). A key aspect of the South Australian mental health reform is a move to a recovery-oriented approach and the development of more rehabilitation services to support individuals’ unique and personal journeys to social inclusion and wellness (SA Health, 2008, 2010, 2012). Recovery and rehabilitation do not entail a cure for an individual’s mental illness, but rather helping individuals to achieve an improved level of wellbeing and a renewed sense of identity, purpose and meaning in life in the presence or absence of symptoms of illness (SA Health, 2010, 2012). There is no time frame set for an individual's recovery, as everyone’s recovery journey is unique (SA Health, 2010, 2012).

Overall, psychosocial rehabilitation entails a shift from an illness model towards a social functioning model that aims to improve individuals’ competencies and to introduce environmental changes to improve the quality of life of individuals with mental illness. The delivery of psychosocial rehabilitation requires a partnership approach across government and non-government sectors, including specialist providers, Government providers, non-government organisations, consumer run providers, brokerage agencies, and General Practice.

Research evidence supports the use of psychosocial rehabilitation and shows positive consumer outcomes that potentially reduce health system service use, including through reduced and avoided hospital admissions and lengths of stay. (Barbato, 2006; Barton, 1999; Crosse, 2003; Zmudzki 2015).

The reform of mental health services in South Australia has been guided by a number of national and state directives.

At a national level, key policy documents include the National Action Plan on Mental Health 2006–2011 (which emphasises coordination and collaboration between government, private and nongovernment providers), the COAG National
Mental Health Policy 2008 (which provides a strategic vision for a mental health system that enables recovery, prevents and detects mental illness early, and ensures that all Australians with a mental illness can access effective and appropriate treatment and can participate fully in society); the Fourth National Mental Health Plan 2009–2014 (which offers a framework to develop systems of care that are able to intervene early and provide integrated services across health and social domains); the National Standards for Mental Health Services 2010 (which incorporate a recovery standard and cover bed-based and community mental health services, those in the clinical and non-government sectors, the private sector, and primary care and general practice).


Stepping Up: A Social Inclusion Action Plan for Mental Health Reform 2007–2012 set the vision for mental health services in South Australia to provide a service that is people-centred and recovery-oriented. It recommended the implementation of a stepped system of care, which entails that the mental health service system is arranged as a tiered care system consisting of support across the community, supported accommodation, community rehabilitation, intermediate care, acute care and secure care (SA Health, 2012). The Psychosocial Rehabilitation Support Service Standards (SA Health, 2008) offered a framework for the provision of quality services under a recovery model within the South Australian context. The South Australia’s Mental Health and Wellbeing Policy 2010–2015 (SA Health, 2010) built on the Stepping Up reform and set key goals in relation to the well-being, service provision and social inclusion of individuals with mental illness. The Mental Health Act 2009 provided a legislative framework that explicitly articulated the rights of people with mental illness and facilitated their recovery and participation in community life (SA Health, 2012). Finally, the Statewide Aboriginal Mental Health Consultation: Summary Report July 2010 proposed thirteen recommendations aimed to improve mental health and wellbeing for Aboriginal South Australians and seven core elements relevant to all services.

1.2 Mental health subacute Crisis Respite Services – Residential and Home Based Services

Part of the National Partnership Agreement, Mental Health Subacute Crisis Respite – Residential and Home Based Services, in South Australia involved setting up a total of 24 residential based subacute crisis respite beds and 10 home based bed equivalent places within metropolitan Adelaide (SA Health, 2014c). Sub-acute Crisis Respite Services complement the stepped model of care and provide an additional
service delivery option for people with mental illness (SA Health, 2014b). The Sub-acute Crisis Respite Services are informed by a recovery based philosophy and aim to provide a period of respite care for consumers experiencing deterioration in their mental health. Consumers receive clinical and psychosocial support to assist in addressing the issues leading to the presentation in crisis and in restoring usual or improved functioning and living skills that support them to reside in the community (SA Health, 2014a, 2014b).

Overall, Crisis Respite Services are expected to reduce the number of emergency department presentations and/or hospital admissions and reduce the burden of care experienced by carers. The objectives are (SA Health, 2014a, p. 4):

- To provide home or bed-based respite for individuals presenting in crisis with issues largely social in nature, and requiring predominantly social and psychological interventions.
- To provide appropriate and timely out of hospital care for people experiencing a mental health crisis.
- To improve mental health outcomes, stop deterioration in mental health, and/or restore the individual to usual or improved functioning.
- To provide an alternative to hospitalisation or emergency department presentation in a more appropriate environment.
- To provide a therapeutic environment.
- To provide interventions up to 7 days (extension can be negotiated on the basis of acceptable rationale).
- To minimise mental health hospital admissions resulting from crisis.
- To decrease wait and stay times in emergency departments.
- To provide a timely response to referrals from mental health triage, emergency departments, community mental health services taking into account consumer, carer and mental health system context.
- To provide an alternative to hospitalisation or emergency department presentation in a more appropriate environment.
- To improve mental health outcomes.
- To stop deterioration in mental health.

The Crisis Respite Service is a partnership program between Mental Health Services and the non-government sector (SA Health, 2014b). It is operated 24 hours/7 days per week by offering both bed based crisis respite and home based crisis respite for up to 7 days (SA Health, 2014b). Each of the three metropolitan Local Health Network (LHN) – i.e. Southern Adelaide LHN, Central Adelaide LHN and Northern Adelaide LHN – have a Crisis Respite Service consisting of 8 residential beds and a home based (outreach) service with about 3.33 home based bed equivalent places per metropolitan LHN (SA Health, 2014b).
1.2.1 Target groups

Crisis Respite Services use the following criteria to identify people who are eligible for the program:

- Individuals aged between 18 and 65. People who are younger or older are accepted if developmentally appropriate and suitable for the environment and service.
- Individuals who are experiencing disruption to usual mental health and require a short term crisis respite response which may be due to one or a combination of the following or other reasons:
  - Existence of a high prevalence disorder where acute admission is not indicated, and assessed level of risk can be managed in the environment.
  - Carer whose stress levels have precipitated mental health issues.
  - Family and/or relationship issues (usual supports under stress).
  - Accommodation stress.
  - Substance misuse which is impacting on mental health and ability to function but where clinical response is not required.
  - Financial issues which impact on usual living situation (e.g. unpaid electricity bill, rent money etc.).
  - Loss and grief issues.
  - Physical health issues which impact on usual mental health and/or have prompted a crisis presentation and which can be managed within the crisis respite environment.
- Referrals must have an element of hospital avoidance, i.e. an emergency department presentation or an acute admission.
- Engagement in the Crisis Respite Service is voluntary.
- Catchment for each crisis respite facility will be based on source of referral as well as residence. The three facilities will work closely together to offer a place if the service is deemed appropriate. Equal consideration will be given to individuals from country locations, particularly those who have presented to a metro emergency department, or where a respite stay is the most appropriate and least restrictive option for care.
- Homelessness is not an exclusion for this service.
- Scheduled or planned respite is not in scope for this service.

1.2.2 Program and clinical governance

Program governance. The Crisis Respite Services program governance is managed by a Crisis Respite Project Control Group, which is convened by the Mental Health and Substance Abuse Division (the Program Management Unit responsible for the establishment and oversight of Crisis Respite Services) (SA Health, 2014b). The Crisis Respite Project Control group are convened by the Executive Lead of the Mental Health and Substance Abuse Division and have representation from senior staff within the Local Health Networks, Country Health
SA Local Health Networks, any Non-Government Organisation contracted to provide the service and a consumer and carer representative (SA Health, 2014b).

The Mental Health and Substance Abuse Division, which convenes the Control Group, is an administrative division of the Department for Health and Ageing with responsibility for the implementation of the Crisis Respite Services "which involves the provision of funding to the Local Health Networks (for the clinical component) and to the non-government sector (for the residential management and non-clinical component)" (SA Health, 2014b, p. 6).

**Clinical governance.** Each of the three metropolitan Local Health Networks (LHN) has clinical governance for a Crisis Respite Service. The Clinical Director, within each LHN, has overall clinical responsibility for the treatment and care provided to consumers of Crisis Respite Services. Each LHN establishes a Crisis Respite Services Partnership Committee, which meet on a regular and agreed basis. The Partnership Committee includes representation from the LHN and from the Non-Government Organisation(s) contracted by the Department for Health and Ageing to provide Crisis Respite Services within the LHN (SA Health, 2014b). The representatives, from each of the LHN’s, will report to the Project Control Group (SA Health, 2014b).

**1.3 SA Health Crisis Respite Services implementation plan**

The SA Health CRS Implementation Plan specifies the development and implementation of mental health residential and home based subacute crisis respite services, under the National Partnership Agreement on Improving Public Hospital Services. Under the Implementation Plan consumers experiencing deterioration in their mental health will receive a period of respite care incorporating clinical and psychosocial support to assist in addressing the issues leading to a crisis episode and to support the consumer to remain resident in the community.

The CRS program was initially established as Metropolitan Adelaide service partnership between South Australia Health and the NGO sector, with potential subsequent state wide expansion into regional country areas. The Implementation Plan was approved by Cabinet on 21 October 2013, with final budget and program delivery approval on 16 December 2013.

The establishment phase of the program reflected some delays completing the procurement process and employing initial staff while final workforce levels were confirmed across both the residential and home based support services. It was also initially planned for SA Health to acquire properties for the CRS residential support component, but approval for capital expenditure did not proceed and the final plan incorporated leasing of premises through the NGO service provider. The short implementation process for CRS also did not factor in lengthy council approval periods for each of the residential facilities.
The Implementation Plan provides details of CRS program funding and expected improvements. The expected improvements are presented above in Section 1.2, with associated total program funding of:

- Total operating funding for the two year and one month period from June 2014 to June 2016 of $17.943 million.
- The service provider component of the program for the 25 month period represents $11.267 million (GST exclusive), 62.8 percent of the program budget.
- The CRS services are indicated as time limited until June 2016 and the Implementation Plan notes they will cease when the Commonwealth funding is exhausted.

1.4 Program outcomes and evaluation objectives

The evaluation scope and objectives are presented in the program evaluation plan prepared in October 2015.¹

In summary the evaluation involves a process evaluation and an outcomes component, including a cost-effectiveness analysis. The process evaluation focuses on the effectiveness of the Crisis Respite Services, including governance structure, stakeholder relationships, collaboration, inter-agency service delivery approach, as well as consumer and carer experiences of receiving residential and home based support services.

The outcomes evaluation focuses on the impact of Crisis Respite Services on participants in the areas of quality of life, health and mental health, and community participation and examines the extent to which the Crisis Respite Services are assisting in reducing hospitalisation and presentations at emergency departments and other acute care settings.

The cost-effectiveness analysis examines the program outcomes in terms of total program funding and compares Crisis Respite Services daily program cost per ‘bed day equivalent’ to estimated cost offsets of emergency department and hospital bed day costs.

The evaluation examines key program outcomes including:

- Individual satisfaction around resolution of the situation leading to crisis respite service
- Demonstrated improvements in individual satisfaction around areas such as quality of life, hope for the future, and belief in their potential to recover and regain meaningful life roles
- Improvement in mental health

• Increased stability of community tenure
• Increased family satisfaction
• Decreased psychosocial related hospitalisations
• Decreased number of emergency department presentations
• Exit plan in place and followed through contact within 7 days of exit.

The methodology of each component of the evaluation is described in detail in Section 3.
2 Previous research on crisis respite care

2.1 Introduction

This review focuses on:

- Identifying models and best practice approaches from existing international and Australian mental health respite programs
- Exploring similar outcome evaluations of mental health crisis respite services
- Evaluating the existing knowledge on respite services in Australia and South Australia

2.1.1 Literature review search strategy

The search strategy comprised key words (mental health, crisis respite service, respite care, psychosocial rehabilitation, recovery-orientated rehabilitation) and secondary words to narrow the search focus (international, Australia, South Australia, Evaluation, Sub-acute).

The key words were employed in a search of the following academic databases:

- ProQuest Databases
- ProQuest Central
- PsycARTICLES
- PsycINFO
- Routledge, Taylor & Francis Group
- SAGE Journals
- Scopus
- Springer Science & Business Media B.V.
- Web of Science

In addition, the following sites were searched for related grey literature:

- Google Scholar
- SA Health
- NSW Department of Health

2.2 Mental health crisis respite services

2.2.1 Best practice

Crisis respite programs have received generally positive reviews in the past, helping to promote their development and implementation within the mental health sector. Within the framework of Australia’s mental health system, access to mental health care has significantly increased, with care now delivered predominantly in

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community settings rather than relying on inpatient services as in the past (SA Health 2008). SA Health has developed a recovery-oriented approach to rehabilitation services to encourage social inclusion and general wellbeing (SA Health, 2008; SA Health, 2012). De Vecchi Kenny & Kidd (2015) demonstrate the positive impact such services can provide to individuals facing sub-acute mental health crises and extensive stress or trauma.

CRS has also been based on a recovery model involving voluntary admission and self-regulation of medication. This model has been shown to successfully facilitate psychosocial rehabilitation (Hopkins & Niemiec, 2007; Lyons et al., 2009; Grant & Westhues, 2012). Support for a stepped approach of care as an alternative to inpatient admission can facilitate psychosocial rehabilitation into the community while supporting the alleviation of pressures on hospital services and clinical resources (NSW Mental Health Commission, 2014, p. 57). Less intrusive approaches to mental health crisis and respite services are becoming increasingly valuable as the need grows to reduce pressures on clinicians and emergency departments (EDs). Associated measures that have proven to be successful are greater individualised care, an emphasis on preventative measures and facilitating alternatives to hospitalisation that may be perceived as less threatening, socially excluding and stigmatising (Rosen & O’Connell, 2013; Grant & Westhues, 2012). SA Health emphasises this approach (2012) to support consumers to facilitate their own recovery and provide a sense of personal empowerment, while focusing as much as possible on the wellbeing of the consumer in the context of their social and cultural environments (Hancock & Jarvis, 2005; SA Health, 2008; Lyons et al., 2009).

2.2.2 Previous evaluations of crisis respite

In conducting a process evaluation of a mental health crisis respite service in Ontario, Canada, Grant & Westhues (2012) identify crisis respite as a valuable alternative to hospitalisation that assisted people to return to the community or make transitions in their lives. This finding aligns with a number of other relevant studies (Lyons et al. 2009; Hopkins & Niemiec 2007; Grant & Westhues, 2012; Rosen & O’Connell, 2013). These studies have emphasised the importance of pre-emptive services in providing consumers with immediate and local access in times of crisis (Lyons et al., 2009, p. 426). The employment of a triage system with optimised decision-making and referrals by experienced mental health clinicians can assist staff accessibility and availability and provide a practical and effective entry point to busy clinical services (Hopkins & Niemiec, 2007, p. 312). In Australia, joint delivery of mental health services by the public sector and NGOs, in conjunction with a stepped system of care model, may enhance consumer outcomes (SA Health, 2012; Lee et al., 2014).
2.2.3 Outcomes from evaluations of mental health crisis respite services

Successful crisis respite program outcomes
Overall, mental health respite services have been positively received internationally, with demand expanding for this model of intermediary health service. High consumer satisfaction rates and a significant decline in the severity of a wide range of psychiatric symptoms among crisis respite consumers have been attributed to the crisis respite model providing an alternative to hospitalisation (Adams & El-Mallakh 2009, p. 398; Farrelly et al., 2014, p. 1609; Rosen & O’Connell, 2013). Rosen & O’Connell (2013, p. 436) identified an improvement in distress systems, confidence and self-esteem from the time participants spent in the respite program. Thomas & Rickwood (2013) contributed high satisfaction rates among crisis respite consumers to the function of respite as an intermediary link to other services. In addition, many respite service consumers were reassured by a continuity of personnel and service providers (Hopkins & Niemiec, 2007, p. 313).

Hopkins & Niemiec (2007) found that users of a home based mental health service in Newcastle in the UK identified accessibility, availability, consistency, quality and communication as the main features that facilitated the success of the program. They emphasise that this success was dependent on having rapid access to services, as well as being able to form successful therapeutic relationships that nurtured respect between consumers and service providers (Hopkins & Niemiec, 2007, p. 313). The effectiveness of psychosocial rehabilitative methods in improving the quality of life of those with mental illness is strongly related to the strength of working relationships between consumers and clinicians, as well as between government and non-government sectors (Hopkins & Niemiec, 2007; De Vecchi et al. 2015).

Rosen & O’Connell (2013) evaluated a crisis respite program where consumers were offered short-term psychiatric rehabilitation either in-home or in residential care. In this case, the consumers had been diagnosed with severe and persistent mental illness. The program has had success in reducing hospital admissions (Rosen & O’Connell 2013, p. 434). Furthermore, Adams & El-Mallakh (2009) identify community-based crisis units suitable for voluntary and acutely ill psychiatric patients as being a cost-effective alternative to inpatient hospitalisation.

Limitations of crisis respite programs
Despite the successes of mental health crisis respite services, such programs may also face limitations during and following project implementation. One issue commonly described as warranting greater development related to ambiguous or inconsistent processes for respite service referrals and admissions (Lyons et al., 2009; Hannigan, 2013). These included disputes regarding eligibility and access, which led to negative relationships between service providers and clinicians (Hannigan, 2013, p. 217). Patient self-admission was not available in all programs
but was preferred by service users to deal with the ‘gatekeeping function’ (Lyons et al., 2009, p. 429). This is explored further below.

The importance of an individualised focus is also emphasised throughout the literature. Crises are individually defined and what constitutes crisis for one individual may not be so for another (Mechanic, 1996; Lyons et al., 2009; Grant & Westhues, 2012). Thus the definition of ‘crisis’, and therefore the criteria for admission, are difficult to standardise. Furthermore, the “revolving door phenomenon”, as identified in Grant & Westhues (2012), indicates that short-term psychiatric hospitalisation or temporary stabilisation may be inadequate for some consumers and could lead readmission. Short term interventions may lead some consumers to relapse in the long term because they become more dependent on the mental health system for treating recurrent, less severe crises.

Methods of transitioning individuals out of CRS are also significant in the final stages of the interventions. Short lengths of stay in sub-acute care programs or inadequate stepping down provisions can render treatment insufficient to positively alter the illness trajectories of consumers (Allison, Bastiampillai & Goldney, 2014). The NSW Mental Health Commission (2014) highlights the way in which hospital rehabilitation units may be at risk of becoming long-stay units when no appropriate step-down community support was provided. Hopkins & Niemiec (2007) also emphasise the importance of a slow, fully informed and negotiated ending, leading to a smooth transition back to the consumer’s doctors or alternative mental health services. This aspect of the final stages of respite services has been considered in SA Health’s “Stepping Up 2007 – 2012” reform which is centred around providing end-to-end rehabilitation or transitional assistance to ensure individuals are provided with relevant support (SA Health, 2012).

2.2.4 Implications for future decision-making

A lack of extensive outcomes evaluations of crisis respite programs makes it difficult to assess the longer term effects of these programs, including whether readmissions occur following treatment and the frequency of these readmissions. Further, evaluations will assist in determining the effectiveness of such programs in the long-term, particularly with regard to reducing pressures on clinicians and mental health services in general, and to examine their cost effectiveness (Adams & El-Mallakh 2009).

Service accessibility

Disadvantaged groups in Australia, particularly those from rural areas, young and older people, Aboriginal and Torres Strait Islanders, CALD individuals, veterans and children at risk may experience inconsistent access to evidence-based crisis respite programs because of distance, poorer health or social isolation (De Vecchi et al., 2015; Hopkins & Niemiec, 2007). Yamada & Brekke (2008) outline the importance of recognising sociocultural factors in mental health reform such as language,
religion, CALD background, and familial and social support in order to provide culturally responsive and targeted psychosocial rehabilitation services.

In an attempt to address issues relating to self-admission and referrals, some researchers have suggested that measures such as phone helplines may help to reduce waiting times, while home-based pre-emptive services may enhance service continuity and foster more effective rehabilitation (Lyons et al., 2009). In order to smooth the transition from crisis respite back into society, treatment should be incorporated into the consumer’s day-to-day routine (SA Health, 2012; Rosen & O’Connell, 2008).

Limitations of the study

Most crisis respite program evaluations have been conducted through the use of satisfaction surveys and self-evaluative procedures, potentially leading to issues relating to the subjectivity of participant responses. Conversely, limited survey response options may limit the free flow of ideas or genuine feedback (Hopkins & Niemiec, 2007, p. 310). Hancock and Jarvis (2015) have suggested that in-depth surveys or focus group interviews could add significant value to future crisis respite evaluations. Furthermore, previous evaluations have tended to lack analysis of consumer readmissions to gauge the long-term effects of crisis respite.

Further research is also needed to determine the consumer groups that benefit most from alternatives to hospitalisation and flexible treatment options (Hopkins & Niemiec 2007; Yamada & Brekke 2008; Thomas & Rickwood, 2013; Farrelly et al., 2014).

2.3 Conclusion

There is a growing evidence base indicating the effectiveness of crisis respite services as an effective medium for psychosocial recovery and rehabilitation. Overall, the recovery model framework in which CRS has been developed - as a less intrusive form of response that provides a non-medical approach to crisis intervention – has been positively evaluated (Grant & Westhues, 2012, p. 37). The most effective interventions, and those that are most likely to reduce clinical admissions, focus on providing strategies to consumers that can be used in their day-to-day lives (Rosen & O’Connell, 2013; Farrelly et al., 2014). The success of future mental health crisis respite programs will depend on policymakers taking an evidence-based, best-practice approach that meets the needs of both consumers and clinicians.
3 Methodology

3.1 Overall approach

The evaluation has been commissioned by SA Health Department, Mental Health and Substance Abuse Branch. The evaluation involved a process and outcomes evaluation, including a cost-effectiveness analysis.

The process evaluation examined the effectiveness of the Crisis Respite Services, including governance structure, stakeholder relationships, collaboration, inter-agency service delivery approach, and consumer/carer experiences of receiving services and support in their home/facility.

The outcomes evaluation assessed the impact of Crisis Respite Services on participants in the areas of quality of life, health and mental health, and community participation; and examined Crisis Respite Services in context of assisting in reducing presentations at EDs and other acute care settings.

The cost-effectiveness analysis assessed total program funding in terms of mental health, health service outcomes and Crisis Respite Services daily program cost per ‘bed day equivalent’ compared to estimated cost offsets for EDs and hospital bed days.

The evaluation consisted of the following components:

- Review of program documentation including program policy documents.
- Ethics application for qualitative and quantitative components through SA Health and the service provider.
- Quantitative evaluation using de-identified program and administrative data, including analysing the cost-effectiveness of the program.
- Qualitative research including interviews with consumers, carers, staff (department staff, service providers, the Crisis Respite Services evaluation subcommittee, the Crisis Respite Project Control Group and others identified), and other stakeholders.
- Analysis through the triangulation of findings.

Each component of the evaluation is described in detail in this Section. Appendix A summarises how the components of the evaluation fulfil the research objectives and research questions.

The evaluation was informed by a review of program documentation and data from a variety of sources. The evaluation analysed existing data generated by the program or other administrative data sources (including information available through CARS and CBIS).
Qualitative data (e.g. interviews and group discussions) were conducted with consumers, their informal carers, service providers and managers from SA Health and NEAMI.

An overview of data sources and number of participants/records that informed the evaluation is presented in Table 1 below.

Table 1: Summary of data sources

<table>
<thead>
<tr>
<th>Data Source</th>
<th>Per Location</th>
<th>Total (n)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program data (CBIS and CARS) A</td>
<td>all</td>
<td>872</td>
</tr>
<tr>
<td>Financial and administrative data B</td>
<td>all</td>
<td>872</td>
</tr>
<tr>
<td>Interviews (face-to-face)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Consumers (past program participants)</td>
<td>3–5</td>
<td>12</td>
</tr>
<tr>
<td>Family and carers</td>
<td>0–1</td>
<td>2</td>
</tr>
<tr>
<td>Focus groups/ interviews</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Service providers (gov and NGOs)</td>
<td>1–2</td>
<td>4</td>
</tr>
<tr>
<td>Phone interviews (Department staff/ program</td>
<td>-</td>
<td>6</td>
</tr>
<tr>
<td>Directors, other)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A Consumers receiving or exited Crisis Respite Services as at 31 October 2015.

B Financial data are aggregate figures used as the basis of average cost estimates.

3.2 Ethics process

Ethics approval was provided by:

- SA Health Human Research Ethics Committee for the use of de-identified administration and program data for the evaluation (ref HREC-15-SAH-11).
- SA Health Human Research Ethics Committee for the overall conduct of the evaluation in accordance with this Evaluation Plan (ref HREC-15-SAH-28) – including all fieldwork on the condition that specific site assessment All research will be conducted under ethics approval.
- Local Health Networks
- Neami national.

UNSW Human Research Ethics Committee (HREC) recognises the above ethics committees and no separate approval was required.

3.3 Review of program documentation

To better understand the program its objectives, partnership arrangements and governance structure the research team reviewed a small number of key program policy documents, specifications and related documents that informed the research design and approach, as well as a brief literature review.
3.4 Quantitative data analysis

The quantitative analysis is based on data collected through the operational systems used by SA Health for the CRS program, as well as Neami as the partner agency. The analysis includes a total of 872 consumers: all consumers from program commencement in July 2014 to 31 October 2015.

In line with the CRS program delivery targets and expected improvements, this evaluation examines outcomes for consumers for the available post program period, focusing on 3 month follow-up timeframes. The outcomes relate to both residential and home based CRS services, and related consumer level hospital service use for both inpatient admissions and emergency department presentations. The evaluation also examines available data of the Kessler Psychological Distress Scale (K10) to assess the impact of CRS support on mental health.

The quantitative analysis used de-identified program and administrative data relating to costs, service use, consumer outcomes, and other relevant program data. The program costs include operating NGO grant funding and program related SA Health salaries and wages. The service usage and consumer outcome data include pre and post program as the basis of the before and after time series framework.

The quantitative outcomes analysis has been integrated with program financial and cost data to assess the cost effectiveness of the program. The cost-effectiveness analysis measures CRS against health service cost offsets, primarily for hospital inpatient admissions and ED presentations.

The program data does not include consumer level cost records and, as such, average cost per consumer is derived from monthly reported facility based “bed days” or home based bed day equivalent amounts. As program funding is provided to the NGO service provider through aggregate transfers, the total program costs are aligned and compared to service use and corresponding cost offsets in order to indicate cost-effectiveness in broad terms.

3.4.1 SA Health data sources

The quantitative analysis is based on multiple data sources covering NGO program service delivery, program funding to the NGO service provider, and Commonwealth reporting. As CRS is based in metropolitan Adelaide, the researchers utilised CBIS system data to analyse consumer outcomes. Each data source was separately reviewed and structured to align activity and outcomes in monthly timeframes, and also in a time series framework relative to when consumers entered and exited the program.

All data sources were available for dates from program commencement in July 2014 to October 2015. As presented in Figure 1, pre-program data were also available for
the prior two years for all consumers' service usage and outcomes. The use of pre-
program data allowed the researchers to compare data about service use in the 6
consecutive months before entry, and 3 month periods following program support,
while allowing for varying consumer program entry timing. The time series
framework is described further in Section 3.3.1 below, with details on each data
source provided in the following sections.

Additionally, post program data were assessed for duration analysis and a paired
consumer cohort was established for before and after CRS comparison groups for
consumers that had completed 3 full months after exiting the program.

Separate data were also collated from a group of SA Health Rural and Regional
individuals to investigate the possibility of undertaking a comparison with a similar
cohort of mental health consumers who had used CRS.

Figure 1: CRS evaluation – data sources

Community Based Information System (CBIS)
The Community Based Information System (CBIS) is the core system used by SA
Health in metropolitan areas to capture in-patient data, as well as a range of service
delivery information, demographic and outcome measures. CBIS resides within the
National Outcome and Casemix Collection (NOCC) reporting procedures.
The CBIS consumer dataset provided a comprehensive sample of all CRS consumers as at October 2015 (6,158 records). CBIS was the source of the following data:

- Demographics, age, gender, and cultural status (e.g. Aboriginal or Torres Strait Islander, culturally and linguistically diverse)
- CRS service type for residential or home based support
- Episode type; inpatient, emergency department or community mental health service
- Primary diagnosis
- CRS program start and end dates
- Primary Reason for Crisis Respite
- Admission Questions:
  - Was the consumer likely to have attended an ED
  - Is the consumer a current inpatient
  - Could admission to CRS avoid inpatient admission

Through preliminary data preparation, supplementary variables were also derived, including:

- duration in the CRS program, separately for residential and home based
- episode duration
  - length of stay for each inpatient admission
  - allocation of assumed 1 day for each ED presentation
- post program and censor duration
- time series grouping by relative before and after month
- age band grouping

ED records include the date of presentation and often an exit or discharge date. The exit was commonly not recorded or, in many cases, included multiple days or dates. SA Health advised that ED stays longer than one day do occur in some cases while assessment and inpatient admission are being arranged. Given that the presentation date is accurately recorded but that exit dates were not always clear, it has been assumed that each ED presentation was equal to one day. This is a somewhat conservative approach and will slightly understate the total number of ED days.

SA Health staff thoroughly reviewed and cleaned CRS data to ensure data accuracy to an estimated 90 to 95% compliance rate.
Consumer Activity Report System (CARS)
The Consumer Activity Report System (CARS) has been used by SA Health since program commencement in July 2014 to manage all CRS contractual arrangements with the NGO service provider. The CARS system records the number of consumer days for residential services, and the number of consumer hours for home based services, to determine a monthly total per consumer. This in turn provides the basis for an estimated bed day equivalent figure that is used for ongoing program management and Commonwealth reporting. All hours recorded in CARS represent “intensive” hours for the purpose of estimated bed day equivalents, with no distinction between “standard” hours, as in some home based programs.

The CARS data items used in the quantitative analysis are provided in Appendix C.

Neami Carelink program data
Carelink is the core program data system by Neami for CRS consumers. Where possible, K10 scores were recorded into the Carelink dataset at entry and exit for all residential or home based CRS consumers. This provided a total paired before and after K10 sample from 529 CRS consumers, including 428 residential and 101 home based episodes.

One group of K10 scores did not appear to match scores in entry and exit forms. This group was excluded from the final paired analysis as the overall sample size was sufficient despite their exclusion.

Target country area non-consumer comparison group
The researchers suggested the possibility of developing a country-based comparison group after investigations revealed that a metropolitan-based comparison group would not be feasible for various reasons. Following discussion with Transfer of Care Co-ordinators and clinicians in the Emergency Triage and Liaison Service (ETLS), crisis cases presenting within the Rural & Remote Mental Health Service were confidentially identified for a potential alternative comparison group from May 2015 until the October 2015. Identification details were recorded internally by SA Health and verified in the country patient data system (CCCME) in cases where valid individual identification codes could be matched. The target crisis comparison group assessment and identification was undertaken over a two month period from July to August 2015.

The final group of country non-CRS consumers included 64 in-scope individuals who had presented as crisis cases. From this cohort six consumers did not have country Mental Health service contact during the relevant evaluation period. These six individuals were excluded, providing a final country comparison group of 58 individuals. This comparison group was matched to the equivalent time series framework as CRS program participants to investigate service usage before and after the time of crisis assessment.
The comparison group dataset includes equivalent demographics including age, gender, Aboriginal and Torres Strait Islander status, country of birth and main language spoken at home, as well as crisis assessment date, the reason for crisis assessment, primary diagnoses and episode classification as inpatient, ambulatory or referral. The service usage data includes hospital admissions and lengths of stay (LOS) for both discharged episodes as well as active episodes as at 31 October 2015 for the inpatient data available for the country based Integrated Mental Health Inpatient Unit (IMHIUs).

The development of paired records before and after the crisis episode produced a subgroup of seven individuals that had identified inpatient admissions. Mental health ED presentations are captured in separate sub systems and were not compiled in the CCCME dataset. The additional effort to link ED records would similarly not have supported a sufficient subgroup given the total target sample.

**Commonwealth reporting**

The CRS program is included in Commonwealth reporting procedures under South Australia’s Implementation Plan under the National Partnership Agreement on Improving Public Hospital Services. CRS Program funding is allocated as part of this agreement, including the development of the facility based and home based mental health sub-acute early intervention care.²

Commonwealth reporting documents provided program funding figures including the NGO operating grant and SA Health CRS operating budgets for program related salaries, wages and administration.

### 3.4.2 Analysis

**Time series framework**

The CRS program is a short term 7-day intervention typically without further scheduled follow up with consumers once they have left the program, although it is understood that certain consumers may receive extended support or a longer stay.

In the context of this short timeframe, the preliminary phase of the quantitative analysis developed a time series framework as the basis of comparative analysis of consumer outcomes before and after entry and exit from the CRS program. This included aligning service delivery timing with individual consumer outcomes as the basis for paired before and after analyses and combined service delivery funding with monthly consumer growth during the establishment and program development period for the cost effectiveness components. Program outcomes assessed changes in inpatient admissions and lengths of stay, ED presentations, and hospital services avoided as a result of program intervention. Similarly, before and after

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² Commonwealth reporting includes Project E3 for facility based support services and Project E4 for home based CRS.
comparisons were undertaken for community mental health services, and mental health assessment before and after CRS support in terms of psychological distress as measured through the K10 instrument. Collectively, the time series framework supported a substantial sample of matched before and after scores for individual consumers referred to the CRS program.

The quantitative analysis is based on data collected through the operational systems used by SA Health for the CRS program and includes all consumers from program commencement in July 2014 to 31 October 2015, a total of 872 consumers. In line with the service delivery targets and expected improvements, and the short term (generally 7 day) focus of the CRS program, the analysis examines outcomes for consumers for the currently available post program period, focusing on the 3 months post-exit.

The time series dataset has been used to compare ED presentations and days in hospital for CRS consumers before and after their involvement in CRS. The data has been collated into a post program duration cluster for consumers who have completed a full 3 months since exiting CRS. This provided a sufficient sample size for paired statistical analysis on the same individual consumers before and after entry and exit. The paired “balanced” before and after cluster controls for consumer covariance in baseline characteristics as they focus on timeframes directly before and after CRS support, with the only explicit change being their participation in the program.

The cost-effectiveness analysis examines CRS against the primary mental health outcomes as measured through the before and after K10 scores and through health service cost offsets, primarily for hospital inpatient admissions and ED presentations.

Statistical analysis of before and after service usage changes was undertaken using Stata® statistical software (Special Edition Version 13.1 2014, College Station, Texas).

Consumer duration analysis

The post program period was also assessed to determine the relative duration and timing of any other service use or other consumer outcomes. This was undertaken to verify sufficient post program duration to capture as much comparative before and after timeframe as possible. This type of time series analysis is often limited by the number of individuals passing through the program (which could limit the degree to which sub-group analysis can be undertaken), or through ‘right censoring’ – some consumers may have left the CRS program only recently (or might still be in the program) and therefore insufficient time will have passed to fully assess the impact of the program on hospital admission patterns. In order to account for these factors, as described in the previous section, a paired before and after consumer cluster was developed based on consumers who had completed 3 full months of post program
duration. This provided a sufficient sample size to support the statistical analyses and managed the censoring issue without the need for additional duration analysis techniques.

**Propensity score matching**

Propensity score matching (PSM) is an approach that may be used in observational studies to estimate the treatment effect of an intervention when potential program participants have not been randomly allocated to treatment and non-treatment groups. The approach aims to control for variation in consumer baseline characteristics to conditionally predict where individuals outside of the program may have been accepted for support services, and to compare outcomes on this basis.

In addition to the core before and after analysis, data sources were initially considered for the possibility of undertaking propensity score matching as the basis for a non-consumer comparison group. Following initial discussion with the CRS project team it was established that a target study comparison group could potentially be identified in country regions where the CRS program is not yet available, as detailed above. This approach for the target country comparison group was expected to provide a more suitably matched basis for those in comparable crisis situations given that it is well recognised that mental health episodes are complex and specific to a wide range of individual factors and diagnoses, including potentially important non-observable characteristics.

The evaluation team initially considered sampling non-CRS consumers to assess whether a comparative cohort could be identified of sufficient quality to adequately estimate propensity scores as the basis for comparison group matching. Under this approach consumers are potentially matched on a number of pre-program variables, in particular:

- Age, gender, Aboriginal status
- Primary and where feasible secondary diagnoses
- History of mental health use, particularly hospital admission

The target country region CRS non-consumer comparison group was collated as a more suitable matching basis for comparison and replaced the PSM component. This was additionally considered a preferred approach given the short term (up to 7 day) CRS intervention, or intermittent home based support, and the advantage of basing the before and after analysis on an exact date of a presenting crisis episode.
**Bed day equivalents**

Bed day equivalents are calculated based on conversion factors tabled for Health and Ageing Senate Estimates. In summary, the formula provided for intensive home based subacute care, as used for CRS, is:

*Home based subacute care (intensive)*

An occasion of interdisciplinary care provided to a non-admitted patient as a direct substitute for an inpatient admission and with the same level of clinical intensity as care on an inpatient unit. This care is typically provided as a component of a broader program and typically includes care:

- by more than one discipline
- of at least three hours duration and
- that is provided in the person's usual place of accommodation or similar.

*Conversion factor for intensive home-based subacute care:*

- 1.5 occasions of service = one hospital bed day
- 465 occasions of service = one hospital bed year
- A hospital bed year, a hospital bed that is available for the full year (365 days) with an occupancy rate of 85%, is to be used for the purpose of calculating bed year equivalents.

**Cost effectiveness**

The initial analysis phase reviewed data from the CBIS and CARS systems to establish CRS consumer profiles across funding, service delivery and demographic dimensions. The preliminary data provided average benchmark costs in the context of residential days and service support hours per month, as recorded in CARS, to establish the cumulative program cost trajectory. Service delivery costs were then aligned with consumer outcomes and health system service usage from CBIS through the times series framework.

The program economic component has been developed, based on the quantitative analysis, by incorporating and aligning cost data for both bed based and home based sub-acute services in order to estimate the cost effectiveness of providing CRS, and whether this is a viable service delivery model.

The program service delivery cost basis was derived from combining residential based days and home based service hours, and the estimated bed day equivalent,
with aggregate program funding and cost data. The resulting average cost estimates have also been aligned with monthly program utilisation patterns and the timing of cost offsets, including reduced hospital lengths of stay and reduced ED presentations post program. The cost offsets also include avoided health service usage, both inpatient and ED, resulting from the provision of CRS.

Cost effectiveness is analysed through the short CRS timeframe, which may limit the sensitivity of service usage changes over subsequent months. The countering aspect will be to identify where possible the circumstances that led to the crisis and the implications for the consumer if CRS support had not been available.

The program data does not include consumer level cost records and is based on average cost per consumer based on bed days and support hours. As program funding is provided to the NGO service provider through periodic grant transfers, the total program costs are aligned and compared to service use and corresponding cost offsets in order to indicate cost-effectiveness in broad terms.

Cost effectiveness and model scenarios
As part of the cost effectiveness analysis, model scenarios were developed to investigate potential costs and outcomes. This is particularly useful for gauging the proportion of reported hospital and ED presentations avoided. There may be further scenarios that could model extended timeframes, for example reduced health service usage and relapse in subsequent months and quarters. In the case that post program consumer outcomes are sustained over longer timeframes, perhaps 6 or 9 months, this may potentially contribute significantly to the profile of ongoing health service cost offsets and correspondingly to the program cost effectiveness.

However, these potential ongoing benefits interrelate with confounding factors and, consistent with the conservative approach taken in this evaluation, are not explicitly included in the program cost effectiveness estimates. A core cost effectiveness base case has been developed focused on relatively short term outcomes combined with established program demand to develop a projected rolling estimate based on program utilisation. This estimate has provided the basis for projections of outcomes beyond the evaluation timeframe.

3.5 Qualitative research

The qualitative research consisted of interviews with key stakeholders and program managers, and with consumer and carers in the three LHNs. Stakeholder and manager interviews were generally conducted over the phone while consumer and carer interviews were generally conducted face-to-face.

Table 2 below shows different stakeholder groups and the total number of interviews by location/group.
### Fieldwork was carried out in the three LHNs where Crisis Respite Services are delivered.

#### 3.5.1 Consumer interviews

We collected interview data from consumers who were currently in the program or who had recently exited. In total 12 consumers were interviewed across the three LHNs.

The interviews focused on consumers’ previous and current state of wellbeing and personal circumstances, the types of support and services they had received, and outcomes they had experienced as a result of being involved with CRS.

#### 3.5.2 Carer interviews

Carers were interviewed to better understand the experience of receiving CRS and to provide insights into outcomes consumers may have experienced. Two family members were interviewed across the three LHNs. This was fewer interviews than had been planned as it became clear that it was unusual for staff to have contact with family members due to the unplanned nature of most admissions, and the fact that many consumers don’t have contact with family or are homeless.

#### 3.5.3 Stakeholder focus groups and phone interviews

The research team interviewed staff and stakeholders of the CRS program, including departmental and Neami staff members. These stakeholders were involved in the oversight, management, and delivery of CRS. Ten stakeholders were interviewed. The research team asked stakeholders about processes and governance arrangements that impact on the effectiveness of the initiative (its strengths and weaknesses), and how issues could be addressed for future service improvement.
3.6 Analysis and triangulation of findings

The analysis involved triangulation of data including program policy and documentation, quantitative program, administration and financial data, and qualitative data collected. The final report will draw together the preliminary findings of the quantitative and qualitative components of the research, and any feedback received from the Crisis Respite Services Evaluation sub-committee.

The final report has been written in a language suitable for wider distribution to stakeholders, such as participating consumers and service providers.
4 Crisis respite service consumer profiles and service delivery

This section provides demographic details for all CRS consumers, including both residential and home based support. It also presents program usage from the establishment phase and ongoing service delivery trend, as well as average service duration of CRS support, primary mental health diagnoses and reported reasons for accessing the program.

4.1 Demographics

The CRS program is available for individuals aged between 18 and 65, as well as older or younger people if they are assessed as appropriate for the service. As described in the introduction section, eligible consumers may be experiencing various types of mental health crisis including episodic, high prevalence disorders where acute admission is not indicated, carer related stress, family or relationship issues, and accommodation stress or substance misuse.

In addition to support services for the broader community, the program targets particular populations; young people and Aboriginals and Torres Strait Islanders. It should be noted that while comparisons are made between CRS consumers and the general South Australian population, this analysis does not include a comparison between CRS consumers and South Australian mental health consumers, which may have provided a more accurate comparison.

Stakeholder interviews indicated that although CRS has been successful in reaching Aboriginal and Torres Strait Islander people and young people, there is room for improvement in engaging with these groups.

- The relationship between CRS and Aboriginal Community Controlled Health Organisations is not clear to key staff and this has been a barrier to the promotion of the program within the Aboriginal community.
- Young people have more complicated referral pathways and transitions to CRS (and other programs) than other consumers and this is also true for older (50 years and over) consumers.

4.1.1 Age and gender

Overall a substantially higher proportion of CRS consumers are female (63.5%, n=554) than male (36.5%, n=318). The higher level of female consumers is consistent across all program age bands as presented in Figure 2. This reflects the
broader South Australian proportion of the population reported as having a mental health condition, which is statistically significantly higher for females than males. 4

Crisis respite service consumers (n=872) are relatively normally distributed across age bands, with a higher proportion of females accessing services at younger ages. Approximately twice the number of females accessed the program in the 19 to 24 age band (n=81), compared to males (n=40). The highest level of female access was in the 25 to 34 year age band.

By comparison lower numbers of males accessed services in the 19 to 24 and 25 to 34 age bands, with peak male frequency in the 35 to 44 age group. Adjusting for the higher number of females overall the distribution across age groups is relatively similar and normally distributed (dotted lines and right hand scale).

**Figure 2: Program consumer age and gender**

Source: CBIS, n=872

The number of consumers represents the total number of individuals including those that received residential or home based CRS, or both, or repeat support episodes of either support type. In order to examine the age and gender distribution by CRS service type the following figures are presented as episodes of support and include cases where consumers accessed both residential and home based services, and multiple support services for repeat consumers (n=1,202).

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4 Government of South Australia, Health Performance Council, Mental health conditions in South Australia -- by age and sex, 2014.
Overall residential services are substantially higher than home based support with three quarters (75%) of total episodes being residential (n=902) compared to 25% for home based CRS (n=300). Within the age and gender distribution the proportions of consumers accessing residential or home based support reflect the higher numbers of residential CRS across all age bands, as shown in Figure 3 (dark base portion of each group). This view of the age and service type mix shows the higher proportion of females accessing home based support, particularly in the younger and middle age bands (light blue section of each band) compared to males (notably smaller light red portions).

**Figure 3: Program consumer age and gender by service type**

![Figure 3: Program consumer age and gender by service type](image)

Source: CBIS, n=1,202 as based on episodes including multiple episodes for repeat consumers

**Target country comparison group**

The target country comparison group provided a substantially smaller sample (n=55) compared to the CRS consumer sample (n=872) and is not sufficient to support statistically significant analyses. The age and gender distribution of the target comparison group is relatively consistent with the program sample, with a higher proportion of identified crisis cases presenting in country regions being female (52.7%, n=29) compared to males (47.3%, n=26), as presented in Figure 4.

The comparison group is relatively normally distributed across age bands, although as for CRS consumers, a slightly higher proportion of females accessed the service at younger ages with approximately twice the number of females to males in the 25 to 34 age band (n=14).
As such, CRS is successfully targeting people who identify as Aboriginal or Torres Strait Islander, with 44 consumers of the total program of 872 indicating Aboriginal status (5.0%). However, this figure must be read in the context of higher than average rates of mental health conditions within the Aboriginal and Torres Strait Islander population in South Australia (as in other jurisdictions).

Aboriginal and Torres Strait Islander South Australians report a high to very high rate of psychological distress at almost three times the rate of the wider South Australian population, the highest of any Australian jurisdiction. Aboriginal and Torres Strait Islander people represent 7.5% of mental health related ED presentations, compared to 5.2% of total ED presentations.

Aboriginal and Torres Strait Islander people in SA metropolitan areas also use mental health services at a higher rate than in country regions. The proportion of Aboriginal and Torres Strait Islander people using mental health services within

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5 Australian Bureau of Statistics, 2075.0 - Census of Population and Housing - Counts of Aboriginal and Torres Strait Islander Australians, 2011
metropolitan areas is an estimated 15.5%, significantly higher than country regions at 4.5%, where the CRS program is currently not available.⁶

Table 3: CRS consumers by Aboriginal and Torres Strait Islander status

<table>
<thead>
<tr>
<th>Status</th>
<th>Consumers n</th>
<th>Consumer %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal and/or Torres Strait Islander</td>
<td>44</td>
<td>5.0</td>
</tr>
<tr>
<td>Not Aboriginal or Torres Strait Islander</td>
<td>700</td>
<td>80.3</td>
</tr>
<tr>
<td>Status not stated</td>
<td>128</td>
<td>14.7</td>
</tr>
<tr>
<td>Total</td>
<td>872</td>
<td>100.0</td>
</tr>
</tbody>
</table>

4.1.3 Consumers from culturally and linguistically diverse backgrounds

Across metropolitan Adelaide, 107 consumers identified ethnicity as being other than Australian, representing 12.3% of total CRS consumer contacts. There is potential variation with established definitions of culturally and linguistically diverse (CALD) populations although this proportion is similar to an estimated 12.7% of South Australians who were born in predominantly non-English speaking countries. South Australia is below the national average of 15.7%.⁷

Table 4: CRS consumers by ethnicity

<table>
<thead>
<tr>
<th>Ethnicity</th>
<th>Consumers n</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian</td>
<td>707</td>
<td>81.1</td>
</tr>
<tr>
<td>Not Recorded</td>
<td>58</td>
<td>6.7</td>
</tr>
<tr>
<td>Aboriginal</td>
<td>23</td>
<td>2.6</td>
</tr>
<tr>
<td>English</td>
<td>23</td>
<td>2.6</td>
</tr>
<tr>
<td>Greek</td>
<td>10</td>
<td>1.1</td>
</tr>
<tr>
<td>New Zealand</td>
<td>6</td>
<td>0.7</td>
</tr>
<tr>
<td>Scottish</td>
<td>4</td>
<td>0.5</td>
</tr>
<tr>
<td>Chinese</td>
<td>4</td>
<td>0.5</td>
</tr>
<tr>
<td>American</td>
<td>4</td>
<td>0.5</td>
</tr>
<tr>
<td>Maori</td>
<td>3</td>
<td>0.3</td>
</tr>
<tr>
<td>British</td>
<td>3</td>
<td>0.3</td>
</tr>
<tr>
<td>Sth African</td>
<td>2</td>
<td>0.2</td>
</tr>
<tr>
<td>Sudanese</td>
<td>2</td>
<td>0.2</td>
</tr>
<tr>
<td>Indian</td>
<td>2</td>
<td>0.2</td>
</tr>
<tr>
<td>German</td>
<td>2</td>
<td>0.2</td>
</tr>
<tr>
<td>Iranian</td>
<td>2</td>
<td>0.2</td>
</tr>
<tr>
<td>Other</td>
<td>17</td>
<td>1.9</td>
</tr>
<tr>
<td>Total</td>
<td>872</td>
<td>100.0</td>
</tr>
</tbody>
</table>

Source: CBIS, n=872

Note: CBIS data categories include ethnicity as presented in table as well as country of birth which may result in minor variation to comparative CALD definitions.

Comparison group data from CCCME record place of birth and language spoken at home. As indicative figures based on the smaller country crisis cases (n=55) all but one was reported as English speaking (54/45) with the remaining case not having language identified. This would tend to reflect generally lower proportions of CALD individuals in rural regions.

4.2 Program establishment

For several months after program commencement in July 2014, the number of consumers entering the program was low due to set up delays and relocations from interim premises. Stakeholders commented on the effect of these delays and relocations in Section 7.6.

Despite the slightly delayed initial phase, consumer numbers increased consistently from July 2014 to November 2014 from which point there was sustained, consistent demand for the program for the remaining 12 months of the evaluation period. From November 2014 to October 2015, an average of 75 consumers accessed residential CRS per month, and an average of 23 consumers received home based support.

As presented in
Figure 5, the total number of cumulative CRS consumers increased from low initial numbers, to a total of 1,270 as at 31 October 2015. Residential CRS represents a higher proportion of total program consumers (light blue dotted line) than home based consumers (dark blue dotted line).
Figure 5: CRS Program development by support service type

Source: CBIS: Facility based services n=903, Home based services n=300

The monthly bars indicate the number of CRS episodes with the higher proportion of residential contacts (light blue portion) remaining relatively stable following the initial program establishment phase.

4.3 Program duration and service delivery

The CRS initiative is a short-term intervention, typically intended to be seven days, although in some cases consumers can receive an extended service, or receive periods of both residential and home based support. The duration of CRS services provided reflect the short-term program focus with the substantial majority of consumers having completed their support periods within seven days, including 86.5% (n=688) of residential consumers and 59.9% (n=161) of home based consumers, as shown in Figure 6.

The largest proportion of residential consumers remained in the program for a full 7 days (34.6%, n=275). Collectively more than half of all consumers received a shorter duration of support than 7 days, including 51.9% (n=413) of residential consumers.
Figure 6: Duration of residential and home based crisis respite support

![Figure 6: Duration of residential and home based crisis respite support](image)

Source: CBIS, residential n=795 exited consumers, Home based n=269

Of those receiving support beyond the target seven days, the largest proportion received an additional 1 or 2 days (9.6%, n=76), and a further declining number of consumers received an additional 3 or 4 days (2.6%, n=21). Eight consumers received support beyond 11 days (1.0%) for a given episode during the 16 month evaluation period from July 2014 to October 2015.

4.4 Reason for accessing CRS

Reported reasons for accessing residential or home based CRS support focused on social (34.7%) and accommodation (22.4%) factors as presented in Table 5. Recent psychological trauma and victimisation collectively related to a further significant portion of consumers.

Table 5: Consumer reason for accessing CRS services

<table>
<thead>
<tr>
<th>Reason for CRS</th>
<th>Home Based Consumers</th>
<th>Residential Consumers</th>
<th>Total Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
</tr>
<tr>
<td>Social</td>
<td>69</td>
<td>38.8</td>
<td>189</td>
</tr>
<tr>
<td>Accommodation</td>
<td>16</td>
<td>9.0</td>
<td>151</td>
</tr>
<tr>
<td>Recent Psychological Trauma</td>
<td>33</td>
<td>18.5</td>
<td>99</td>
</tr>
<tr>
<td>Victimisation/Vulnerability</td>
<td>25</td>
<td>14.0</td>
<td>70</td>
</tr>
<tr>
<td>Not Recorded</td>
<td>16</td>
<td>9.0</td>
<td>39</td>
</tr>
<tr>
<td>Financial</td>
<td>11</td>
<td>6.2</td>
<td>10</td>
</tr>
<tr>
<td>Recent Physical Trauma</td>
<td>8</td>
<td>4.5</td>
<td>8</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>178</strong></td>
<td><strong>100.0</strong></td>
<td><strong>566</strong></td>
</tr>
</tbody>
</table>

Source: CBIS (n=862)
Sections 6.2 and 6.4 contain comments from interview participants with regard to the areas of life in which they felt CRS was most effective, including living independently and maintaining accommodation.

4.5 Reported mental health diagnoses

The most commonly reported mental health diagnosis for CRS consumers was grouped under the designation ‘mental disorder not otherwise specified’ (31.3%, n=398), Table 6. This reflects the short term CRS consumer base as generally not presenting with chronic or more specific diagnoses. Customers with chronic conditions are generally supported through higher level programs in the stepped care model.

Table 6: Reported mental health diagnoses by CRS type

<table>
<thead>
<tr>
<th>Diagnosis</th>
<th>Residential</th>
<th></th>
<th>Home Based</th>
<th></th>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consumers n</td>
<td>Consumers %</td>
<td>Consumers n</td>
<td>Consumers %</td>
<td>Consumers n</td>
<td>Consumers %</td>
</tr>
<tr>
<td>Mental disorder not otherwise specified</td>
<td>282</td>
<td>29.5</td>
<td>116</td>
<td>36.8</td>
<td>398</td>
<td>31.3</td>
</tr>
<tr>
<td>Suicidal Ideation</td>
<td>117</td>
<td>12.3</td>
<td>28</td>
<td>8.9</td>
<td>145</td>
<td>11.4</td>
</tr>
<tr>
<td>(blank)</td>
<td>70</td>
<td>7.3</td>
<td>23</td>
<td>7.3</td>
<td>93</td>
<td>7.3</td>
</tr>
<tr>
<td>Emotion unstable person disrd borderline</td>
<td>62</td>
<td>6.5</td>
<td>16</td>
<td>5.1</td>
<td>78</td>
<td>6.1</td>
</tr>
<tr>
<td>Adjustment disorders</td>
<td>54</td>
<td>5.7</td>
<td>19</td>
<td>6.0</td>
<td>73</td>
<td>5.7</td>
</tr>
<tr>
<td>Mod depres ep not in postnatal period</td>
<td>29</td>
<td>3.0</td>
<td>10</td>
<td>3.2</td>
<td>39</td>
<td>3.1</td>
</tr>
<tr>
<td>Bipolar affective disorder unspecified</td>
<td>20</td>
<td>2.1</td>
<td>12</td>
<td>3.8</td>
<td>32</td>
<td>2.5</td>
</tr>
<tr>
<td>Paranoid schizophrenia</td>
<td>25</td>
<td>2.6</td>
<td>5</td>
<td>1.6</td>
<td>30</td>
<td>2.4</td>
</tr>
<tr>
<td>Schizophrenia unspecified</td>
<td>23</td>
<td>2.4</td>
<td>4</td>
<td>1.3</td>
<td>27</td>
<td>2.1</td>
</tr>
<tr>
<td>Unspecified nonorganic psychosis</td>
<td>20</td>
<td>2.1</td>
<td>5</td>
<td>1.6</td>
<td>25</td>
<td>2.0</td>
</tr>
<tr>
<td>Acute stress reaction</td>
<td>22</td>
<td>2.3</td>
<td>3</td>
<td>1.0</td>
<td>25</td>
<td>2.0</td>
</tr>
<tr>
<td>Anxiety disorder unspecified</td>
<td>20</td>
<td>2.1</td>
<td>4</td>
<td>1.3</td>
<td>24</td>
<td>1.9</td>
</tr>
<tr>
<td>Schizoaffective disorder unspecified</td>
<td>16</td>
<td>1.7</td>
<td>6</td>
<td>1.9</td>
<td>22</td>
<td>1.7</td>
</tr>
<tr>
<td>Mixed anxiety and depressive disorder</td>
<td>18</td>
<td>1.9</td>
<td>4</td>
<td>1.3</td>
<td>22</td>
<td>1.7</td>
</tr>
<tr>
<td>Depres ep not in the postnatal period</td>
<td>5</td>
<td>0.5</td>
<td>12</td>
<td>3.8</td>
<td>17</td>
<td>1.3</td>
</tr>
<tr>
<td>Post traumatic stress disorder</td>
<td>11</td>
<td>1.2</td>
<td>1</td>
<td>0.3</td>
<td>12</td>
<td>0.9</td>
</tr>
<tr>
<td>Personality disorder unspecified</td>
<td>10</td>
<td>1.0</td>
<td>1</td>
<td>0.3</td>
<td>11</td>
<td>0.9</td>
</tr>
<tr>
<td>Other diagnoses</td>
<td>151</td>
<td>15.8</td>
<td>46</td>
<td>14.6</td>
<td>197</td>
<td>15.5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>955</strong></td>
<td><strong>100.0</strong></td>
<td><strong>315</strong></td>
<td><strong>100.0</strong></td>
<td><strong>1270</strong></td>
<td><strong>100.0</strong></td>
</tr>
</tbody>
</table>

Source: CBIS (n=1,270)

The second most common reported mental health diagnosis was suicidal ideation, 12.3% of residential consumers (n=117) and 8.9% of home based support (n=23), 11.4% of all CRS consumers (n=145).
5 Consumer outcomes

This section presents the primary consumer outcomes using both program and interview data from consumers, carers, and staff. In line with the CRS program objectives, consumer outcomes have been assessed in terms of:

- Reduced inpatient admission and lengths of stay,
- Reduced ED presentations,
- Avoided inpatient admissions,
- Avoided ED presentations,
- Improved patient mental health outcomes (based on K10), and
- Corresponding use of community mental health services.

The outcome analyses are based on available metropolitan Adelaide CBIS data and Neami program data for mental health outcomes through K10 scores. Each section of the quantitative analysis is based on de-identified program and administrative data using the paired before and after time series framework and is extended using interview data.

5.1 Inpatient admissions and lengths of stay

The analysis of inpatient admissions before and after CRS support is based on an established core consumer cluster including data relating to service use 6 months prior and 3 months post CRS involvement. As all consumers in this subgroup have exited CRS for a full 3 months this eliminates the potential issue of right censoring and provided a sufficient matched sample size for statistical analysis (n=214).

Overall the study group experienced an increase in hospital admissions in the months immediately prior to CRS support, a levelling off at the point of CRS, followed by a significant decline to pre-program levels as presented in Figure 7. The figures indicate total number of admitted days per month (left axis), and the total number of inpatient admissions per month (right axis). The corresponding statistical significance of monthly before and after changes are presented further below in Table 7.

5.1.1 Months leading up to CRS

The average number of admitted days prior to CRS for the paired group of 214 consumers was in the order of 200 days per month (around 1 day per consumer per month) and remained around this level for the months leading up to the crisis episode. The two months prior to CRS reflect a significant increase in the number or inpatient admissions and the corresponding average length of stay to around 400 days per month two months prior (around 2 days per consumer per month) to CRS.
and 600 in the month directly prior to program support (around 3 days per consumer per month).

A further significant pre CRS factor relates to the number of admissions avoided as a result of program support. As presented in Section 4.1.2, a relatively high proportion of consumers were assessed by clinicians as having avoided admission completely and are therefore not included in the pre-program admission data. In the case that a portion of these proceeded to hospital the level of admissions for this cohort would plausibly be substantially higher. The estimated number of avoided inpatient admissions are shown as the additional pre-program gap, indicated with parentheses. Both of these avoided and reduced components provide context for the before and after CRS outcomes and are examined separately in the estimated program cost effectiveness.

**Figure 7: Inpatient admissions and admitted days before and after CRS**

![Inpatient admissions and admitted days before and after CRS](image)

Source: CBIS (n=214)

**5.1.2 CRS support period**

The relatively short timeframe of CRS, generally up to 7 days, provides responsive support services with flexibility to target crisis episodes quickly. The before and after framework is based on months relative to CRS start date and months after exit date however many days the consumer received CRS services.

The actual number of hospital admissions, excluding admissions avoided, stabilised at the point of CRS (solid lines in Figure 7). The slight increase in the average number of admissions in the first month following CRS is not statistically different from the level prior to support. These figures at the point of CRS also reflect a number of admissions that proceeded within days of commencing support, with the highest proportion of admissions within 4 weeks of CRS diagnosed for suicidal ideation, 10 of 58 (17.2%). This may partially reflect closer professional monitoring
while in CRS and subsequent admission that might have gone undiagnosed or been delayed otherwise.

The hospital admissions directly before and after CRS also reflect the reported program outcome of avoiding admissions completely, even though these avoided cases are not part of the CBIS actual hospital activity. When the admissions avoided are included in the before and after comparison (indicated by dotted lines) the level of admissions and average total days admitted are below the pre CRS level in the month directly following support. These levels then continue to fall significantly in the following period.

5.1.3 Months after CRS

Following stabilisation in admissions at the point of CRS support, and reduction when including admissions reported to be completely avoided, a statistically significant fall in average inpatient length of stay occurred within 8 weeks post program. This reduction is in line with the substantial fall in the number of admissions within 2 months post CRS, which was then sustained during month 3 post program at relatively low levels, similar to those prior to the crisis episode.

The post CRS figures also partially reflect a transitional discharge support pathway with 6.1% of total consumers being current inpatients when referred to CRS, particularly for residential CRS support, as presented in Table 8. A similarly significant before and after CRS pattern occurred for ED presentations as presented in the following section.

5.1.4 Inpatient levels before and after CRS

Statistical analysis of before and after service usage changes are based on paired before and after figures for consumers, as presented in Table 7. The results indicate an increasing average length of stay in the months prior to crisis events, with admissions and lengths of stay stabilising within 4 weeks following CRS, and reducing significantly in the following 4 weeks to relatively similar pre-crisis levels.

Table 7: Average inpatient length of stay – 6 months before to 3 months after CRS

<table>
<thead>
<tr>
<th></th>
<th>Number of consumers</th>
<th>Month Prior</th>
<th>Month Post</th>
<th>Change</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean Inpatient LOS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-6 to M-5</td>
<td>214</td>
<td>0.8</td>
<td>0.4</td>
<td>−0.4</td>
<td>0.326</td>
</tr>
<tr>
<td>M-5 to M-4</td>
<td>214</td>
<td>0.4</td>
<td>1.1</td>
<td>+0.7</td>
<td>0.142</td>
</tr>
<tr>
<td>M-4 to M-3</td>
<td>214</td>
<td>1.1</td>
<td>0.7</td>
<td>−0.4</td>
<td>0.385</td>
</tr>
<tr>
<td>M-3 to M-2</td>
<td>214</td>
<td>0.7</td>
<td>1.8</td>
<td>+1.1</td>
<td>0.016</td>
</tr>
<tr>
<td>M-2 to M-1</td>
<td>214</td>
<td>1.8</td>
<td>2.8</td>
<td>+1.0</td>
<td>0.185</td>
</tr>
<tr>
<td>M-1 to M+1</td>
<td>214</td>
<td>2.8</td>
<td>5.2</td>
<td>+2.4</td>
<td>0.032</td>
</tr>
<tr>
<td>M+1 to M+2</td>
<td>214</td>
<td>5.2</td>
<td>1.7</td>
<td>−3.5</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>M+2 to M+3</td>
<td>214</td>
<td>1.7</td>
<td>1.6</td>
<td>−0.1</td>
<td>0.864</td>
</tr>
</tbody>
</table>

Source: CBIS
Note: Consumer cluster based on 3 month post CRS n=214, paired t-test on matched before and after consumers.

5.1.5 Reduced length of stay with CRS support

As presented in Table 8 a total of 78 consumers (6.1%) were reported as current inpatients when they entered CRS support. The proportion of residential CRS consumers is substantially higher, which reflects a temporary discharge pathway which may contribute to slightly reduced lengths of stay due to consumers feeling able to transition through a residential facility or safely return home with home based support.

Table 8: Current inpatients referred to CRS program

<table>
<thead>
<tr>
<th>Current inpatient</th>
<th>Home Based</th>
<th>Residential</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consumers</td>
<td>Consumers</td>
<td>Consumers</td>
</tr>
<tr>
<td>No</td>
<td>172</td>
<td>54.6</td>
<td>494</td>
</tr>
<tr>
<td>Yes</td>
<td>6</td>
<td>1.9</td>
<td>72</td>
</tr>
<tr>
<td>Not reported</td>
<td>137</td>
<td>43.5</td>
<td>389</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>315</strong></td>
<td><strong>100.0</strong></td>
<td><strong>955</strong></td>
</tr>
</tbody>
</table>

Source: CBIS (n=1,270)

5.1.6 Avoided inpatient admissions

In addition to reduced inpatient admissions post program and potential reduced LOS resulting from early discharge, a significant proportion of consumers targeted as ‘at risk’ of inpatient admission are reported to have avoided hospital completely as a result of the program. The program responsiveness and capacity enables rapid intervention of developing episodes and is diverting consumers from hospital events altogether. Avoided admissions is an additional component to reduced admissions and LOS and is not reflected in CBIS figures in the month prior to program entry.

Table 9: Inpatient admissions avoided by service type

<table>
<thead>
<tr>
<th>Avoided inpatient</th>
<th>Home Based</th>
<th>Residential</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Consumers</td>
<td>Consumers</td>
<td>Consumers</td>
</tr>
<tr>
<td>No</td>
<td>61</td>
<td>19.4</td>
<td>170</td>
</tr>
<tr>
<td>Yes</td>
<td>116</td>
<td>36.8</td>
<td>396</td>
</tr>
<tr>
<td>Not reported</td>
<td>138</td>
<td>43.8</td>
<td>389</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>315</strong></td>
<td><strong>100.0</strong></td>
<td><strong>955</strong></td>
</tr>
</tbody>
</table>

Source: CBIS

As presented in Table 9 a relatively high proportion of both residential and home based consumers are reported to have avoided inpatient admission as a result of the CRS program, 40.3% of total CRS episodes. This indicates that a significant
The number of consumers avoided inpatient admission completely through entry to the program rather than hospital. The comparative before and after change does not capture these avoided admissions as it is based on pre and post CRS average lengths of stay. For this reason the reported avoided admissions are estimated and presented as a separate potential component in the cost effectiveness analysis.

This question records a subjective judgement by the clinician and is accordingly presented as a suggestive figure. Despite this, the fact that a significant proportion of consumers are considered to have avoided hospital health services suggests the program is contributing to a significant number of avoided hospital admissions.

Consumers interviewed in the qualitative phase of the fieldwork commented positively on the fact that their admittance to CRS had meant they had avoided a hospital stay (see Section 6.4.6), or had acquired strategies that would make a hospital stay less likely in the future. Clinical service staff also facilitate patients who present to EDs to be assessed and discharged to CRS where appropriate.

5.2 Emergency department presentations

Similar to the before and after CRS reduction in hospital admissions, ED presentations showed a significant increase pre CRS at the point of the crisis episode and declined significantly following CRS support.

5.2.1 Reduced emergency department presentations

Presentation to EDs for the paired cohort increased significantly in the month prior to CRS support, and decreased significantly in the month following CRS, Figure 8. The corresponding statistical significance of monthly before and after changes are presented further below in Table 10.
Similar to the hospital admission pattern, the number of ED presentations was relatively stable in the months prior to the crisis episode at around 50 per month, an average of 12% of the cohort attending an ED. The average number of ED presentations increased significantly in the month prior to CRS, partially as a result of multiple ED attendances including 33 individuals with more than 1 presentation, and 3 consumers attending 3 times in the month. These repeat cases in the month before CRS account for 69 presentations of the total 283, 11.7% of the total.

**Table 10: Average number of ED presentations by month**

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Number of matched consumers</th>
<th>Change</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-3 to M-2</td>
<td>404</td>
<td>-0.3</td>
<td>0.345</td>
</tr>
<tr>
<td>M-2 to M-1</td>
<td>404</td>
<td>+0.58</td>
<td>0.001</td>
</tr>
<tr>
<td>M-1 to M+1</td>
<td>404</td>
<td>-0.52</td>
<td>0.001</td>
</tr>
<tr>
<td>M+1 to M+2</td>
<td>404</td>
<td>-0.07</td>
<td>0.015</td>
</tr>
<tr>
<td>M+2 to M+3</td>
<td>404</td>
<td>+0.02</td>
<td>0.503</td>
</tr>
</tbody>
</table>

**Source:** CBIS

Consumer cluster based on 3 months post CRS n=404, paired t-test on matched before and after consumers
Assumed ED presentation = 1 day.

Similar to hospital admissions presented in the previous section, ED presentations before and after CRS also reflect the reported effectiveness in avoiding ED completely, underlining that these avoided cases are not part of the CBIS actual ED activity. When ED presentations avoided are included in the before and after comparison (indicated by dotted blue line) the level of ED attendances are more significantly reduced below the pre CRS level.

The statistically significant reduction in ED attendances in the month following CRS includes 24 consumers who were admitted to hospital within 4 weeks of program support, potentially overstating the total post program ED reduction by
approximately 11% assuming the ED absence resulted from being an inpatient. Excluding this component there is a highly significant reduction in ED presentations in the months post CRS.

Average ED presentations are relatively low compared with inpatient days, showing a reduction of 0.52 presentations per month in the before and after comparison and accordingly this is a relatively minor component of hospital cost offsets as discussed in the cost effectiveness presented in Section 7.

It is recognised that presentations to EDs are often complex and diagnoses in this emergency setting may focus on physical symptoms and thus mask underlying mental health conditions, or not be classified within established definitions for reporting mental health related ED presentations. This may lead to under-reporting of the actual number of mental health related ED presentations.8

5.2.2 Avoided emergency department presentations

Clinical service staff are well placed to responsively facilitate assessment and referral to CRS services, with a stated program intention to prevent patients presenting to EDs. Similar to inpatient admissions, a significant number of CRS consumers were reported as having avoided ED as a result of CRS support, a total of 542 cases (42.7%), Table 11.

Table 11: Reported ED avoided on entry to CRS program

<table>
<thead>
<tr>
<th>Likely ED</th>
<th>Home Based Consumers</th>
<th>Residential Consumers</th>
<th>Total Consumers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n</td>
<td>%</td>
<td>n</td>
</tr>
<tr>
<td>No</td>
<td>68</td>
<td>21.6</td>
<td>134</td>
</tr>
<tr>
<td>Yes</td>
<td>110</td>
<td>34.9</td>
<td>432</td>
</tr>
<tr>
<td>Not reported</td>
<td>137</td>
<td>43.5</td>
<td>389</td>
</tr>
<tr>
<td>Total</td>
<td>315</td>
<td>100.0</td>
<td>955</td>
</tr>
</tbody>
</table>

Source: CBIS

Similar to avoiding inpatient admission, avoiding ED presentation is based on an assessment by the clinician, which includes consideration of discussion with the consumer, past history of the consumer’s utilisation of ED, and the clinician’s judgement that CRS may help avoid an ED presentation. This question is a subjective judgement by the clinician and is therefore presented as a suggestive figure. Despite this, the fact that a majority of consumers are considered to have avoided ED services suggests the program is contributing to a significant number of avoided presentations.

5.3 Community mental health services

Consistent with the before and after CRS reductions in hospital admissions and ED presentations, community health service contacts also reflect an increase leading up to the crisis episode and CRS entry, followed by a reduction following CRS support, Figure 9. All figures are based on the matched before and after consumer group as used in the inpatient and ED analyses with the number of community health service contacts shown on the left hand scale and the reported contact duration on the right hand scale.

The community contact figures are based on CBIS episode type and do not include specific details of the types of community program contact. Similarly the community contact duration is derived from episode start and end dates and does not reflect the relative intensity of the support period. For this reason the community health service contacts are presented as indicative before and after CRS figures, which are consistent with the hospital admission and ED service use patterns.

Similarly, in line with the conservative approach of the evaluation the community health service figures have not been explicitly incorporated into the preliminary cost-effectiveness analysis. The extent to which these community mental health services are reduced provides an additional source of potential cost offsets to the program and would further contribute to the program cost-effectiveness estimates as further discussed in Section 7.

Figure 9: Community health service contacts before and after CRS

Source: CBIS, (n=342)

5.4 Mental health outcomes

Mental health outcomes were assessed based on the Kessler Psychological Distress Scale (K10) which assesses the level of anxiety and depressive symptoms
a person may have experienced in the most recent four-week period. K10 scores provided a statistically significant sample of matched CRS consumers with K10 scores recorded on entry and directly after CRS support.

The K10 was generally administered on the day of CRS program entry and then on the day or within days of exit. This importantly focused the comparative change on the similarly short timeframe of CRS residential or home based support.

The K10 is scored using a five-level response scale based on the frequency of symptoms reported for each question. In most ABS and other Australian surveys, 1 is the minimum score for each item (none of the time) and 5 is the maximum score (all of the time). The sum of these scores yields a minimum possible score of 10 (all answers were ‘none of the time’) and a maximum possible score of 50 (all answers were ‘all of the time’).  

Overall CRS consumers reported a highly statistically significant improvement in total K10 scores post program, i.e. lower average score, as presented in Table 12. The reduction in mean score was higher for residential consumers with a change of –9.9 (n=428), although home based support also resulted in reduced average scores of –6.0 (n=101). Collectively for the matched cohort of 529 the overall reduction was –9.2.

| Table 12: Mean K10 scores on entry and exit of CRS program |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|                 | Number of       | CRS Entry       | CRS Exit       | Change          | 95% CI          | p-value         |
|                 | matched         |                 |                 |                 |                 |                 |
|                 | consumers       |                 |                 |                 |                 |                 |
| Residential     | 428             | 35.4            | 25.4            | –9.9            | 9.0 / 10.9       | < 0.001         |
| Home based      | 101             | 35.8            | 29.8            | –6.0            | 4.3 / 7.8        | < 0.001         |
| Total           | 529             | 35.4            | 26.2            | –9.2            | 8.4 / 10.1       | < 0.001         |
| Source: Neami program data. CI = Confidence interval |

The highly statistically changes in before and after CRS K10 scores indicates that the CRS intervention frequently improves psychological distress associated with crisis episodes, and in particular from episodes involving higher levels of distress.

In addition to the overall reduction in K10 scores, it is important to note the proportion of consumers that presented on CRS entry with severe levels of psychological distress compared to the proportion on exit, Figure 10. In order to examine the composition of levels of K10 scores, the matched before and after CRS scores were additionally grouped under categories of severe, moderate or mild distress in line with established ranges used by the Australian Bureau of Statistics

9 4817.0.55.001 - Information Paper: Use of the Kessler Psychological Distress Scale in ABS Health Surveys, Australia, 2007-08
Consumers receiving repeat CRS support episodes complete separate K10 questionnaires for each support episode.

The K10 categories indicate a high proportion, approximately three quarters, of consumers were experiencing severe levels of psychological distress on entry to the CRS program (74.9%, n=396). This was the case across both support types with 74.8% (n=320) of residential and 75.3% (n=76) of home based consumers exhibiting severe levels of psychological distress on entry to CRS. The proportion reduced significantly on exit to 32.7% (n=14) for residential and 49.5% (n=50) for home based respectively.

South Australia’s target for psychological wellbeing involves psychological distress being maintained at equal or lower levels to the Australian average for psychological distress. The trend between 2001 and 2011–12 indicates an improvement in South Australia from 14.1% to 11.4% of the population experiencing high levels of psychological distress. This compares nationally over the same period with an improvement from 12.6% to 10.8%. Although statistical limitations with the national data set prevent conclusive comparisons between South Australian and Australian rates of psychological distress, programs which support reduced levels, including the CRS program, are contributing to achieving and then sustaining this strategic target.

Figure 10: K10 level of severity on entry and exit of CRS program

Source: Neami Carelink program data. N=529

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5.5 Relapse duration analysis

Relapse duration analysis examines the timing of relapse of CRS consumers post program, for example either as an inpatient admission or presenting to an ED\textsuperscript{11}.

Given the relatively short 7 day CRS support timeframe, potential program outcomes beyond 3 months post support are considered outside the timeframe of the crisis episode for which the CRS referral was made and are not examined in the analysis. Based on the assessed 3 months following CRS both hospital readmissions and repeat ED presentations remain at relatively stable pre CRS levels.

\textsuperscript{11} Due to consumer program entry and exit dates, the available consumer follow-up period varies and is limited with a characteristic resulting issue of right censoring, where insufficient post CRS duration is available to sufficiently assess program outcomes. The duration analysis framework has been used to define a post CRS program cohort in which all consumers have completed a full 3 months since exiting the program. This manages the potential right censoring issue and provides a sufficient consumer cluster of paired before and after data for 6 months prior and 3 months following CRS. The analyses focus on the before and after CRS framework and further comparative duration analysis was not possible given the small sample size obtained from the target country comparison group.
6 Consumers and carers

The researchers conducted a total of 14 interviews with consumers of the CRS program and their carers. Interview participants had experienced home-based or residential CRS care. Some of these consumers were current CRS consumers, while others had recently exited the program. Interview participants were asked to explain the broad circumstances of how they became involved with CRS and other details of their stay such as how long they had used the service, the nature of the supports they had been receiving, and how effective they thought the service had been.

6.1 Overview of support provided by crisis respite services

Most of the interview participants had come to CRS straight from hospital. For several of these participants, this was not their first stay with CRS, and some of these consumers described how CRS had become part of their “routine” when experiencing or recovering from mental health issues. The majority of participants reported staying with the service for the full 7-day period, with some consumers extending this period within the residential accommodation (usually only for 2 or 3 days), or by adding a period of home-based respite at the end of the residential stay (usually another 7 days).

Some interview participants explained the reasons that they had been referred to CRS. Some had experienced some form of breakdown, while others mentioned drug and alcohol-related reasons. Others commented that they had come to CRS to achieve some stability, routine or normality in their life. A few participants mentioned that they came to CRS to ease the process of changing or beginning a new medication.

CRS staff members provided a range of services to the interview participants. Most commented that they were given their own space, time alone if they wanted it, including sleeping when they wanted to, and help to make and eat healthy food.

I was given space to rest and get myself ready to be open and active.

It gave me the opportunity to be away from the children and get some space so I could go home comfortably to look after the children, without a 2 or 4 or 8 week hospital stay.

It was good to be taken away from an environment where I was anxious and out of control, to one where none of those things mattered.

Beyond these basic forms of respite, interview participants said that they had also received mental health support and counselling, medical support from GPs, domestic violence support, as well as assistance from CRS staff with practical
matters such as housing and furniture acquisition, dealing with Centrelink and identification issuers, banking, and connections to community organisations.

Interview participants described their overall experience with CRS:

It gave me the opportunity to get back on my feet and options, and an idea of how to help myself when I was feeling low.

I had an interview when I came in to assess me, then I was free to chat with staff members that were available. There were also some support staff that would ask how I was going. And then within a couple of days I was interviewed again to see how I was traveling and the type of support that was required. First couple of days I stayed in my room, but after that there was no pressure or anything, there was a natural progression to manoeuvre through the place in terms of social interaction.

I was homeless when I arrived so I needed help finding somewhere to live. I’d come out of a complete breakdown in every part of my life so it was a good place to decompress; and the staff were nice and you could talk to them and relate to them. Mine was a breakdown everywhere and it was good to just get away from it.

My life had become chaotic and I was living every day hoping it was my last day. So they helped me feel that I was worth something and I did have reasons to live. I had isolated myself at home. They took me out here after dinner for walks to get into the habit of getting out and walking around. Eating as well – I wasn’t eating. I was suicidal at the time. They helped me with my medications and to have rest and a respite and proper nutrition.

Overall, interview participants were very positive about the support they had received.

It’s been excellent. There are counsellors here 24/7, that’s the best thing. Whenever you need it.

You can’t really ask for anything more.

Fantastic.

It’s been awesome. It’s the right type, right intensity. Is exactly what I needed.

This round it has helped majorly. They helped to give me another perspective from the outside.

[CRS staff] can help guide me into a situation when I leave that is more planned and structured than my usual approach.

6.2 High quality support

Interview participants discussed how well the support they had received at CRS had met their needs in terms of factors such as the intensity, frequency and length of the
support. Several interview participants commented on the CRS staff themselves, noting in particular that they were friendly, helpful, approachable, and non-judgemental.

You could go to them with anything and everything. If you wanted to cry you could cry and they’d just sit and listen and help as much as they could.

They provide a lot of good services and they interact with people, they’re polite, they make you feel welcome, and at the same time give you the help that you need.

It just feels like a family here. Because when you don’t have any self-worth they tell you that you have.

It’s like having about 8 mums.

The environment and setting made the staff a lot more approachable, they weren’t locked away in a little room, you could always talk to them, ask about when dinner would be made, etcetera. Being able to ask about that stuff was great and they weren’t locked away in meetings.

Just chatting and being asked how I am – it feels genuine, and they’re here to really help people. Which is ideal.

The fact that there’s no judgement: people will stop their work to talk to you. That doesn’t happen in hospitals, their work comes first. At CRS the consumer comes first.

Interview participants also mentioned that CRS staff had provided good support to them with regard to practical matters. Most importantly, CRS staff addressed consumers’ needs relating to housing, and to helping to provide structure to their lives.

Like with my dyslexia and reading and writing, they said they could help me fill out forms and stuff on my behalf, which was good. They were looking into things like mentors for me. They told him there are jobs out there for people like me, which picked me up, made me feel happy. I could see them actually doing something to help me.

Getting back in a daily routine was the biggest help for me. One of the [CRS] workers suggested a daily planner for me so they created that and it was really helpful, and now it’s on my fridge at home.

They came every day for a week when I was at home [in home-based care]. And they helped me with shopping and took me to the beach, different things that I needed. I liked having the company.

CRS find a lot of the people you need to see, and contact people for you. They’re very helpful. And they actually helped me with my super and everything, and even helped me get a payout because I can’t work anymore. Can’t thank them enough for that.
There’s a list of boarding houses they offered me here and I was able to access them and will transition to there after here. I’ve never been offered that before.

I don’t know a lot of services like Housing SA so I’ll be sorting all that out with them. They’ll accompany me and advocate on my behalf. Housing will be the big one for me, the independence side of things.

Interview participants spoke about the way that CRS staff “helped them to help themselves” to succeed independently, for example by helping to devise plans and structures for their lives or strategies for coping with their mental health condition, and stepping in to assist when necessary while also being trusted to tackle their own issues.

At CRS they let me see my own doctors who understand my condition. In hospital they use their own internal doctors and change all my medication, so I come out and have to start all that again. In CRS they don’t do that so I don’t have to go through that whole process – and they trust me enough to give myself my own meds, so I really appreciate that trust.

You could ask for someone to fix your own life, but when it comes down to it you need clean, safe housing, someone to not baby you but to support you with things you do need – someone can’t just “fix” everything.

The space is important, also positive encouragement, being active in my own exit plan – they want to involve you and not just give you a number and leave you to it.

A carer also reiterated this point.

I probably changed the way that I emotionally support her. From taking charge of the situation, to more encouraging her to take charge of the situation. That was borne out of the philosophies that they espouse here at CRS; for example the clients prepare their own food, clean the place, look after themselves. They’re under supervision and have a safe shelter but it’s really about taking charge of your life and what it’s going to be like when you’re not in care.

Some interview participants also reflected on how the support they had received through CRS had differed from support they had received in the past through other services or practitioners.

[A psychologist] was just one hour a week and that was it. They’d give you things to try but then leave it to you. Here they’re always there for you.

[Area] Mental Health is not as good as CRS – they distance themselves from the client. CRS they take a lot of care in what they do. [Area] Mental Health, you’re just a number and this is just a process you have to go through. It’s the little personal touches. They just go through the motions. Or you ring them up and they don’t get back to you. At CRS it’s a different model.

I have rapid cycling bipolar, which can be hard for hospitals to understand that I need a long stay. So CRS means I can say to them that I might be up
and down but it’s due to the rapid cycling bipolar, but in hospitals they don’t like to be told things like that.

I had clinical treatment for depression about 7 years ago, but that [treatment] was primarily clinical, antidepressants...[CRS] was a lot more subtle in that it takes you away from areas where I felt anxious and put into an area where I didn’t feel any pressure at all. That in itself was a great thing

Interview participants described the CRS staff as very proactive and helpful in assisting them to connect with a range of external services, including other mental health and medical services, accommodation services, government services such as Centrelink, and community groups. This assistance usually consisted of calling these services on the consumer’s behalf or taking the consumer to the service in person.

Finally, a few interview participants said that they didn’t think that 7 days was a long enough period of support for them. Having said this, it appeared to be reasonably common practice to extend stays or to offer an additional period of home-based support to consumers where possible.

A carer of a person with a mental health condition made the point that CRS provided respite not just for the consumer, but for family as well.

It provided the required support at the time, not just for her but for other people around her. She needed somewhere where she could be supervised safely. For people around her they needed the respite from having to provide care for her.

6.3 Support-oriented recovery

The researchers asked the interview participants whether they felt that the support they had received at CRS was oriented to recovery. Interview participants conceived of the notion of “recovery” in various ways. For some of these CRS consumers, mental health recovery was thought of as something that was secondary to, or the result of, achieving stability in one’s life, and not necessarily the only or main goal of their treatment. Although it would be fair to say that some level of mental health recovery is required before practical matters can be effectively attended to.

Just getting back on my feet. Getting back into a routine and planning things like meals makes things easier.

My goal is to stay well, physically and mentally. Having the daily routine and getting centred, and to reinforce some strategies I’d learnt in the past from a counsellor, being able to pull out the right tool. Whether that be acceptance therapy or mindfulness.

Life recovery. Getting up on your feet. Whether you’ve lost your children or whatever you’re going through because of a mental illness, whatever your life is like because of that, they’re just trying to help – your depression, your anxiety, your drug abuse, etc. people who have a mental issue need support.
Other interview participants saw the purpose of CRS as providing immediate respite so they could recover from a crisis point in their lives, and then go on to reassess, restart and move away from the “brink” of that crisis.

I don’t want to feel the way I’m feeling. I want to stop that. It’s a little bit better. I would describe it as “stabilisation”, because I know I could go back to it.

To have a reason for living. A purpose. To get my life back into something meaningful every day.

My endpoint was to feel that I was capable of being able to move forward and take control of the things I needed to take control of. And understanding why those things needed to be put in place was critical too.

There were a few specific points that had got completely out of control – drinking, home life, business life was stressing home to the point of not sleeping... so basically decompressing.

For some interview participants, their focus was on taking an important first step that they felt was a prerequisite to achieving a “recovery”.

The goal is …I have to go to court, so to get [to CRS] and then to that stage and past if I have to, if need be. So that’s given me food for thought, so now I’m thinking long term instead of just short term.

The goal of CRS is to keep me from needing hospital care. To give me the time out I need without having to have a hospital stay. Sometimes people end up in hospital who don’t need to be there, they just need a time out. A lot of people have long term mental illness and they just need respite not a hospital.

I just wanted to get stronger and come back home and live on my own. My mum died and I had been in a sort of caring role for her and living with her.

6.4 Effectiveness in different areas of life

In order to discern the areas in which CRS has had the most effect, interview participants were asked to comment on specific parts of their lives and the degree to which CRS has helped in those areas.

6.4.1 Improving mental health

Interview participants generally felt that CRS had had a positive effect on their mental health and their ability to get back to “normal”; although some acknowledged that it may be too soon to say whether these effects would last beyond the short-term.

I felt absolutely fantastic when I got home. I felt like a different person.
I feel a lot stronger. It’s down to slowly fixing some of the things that were a roadblock – when every path you go to take there’s a block because you’ve lost your bankcard, or whatever, small minor things, but they all add up and it’s like your life is over.

It’s short-term, [but] mental health is a long term issue. Short-term it couldn’t have been better. [CRS staff will] see me outside of here as well. Short-term I’ve had people to talk to that understand to help me get through. Without this I would’ve been in a mental hospital for sure. So I’ve been diverted from that path.

Participants felt that the particularly useful aspects of CRS in terms of improving their mental health were the opportunity it provided for a break and respite, and the fact that it provided treatment that focused on equipping consumers with strategies to address their mental health issues rather than simply focusing on medication, as many had experienced in hospitals or other mental health treatment facilities.

These people here at CRS help you find strategies to cope with things instead of relying on the drugs they give you to make you feel relaxed and normal and happy and make you feel like a zombie. This mob here give you coping skills so you don’t have to rely on drugs. You keep your mind occupied working out strategies by painting, doing puzzles, meditation.

Just to get back into the daily routine and reinforce the techniques that you can use on a daily basis. It’s not something they show you once off, you can apply it to your life every day. It’s a life skill.

[It has improved my mental health] drastically. Going through mental health wards they want to give you drugs – I haven’t had any drugs here. No medication. And I feel so much better already. It is in the true sense a respite.

I haven’t had to go to hospital for nearly a year. It’s just been that break that I’ve needed. I don’t need to go to hospital every time I become unwell. As I get older I’m better at regrouping, and CRS provides that opportunity.

### 6.4.2 Increasing capacity to live independently

The majority of interview participants said that the support they had received from CRS increased their capacity to live independently. For some participants, this was because CRS had helped them to organise practical matters such as daily planning and engagement with services.

To be able to have a normal daily life without feeling depressed all the time… If I can stick with my daily planner everything flows from there. For example, I have a job interview on Friday that I wouldn’t have been in a position to tackle if I hadn’t been able to plan my approach.

Just coping with different things. They helped me out with bills and stuff like that. Setting up direct debits for me. Stuff like that. And coping with everyday life.
I think I’ve always had that capacity – I’ve been looking after myself since I was 15-16 - but what it has done is reiterated the want for me to be by myself without being distracted by other influences or situations.

Two interview participants said that CRS had helped to stabilise their substance misuse, which in turn increased their ability to live independently.

Since being here it’s reminded me of how I can live and how I used to live.

The drinking is now probably a tenth of what it was. I can see a future without being in a rehab or anything.

Another two participants commented that CRS provided a bridge between living in a hospital and living independently by providing the skills and strategies to do so.

One consumer said that she still wasn’t sure if she was ready to live independently because of the severity of her mental health condition, and another said that she would have appreciated some more follow up from CRS staff after she had left to assist her in living independently.

So you feel like you’re back out in the world on your own. Something like a courtesy call a couple of days after you leave to check in would be good.

Another consumer had moved into boarding house accommodation after his stint at CRS and had set a goal of living completely independently within two years.

### 6.4.3 Participating in community life

Again, interview participants had a range of definitions of what constituted “community life”. For some participants, CRS had helped them to simply leave the house to undertake activities in the community such as going for a walk, or going to the shops or local library.

I went for a walk to the shops yesterday, which I haven’t done for so long – I wasn’t strong enough mentally and physically.

Some participants saw CRS residential care as a community in itself, with social interactions between staff and consumers. For some, this form of community participation may have been greater than they usually experienced.

For other participants, CRS staff had actively helped them connect with external, formalised community activities, such as community gardens, netball, a crochet club, swimming, arts and crafts, men’s sheds, and community centres and hubs.

They helped me find out about groups and phone numbers which I didn’t know about before, things like community gardens.
Some participants hadn’t required assistance to engage with formalised community activities but did note that they had reengaged with friends and social activities after their mental health had improved following their treatment at CRS.

Finally, a few participants felt that CRS had helped to prepare them to re-enter community life, but that they weren’t quite ready to do so yet; although some had started to make plans to do so.

### 6.4.4 Improving quality of life

Interview participants strongly argued that the support they had received from CRS had improved their quality of life, and many of these participants attributed this improvement directly to the staff themselves and particular aspects of the nature of the treatment at CRS such as the focus on helping consumers to help themselves.

Participants spoke of their crises having abated, allowing them to return to “normality” and routine, and often remarked on the turnaround they had experienced in their lives.

In my head that big dark shadow – they call it depression – it’s just not as dark. And I’m more open. When I feel like everything’s crap I tend to close off and don’t want to talk and don’t want to answer questions. Now it’s not as stressful – there is an answer for questions again.

They picked me up from the bottom and put me right up there – like this is not the end of the track. Stuff goes on but you have got to cope with it and find different ways and you’re the only one that can do that, they can just advise you how. It’s saying yes it’s up to you to do it. They plant it into you to make you feel like there is some good in you. They make you feel like...they don’t say “we can take the pain away from you”, because they say you’re the only one that can do it, so they make you realise that yes you can do it. They don’t just give you your happy tablets and then go away.

It’s given me hope. And self-worth. They don’t judge you. They know everything, they know the whole deal and they don’t judge you on it, they just support you.

From where I was last week to this, my quality of life is a complete turnaround. I was having suicidal thoughts and depression and not wanting to be part of anything. To have the positive atmosphere [at CRS] has let me know it isn’t all over and these positive people can help me help myself.

Ultimately it is probably the single most impactful thing I’ve had in regards to getting back on track from a personal perspective. This feels like more of an emotional support, coming from a different angle. It’s impacted so much I’ve started doing a Cert IV mental health course.

I’m eating properly and cooking and being healthy, so that physical aspect as well as mental, and the daily routine – all steps you in the right direction. They’re all good guidelines to move forward.
80% increase easily. At least I wake up, have my shower, get dressed. Before I wore the same trackies every day.

A carer said that CRS had had a significant effect on the ability of the person that he cares for to self-direct their own care.

I’ve noticed that she’s now standing up for herself more, she’s become quite stubborn when she believes in something or doesn’t agree with somebody. So her whole character has changed to become quite stubborn. In life in general. She’s listening all the time, she’s understanding everything. She’s letting people know that if she doesn’t agree or wants more information… it’s a significant change to her. She always used to be very passive. She’s now an active participant. She’s still on medication and probably will be for a long time but it’s a minimal amount considering how much she was on at the start. She’s been able to articulate very clearly with the doctors about what she believes is working and isn’t working, so that’s been part of her taking charge too. And they’ve listened to it.

6.4.5 Achieving stable housing

The majority of participants were already in stable housing so for them the question was not relevant.

For those participants who were not in stable housing, two said they were still looking for accommodation (with the help of CRS staff), so it was too soon to say whether they would achieve stable housing. One participant had been living in his car before entering CRS and had gone on to find accommodation, although he described this accommodation as “not the most stable”. Another participant had been experiencing domestic violence at home so had applied, with the help of staff members, for temporary emergency accommodation and had been accepted into what she described as a boarding house.

6.4.6 Reducing frequency and severity of crises

Some interview participants had a mental health condition that led to frequent crises (and therefore frequent visits to hospital or use of emergency services), while other participants had experienced what they thought of as a “one-off” crisis or breakdown. The former group spoke about CRS providing them with strategies and skills that would, they hoped, reduce the frequency and severity of their crises, or provide a diversion from hospitalisation or emergency care.

If this wasn’t here I would’ve been in a ward being forcefully made to take medication I don’t wanna take.

It’s given me time to think because I’m not in the situation anymore. So you’re standing outside the square looking in.

One member of this group was worried about what might happen when he left CRS and was “on his own”:
It has [reduced the frequency and severity of the crises] to a certain extent because during the 7 days [in CRS care] it stops – but then there’s no more contact, it’s pretty daunting. They fit a fair bit in in 7 days, but then you’re on your own. It would be good if they could do follow ups and stuff like that.

Those participants who had experienced what they saw as a one-off crisis generally felt that the support they had received in CRS would prevent or significantly decrease the likelihood of future crises.

This diversity of experience should be taken into account when interpreting the quantitative findings on reductions of ED visits and hospital stays. If consumers had not had hospital admissions or ED visits in the months prior to their spell in CRS then they could not be classified as having reduced their hospital attendance. However the interviews with customers and families confirm that CRS has helped them avoid further in patient care and has in addition supported a number of less quantifiable outcomes for participants.

6.4.7 Increasing confidence in ability to reach goals (self-efficacy)

Interview participants spoke very positively about the increase in their ability to reach their goals, often attributing their greater self-efficacy, confidence and self-worth to encouragement from CRS staff members, and access to information through CRS.

They just lift you up. You can do anything you want, as long as you wanna do it. Nothing’s too hard.

In terms of giving you confidence, you realise you’re not a worthless idiot and do have something to contribute to the world.

You think that you can do it now where before I didn’t want to do it and didn’t think I could.

A couple of interview participants also noted that whereas hospitals or other services may focus on assisting consumers through the use of medication, CRS takes a more holistic approach by encouraging consumers to achieve self-efficacy by equipping them with skills and strategies to help reduce their need for additional or unnecessary medication.

6.5 Building on the strengths of the program

The researchers asked the interview participants what they liked and disliked about CRS. As many were unable to name anything they actively disliked, these participants were asked instead to name those aspects of the programs that could be improved. The aspects which consumers most liked about CRS fell into several broad groupings:

- the independence and freedom offered by CRS;
• privacy;
• the surroundings and environment;
• staff; and
• the non-clinical nature of the service.

Many interview participants commented on the freedom and independence that were afforded to them in CRS residential care.

You’re very independent here and can do your own thing. You can look like a dag and not worry what people say. People sense the comfort. They don’t keep you confined – you can go to the shops.

They’re not on your back, they’re not following you around and checking your bags – you’re pretty independent.

You felt you still had your freedom, you weren’t incarcerated.

In association with freedom and independence, interview participants also commented on the privacy they were offered during their residential stay. It was important for consumers to have their own rooms and to be able to feel that they could stay in their room and not be bothered, but also that they had the option of being social with other residents and staff if and when they desired.

I like the privacy, the fact that if we don’t want to come out of our room we don’t have to. I like that there is a communal area for people who do want to be social.

I had privacy if I wanted it but if I needed it, someone to talk to.

They respected your privacy and your time. The sharing of meals was really important too. It gave you the opportunity to socialise with staff and other clients.

Interview participants also praised the setting and environment of the residential accommodation, particularly in the northern and southern facilities.

The houses are beautiful. I like everything. I like being here – it’s nice, it’s white, it’s clean, it’s open, it’s airy, it’s light.

A carer noted the difference between the atmosphere at the Central Highgate facility and the Southern facility.

He’s been through it twice - once was when they were at Highgate, but since they’ve moved into the new place they’ve completely changed. It’s much better now. It’s better set out, not all clumped together, in 4 or 5 different houses. Parents can go in and visit now.

CRS staff members were also praised for their accessibility, approachability, and the quality of the support that they offered.

The staff were very nice. They were very helpful and very friendly.
Whoever is hiring these staff are absolutely brilliant because each staff member is not like a robot, they've got their own quality of helping you in different ways. So this person helps you with your confidence, this person helps you finding out with medication, and they complement each other beautifully. They were like family.

It was always great that anytime you asked for something they’d drop what they’re doing even if they’re in the middle of something. So eager to put you number one. You never felt like you were bothering them.

When it comes to down to a particular issue of mental health, there are people who you feel that you can’t go to for an intangible reason, but here you felt like everybody wanted to assist.

Many of these positives were described in contrast with conditions in hospitals or other clinical settings.

It’s much better than a hospital. In a hospital you don’t sleep or have much freedom. Here [at CRS] you can shower, put on your own clothes, walk outside, do normal everyday things you used to do.

I liked the idea of privacy – in hospital there isn’t much privacy, they might lock you out of you room, restrict your medication. So you couldn’t have afternoon naps, for example.

It’s excellent that [CRS] exists. It’s better than being medicated and put in a ward. Sometimes people just need a few days to relax in a social environment.

I helped cook the dinners, did some craft, watched a movie with one of the workers, and was able to talk with the worker in that setting, which was better than in a clinical setting.

One participant felt that the service should last for longer than 7 days or that there should be some kind of follow-up after the 7 days “instead of just cutting you off - then something else comes in that undoes what they’re doing”.

One participant said that he hadn’t received adequate support from an external social worker who had failed to follow up on some issues with which he had promised to assist.

Another participant made the point that it was hard to know which staff member was which, and what their given roles were.

Nobody wears badges, which is fine, but there’s no signs or pictures of staff. People come and go and you don’t know who’s who and what their position is… when you’re in crisis you need to know who’s who so you feel safe and secure. Maybe could put up a board with “today we have person x, y” and their pictures, and what their qualifications and positions are, and who’s in charge.
One of the participants felt that she would have benefitted from having more things to do and a more structured timetable of activities.

There’s nothing to do. You need more structure to your days – I know it’s respite but you need someone organising things.

One participant said she would have liked to have had access to a private computer; she only had access to a computer in the staff office where staff members could watch over her as she used it.

Two interview participants noted that the bathrooms had run out of items such as soap, toilet paper and clean towels, and one said that his room was too small.

### 6.6 Suggested changes to the program

Interview participants were asked what they would change about the CRS program. Four participants said that the program should be longer than 7 days, with one suggesting that 2 weeks would be ideal. A carer agreed that a two week stay would have provided the person he cares for a better chance to find accommodation after he left CRS.

One participant suggested that CRS employ an onsite doctor so that consumers didn’t have to see an external doctor.

If you’re coming off drugs it would be a lot easier if they could medicate, or have an onsite doctor or nurse someone like that. Would save you having to go externally. Even people who need tablets… you’re coming off the streets and you won’t necessarily have your scripts.

A few participants suggested providing more activities in the residential accommodation such as exercise equipment, or a games room.

If you don’t like TV, there’s not much else on offer.

Two participants thought that there was a lack of space in the residential accommodation, one saying the bedrooms are too small, and another saying that the individual units can be quite tight when they are full.

There were three people in the unit I was staying in. It was a bit tight. It can impinge on privacy. They asked if it was ok and I didn’t really wanna say no because someone else may have missed out on help.

Some other, minor suggestions were that the cupboards and drawers should be labelled so things are easier to find, and that an intercom system would be useful for consumers to communicate with staff.
6.7 Other comments

Finally, interview participants were given the opportunity to provide any additional general thoughts they had about the program. Almost all of the participants wanted to praise the service, with comments that it was “fabulous”, “a great idea”, “fantastic”, and “a good service”.

Can’t really ask for much more in any area. I felt like I was at the bottom of the bottomless pit the other day, and to have CRS like this, I can’t see how people could have a problem with it if they’re being honest and real.

It’s a great opportunity for people to be able to feel like they’ve got an instant support network that’s non-judgemental.

I don’t think that people pay enough credence to CRS. It’s being underused. There are people who are in hospital who really only need a little bit of respite.

Several participants mentioned that they wished they’d heard of CRS earlier.

I think it’s been fantastic and I wish I’d known about it earlier so I could’ve been through this earlier, because I’ve been to hospital numerous times and it’s the first time I’ve heard of it.

I would like to say that I’ve worked in pharmacies, nursing homes, I’ve been a carer with disabled and aged people…I didn’t realise that there was a place like this available and how great this sort of place is to have.

Again, some participants noted the contrast between CRS and other services such as hospitals.

It’s like a home away from home, where you don’t want to be classed as a nutcase, not like a hospital… I was absolutely gobsmacked.

[Northern Mental Health] do more harm than good. They just give you tablets.

One consumer made a negative comment about one of the staff members.

There was one [staff member] here that was a bit of a bully. I hated it when she was on, I felt like she didn’t like me, and I stumbled and stuttered with her. I saw her treat other people the same. I saw her roll her eyes at someone here, so I thought ‘oh it’s not just me’. Every day I wake up and hope she’s not on.
7 Governance, service model, and relationships

The researchers spoke to 10 staff and stakeholders of the CRS program. These stakeholders came from SA Health and Neami, and included members of the Crisis Respite Project Control Group, LHN staff members, and CRS managers. The stakeholders held a range of positions, from purely advisory and governance roles, to regional management, to day-to-day program management and service delivery.

Most of these stakeholders had been involved with CRS either before it officially commenced, with some having held positions on the joint governance committee that oversaw the program’s implementation, while others took up their positions soon after the program began.

7.1 Overall aims of CRS

Stakeholders saw the primary aims of CRS as diverting consumers from hospitals, emergency departments or other forms of acute or clinical care, and providing “recovery-based” environmental respite and psychosocial support.

If we can support people to develop skills to avoid hospital and connect them with services which are going to provide them with a level of care that reduces the impact of their mental health issues, then we’ve done their job.

In a way, it’s a chance for them to get a break from their day to day life and some support around specific goals that generally relate quite directly to whatever the crisis was related to.

The role of CRS is to provide consumers with a space to take time out and recoup when there are stressors which are having an impact on their ability to function, on their mental health; to support that individual to work through the stressors that lead to their presentation so they leave the service with a sense of hope and a plan that they feel confident in executing.

The aim is for people to be comfortable to manage a psychosocial situation rather than going into acute care where we know people don’t do so well.

[The aim of CRS is] to stop the queues at hospital.

7.2 Meeting the needs of consumers

The majority of stakeholders said that CRS had met the needs of consumers well.

If you look at the criteria behind it, it’s doing what it should.

Better than expected. It’s phenomenal and the feedback has been great.

Several stakeholders cited entry and exit data (such as the K10 scale) that they said showed that CRS was meeting consumers’ needs.
[The data] overwhelmingly show that people are coming in with high levels of stress and leaving with low levels or normal functioning. We also do an exit survey with consumers and overwhelmingly we’re being told that they’re very satisfied or satisfied with the service.

From their exit questionnaire, you’ll always get complaints, but most of the people are very grateful.

Looking at psychological distress reports before and after, it’s doing a critical job.

Stakeholders gave a range of reasons for why they felt why the program met consumers’ needs, including that CRS was effective at addressing the short term needs of consumers while also helping them to work on a long term support plan, that consumers’ crises are often “situationally driven” and as such are better addressed in CRS than in a hospital or acute care, and that consumers feel listened to and validated. Another key element is that the support is driven by the consumers themselves in a self-directed model. One stakeholder also pointed out that CRS meets the needs of carers by offering them respite.

Several stakeholders said that CRS was more suited to certain types of consumers than others. This was due in some cases to the nature of shared, residential accommodation: for example residential accommodation might not be appropriate for people who display inappropriate behaviours, schizophrenia or paranoid behaviours. Some stakeholders noted that young people had formed a significant part of the CRS population and that CRS had proven to be effective for young people. One stakeholder was surprised at how many homeless consumers had entered the program, and one stakeholder said that CRS was particularly suitable for women fleeing DV.

Having a week to find somewhere and make a decision about their life is very important.

Various stakeholders commented on the fact that CRS had not attracted many CALD or Aboriginal and Torres Strait Islander consumers. However, one stakeholder said that the program had met its targets for Aboriginal and Torres Strait Islander consumers. Section 4.1 contains actual program demographic data. Another stakeholder offered theories for why Aboriginal and Torres Strait Islander and CALD consumers were underrepresented.

We don’t see a lot of Indigenous or CALD, possibly because they have a large support group and services available.

Some stakeholders suggested that CRS could cater more appropriately for Indigenous consumers by working with Indigenous advisors, linking with Indigenous services, or employing Indigenous staff.
7.3 Providing residential and home-based respite services

Stakeholders explained that CRS was originally designed only to provide residential-based support but later expanded to also offer home-based support. This change was carried out in the interest of offering both options to consumers based on their need or personal preference. Most stakeholders saw advantages to offering both residential- and home-based support depending on the nature and needs of the consumer. Home-based care was associated with stability and flexibility (especially if the consumer has family at home), and could also be offered as an additional period of support after the consumer exited residential care. However some stakeholders felt that home-based support could be detrimental in some cases due to “environmental risk”.

In residential settings, clients could focus more on themselves without needing to manage environment around them. In home support, if the environment causes stress it may not be as effective or bring about as much of an improvement.

There is a real benefit in getting people out of their current environment and into residential.

Residential really works for a group of people who absolutely need to get out of their usual environment to take a breath and work on what they need to, and also to act as an alternative to hospital.

7.4 Referrals between SA Health and Neami

Stakeholders were asked to comment on the effectiveness of the CRS referral process. Most thought that the process had been working well, despite some minor issues, predominantly at the inception of the program. Most of these issues were seen as the inevitable outcome of having a two-step referral process involving both SA Health and Neami.

Clearly a single-system approach would streamline processes.

The current model requires access through triage making accessibility more difficult, having to go through several referral points.

However, none of the stakeholders saw the need to have both parties involved as being detrimental to the referral process.

The referral system is pretty exhaustive with multiple contacts to assess and refer a consumer.

There is clinical accountability either way. A doctor is always held responsible either way.

There is no ‘them and us’ feeling.
Two stakeholders pointed out the effectiveness of Neami’s “‘yes’ approach” whereby there were as few steps as possible from the consumer’s presentation in distress, to referral and then acceptance in CRS.

Neami have worked hard to engage a “yes” approach with quick responses to clinical teams and an openness to working through issues.

Other minor issues highlighted by stakeholders are detailed below.

Referrals have been working well but could be streamlined a little. The hospitals sometimes need reminders or education about who they should be referring. Sometimes clients get stuck in the system without being “flagged” as a referral, but not too often.

We’ve hardly received any referrals from the country, despite them being resourced with a couple of CRS positions.

It’s taken 18 months to get CRS embedded in people’s thinking and in the system.

7.5 Greatest areas of impact

The majority of stakeholders felt that CRS has had the greatest impact in consumers’ lives in the areas of housing and accommodation, and personal relationships. CRS consumers often require support to achieve or maintain stable housing. CRS has played a significant role in assisting consumers to, for example, engage with Housing SA or providers of short term accommodation such as Catherine House. CRS’ consumers may not have the necessary support from family or the community to maintain accommodation, or may have undergone a situational or relationship crisis which led to them require alternative accommodation.

Relationship crises, including family conflicts (often related to the individual’s mental health conditions), domestic violence, relationship breakdowns, and dysfunctional households, are another form of crisis for which stakeholders said that CRS was particularly well suited. CRS has been able to provide counselling and mediation services for consumers experiencing these issues.

Several stakeholders mentioned that CRS has the greatest impact where people have undergone a temporary, often situational crisis, for which they need short term respite.

CRS provides general practical support like when people find themselves frozen in life, someone can insert themselves and sit there with you and help them through. People often need to share that level of pressure just for a week. Some people need to just come here and do nothing and have respite from themselves.

Where something has happened that’s had a big impact or been one step too far and they need help recovering quickly.
Some stakeholders argued that CRS is equally suited to individuals experiencing short term crises, and those who experience longer term conditions that may flare up in the form of occasional crises. For the latter, CRS can provide a more appropriate form of support than a hospital stay.

The program is adequate enough to deal with both spectrums of more and less severe mental illness. That may mean shorter stays in CRS for those with borderline personality disorder is better than entering acute services, for example.

People who have ongoing issues might feel more confident talking with doctors at CRS because they don’t get scared they might have to go to hospital. CRS also helps with continuity of treatment for people like that – they don’t have to worry about getting medication regimes all over again in hospital, so that all has a massive impact on people’s overall wellbeing. So it works well for a diverse group of people.

### 7.6 Issues affecting the program

Stakeholders named a range of issues that had affected the CRS program. One of the biggest concerns expressed by stakeholders was the difficulty that staff had finding suitable rental accommodation for the residential service. Some stakeholders pointed out that CRS was initially developed without any existing properties or council approval to set up new properties as residential accommodation. Additionally, the short, five-week project implementation period did not provide adequate time to obtain the council approval (which in practice took 6-12 months). For some stakeholders, the lack of suitable rental accommodation was one of the main reasons that the implementation of CRS had been slower than expected.

We had to start in a temporary location and waited 9 months for council approval, and then one site didn’t get approval.

Local council bylaws can be problematic in attempting to use rental accommodation for the purposes we had in mind.

Purpose built houses would’ve been nice, rather than just houses that were available. Forward planning on that aspect would’ve helped. You could improve the level of service if you have purpose built houses. It can be very cosy, for example, when we have a full load and full staff. Private meeting rooms would’ve been good too.

It was a miracle things got off the ground. For system design to be implemented, it takes time – 8-12 months – which CRS didn’t have. If you rush to implement something it’ll do more harm than good.

There was a very short implementation period – 5 or 6 weeks to establish beds, empty beds; everything to get a service up and running – due to property issues and the time it takes to embed a new service type into a system. That has a big impact in a service with such a short timeframe anyway.
The effect of these delays on the number of consumers using the program is addressed in Section 4.2.

Two stakeholders also questioned whether Highgate House was the most appropriate facility in which to accommodate CRS consumers in the Central LHN.

However stakeholders generally felt that the program had been able to overcome these implementations delays.

Now that they’re up and running they’re really getting into the swing of things. It took a while to sort it all out but it’s all good now.

Some stakeholders mentioned the negative effect that funding uncertainty had had on the delivery of the program.

There’s been no assurance of any further funding. So we haven’t had that confidence that it’s something that will be around for the long term – why would you refer consumers to it, and why would it become an embedded part of the system [without that assurance]?

The sustainability question…it’s indirectly setting us up for failure because we were set up with additional staff but cannot maintain them. In future, they should look at assisting existing project staff with funding rather than adding totally new staff then pulling that funding out.

Several stakeholders commented on the challenges they had encountered in simultaneously supporting consumers with a range of conditions or behaviours, as well as those experiencing both long and short term conditions.

CRS doesn’t deal as much with those with longer term needs, which is one limitation of having a 2-year program. It’s difficult to determine who the program is most effective for. Higher management is required for riskier situations or those consumers who are more volatile, for example with personality disorders.

If you have 2 or 3 consumers with a similar type of personality construct in at one time, and say an antisocial male, it can be chaos. We can veto a person if we think a mix of clients won’t work but we don’t have the right of veto on a clinical basis.

One stakeholder commented on the difficulty of dealing with consumers with substance misuse issues, particularly the drug ice, because of the specific behaviours that they may display. They noted that their staff weren’t necessarily adequately trained to deal with these behaviours.

Two stakeholders mentioned the trouble that CRS had had in determining the optimum number of beds to offer at each facility. Fewer consumers can make it easier to get the right “balance” of individuals at any one time. One stakeholder said that it might’ve been better to have had offered fewer beds per location (6, for
example) to have ensured a higher occupancy rate and therefore potentially maximise the program’s financial sustainability.

If there’s less beds, the program could’ve gone longer.

Section 8.4.1 addresses this question with regard to the cost-effectiveness of the CRS bed utilisation rate.

One person mentioned the difficulties in providing staff on a 24-hour basis, especially because of the cost involved in that level of staffing.

7.7 Effectiveness of partnership between government and non-government agencies

The vast majority of stakeholders felt that the partnership between SA Health and Neami was highly effective, with several even expressing pleasant surprise that it had in fact been so effective.

There was responsiveness to adversity and sharing debriefing issues. We didn’t expect such grassroots level of cooperation and service delivery support, which highlights SA Health’s progression with working with NGOs.

It has been one of those windows that can showcase a service that won’t work without the partnership working. And perhaps seeing how the NGO sector works and having an appreciation for people’s skill base has been part of that.

The stakeholders saw regular, open and honest communication as the key to the effectiveness of the collaboration. Communication occurred in the form of twice daily “huddles” between Neami and clinical staff, as well as regular phone calls, while partnership meetings and Steering Committee meetings were useful “higher level” forums to discuss any issues between the partners. Various stakeholders provided an explanation of how issues were addressed through the different forms and levels of communication.

Most of the issues get sorted out and managed at a local level. Differing interpretations of issues are usually then raised and clarified at the partnership meetings and if not resolved then, raised at the Steering Committee. The first response is to try to resolve them at a local level, but we will often raise them at partnership level anyway just for communication and to provide information on how the issue was handled.

The integrated approach with clinical and psychosocial support teams has worked really well. The steering committee and partnership meetings have done their job – identifying areas for improvement, mitigating risk and informing people.

We’ve got better at things like, when there’s an incident, sharing knowledge and debriefing etcetera, and have embedded structures at a practice level
That make things work like huddles and handovers which work well for the consumers’ goals.

Some consumers also commented on the fact that they felt that honesty, openness and professional respect had contributed to the equality of the partnership.

It’s very much a collaborative approach with no turf wars. We [SA Health] take on board what Neami has to offer and vice versa.

SA Health can see what we [Neami] do, with our social workers, psychologists, and so on, which prompts immediate respect, meaning we don’t have to prove anything to the mental health teams and clinicians.

It’s taken commitment from both parties to have a commitment to meet, talk things through, and be honest and open with each other.

The managers put quite a lot of work into managing the partnership and providing and accepting feedback without it coming down to “us and them”. Staff can be upfront and honest without personalising it.

Some stakeholders noted that issues such as the initial difficulty in finding appropriate accommodation and differing interpretations of acceptance criteria for consumers had threatened to adversely affect the partnership, but that these issues were eventually resolved through the communication mechanisms detailed above.

7.8 Effectiveness of program governance

Stakeholders generally agreed that CRS’ governance was functioning effectively, with a typical comment describing it as “robust and strong”. Many stakeholders were again of the view that strong communication and openness was the key to this effectiveness.

Things tend to get worked out at that level so conflicts don’t tend to go on. If there is a differing view, things generally get worked out.

Representatives on the steering group are thoughtful about discussion and what to say.

Several stakeholders pointed out minor governance issues. One stakeholder argued that the “dual” governance structure created extra steps in the process and was “trickier than having a single organisation” at the helm. Another stakeholder said that some governance measures were developed “on the fly”, but that the governance had been effective despite this.

Some things weren’t in place as quickly as they could’ve been; but some people didn’t anticipate how quickly things would happen, and CRS is by its nature always hectic and busy. We have developed methods as we figured things out, for example we didn’t have the Senior Program Leader role initially so it was great when that started, and we changed shift start times based on the opening hours of other agencies. So we’ve been flexible.
7.9 Other comments

The researchers asked stakeholders if they had any additional comments to make about CRS. Comments were generally positive, focusing on the strengths and successes of the program.

The feedback is that people have become unwell when they’ve gone to hospital, whereas they come to CRS and avoid hospital and come across people who also want to avoid hospital so they have a commonality and a lot of friendships are born out of the service, and so it adds to their support in their community.

To step back and looking at the volume of people coming through the program it’s actually quite incredible.

I think it does meet a need and for the people that it’s helped. And if it’s stopped people ending up in an ED then it’s doing its job. It has worked for a lot of people. Once the community learns more about it and gets on board they will support it.

It’s really important for it to continue, it’s part of the continuum of support, and if we lose it we’ll lose something important.

We’ve had quite a few onto their 5th and 6th stay. Once someone knows this place exists, they’ll jump up and down to get it and direct their own care. This is a good thing.

Two stakeholders specifically mentioned the effectiveness of the partnership model.

I reckon SA Health have developed a really innovative service approach from a consumer outcome perspective, and in terms of offering consumers an alternative to a hospital. SA Health have been leaders in developing the [partnership] model.

I think it’s a really innovative model and working in partnerships has been a really good experience.

Some stakeholders mentioned challenges that the program had faced, including the aforementioned issues that arose during the setup phase.

Lots of lessons we’ve learnt in setting it up but they could also be taken out and used elsewhere in other programs.

There was a challenge with the lack of time given to prove efficacy of the program. Start-up would’ve been easier with purpose-built facilities but limitations around funding meant we had to have everything up at the one time. Ideally, we would’ve started small with one facility and built up making it easier for everyone. But that was more a concern with funding than management.
The feedback is that it’s been doing what it’s intended to do, so it would be good to have some certainty around it – is hard to run an effective service with funding security.

Overall the stakeholders were highly complimentary about the model and the governance structures, but were disparaging about the timescales of the funding for the program which they perceived did not allow enough time for planning and has compromised the efficacy of the program because there was insufficient time to adapt and improve the program in the light of experience.
8 Economic evaluation

The positive program outcomes presented in the previous sections of this report have been achieved within the allocated program budget. In this context, the economic evaluation examines these outcomes in the perspective of total funding and, where relevant, includes cost offsets to wider health services generated by the program. The economic evaluation is based on the quantitative analysis and aligns cost data with service delivery content to estimate the cost-effectiveness of providing residential and home based CRS services from the perspective of SA Health.

The overall CRS funding figures are available at an aggregate level, in line with approved program budgets and Commonwealth reporting. The figures have been combined with program service delivery from the CARS system, including actual days for residential CRS and estimated bed day equivalents for home based support services. These figures have been used to derive average cost per bed day reference rates as a basis to align aggregate program funding with reported monthly service delivery.

These average cost estimates have then been aligned with program service patterns in the context of timing the cost of offsets. The cost offsets include reduced lengths of hospital stays, reduced ED presentations post program, and avoided health service usage, both inpatient and ED. These are examined in context of the responsive provision of support when entering the CRS program.

8.1 Program funding

Total CRS operating funding of $17.9 million was approved by Cabinet on 21 October 2013. The funding approval included grants and subsidies to non-government organisations and following an open market tender process Neami was contracted for the period 1 June 2014 to 30 June 2016 to source, rent and manage the community based housing for the residential CRS with the contract value of $11.3 million over the two year and one month period. Neami is an established National non-government service provider of specialist psychosocial services to people with mental illness and have been operating in South Australia since 2004.

Separate funding was approved for SA Health staff resources to establish the program, manage the NGO contract and service level agreement and analyse data provided by Neami. The SA Health salaries and wages support clinical roles across the Local Health Networks as well as central program management, administration and reporting. Initial program development funding was allocated in early 2014 while potential facilities where assessed and initial staff were employed in preparation for service delivery which commenced in July 2014.
The ‘hybrid’ nature of the program is reflected in the funding proportions with NGO staff primarily delivering core services and SA Health staff providing management and program coordination. Program funding for the evaluation period as at 31 October 2015 is presented in Table 13. Adjustments have been made to align funding with service hours in CARS to the end of October 2015, as a direct linear proportion.

### Table 13: CRS Program funding 2013–14 to 2015–16

<table>
<thead>
<tr>
<th>Financial Year</th>
<th>Grants to NGO service providers</th>
<th>Supplies and services</th>
<th>Total NGO funding</th>
<th>SA Health operating salaries/wages</th>
<th>SA Health operating supplies/services</th>
<th>Total SA Health</th>
<th>Total Program Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013/14</td>
<td>432,000</td>
<td>0</td>
<td>432,000</td>
<td>164,000</td>
<td>11,000</td>
<td>175,000</td>
<td>607,000</td>
</tr>
<tr>
<td>2014/15</td>
<td>5,337,000</td>
<td>211,000</td>
<td>5,548,000</td>
<td>2,894,000</td>
<td>170,000</td>
<td>3,064,000</td>
<td>8,612,000</td>
</tr>
<tr>
<td>2015/16</td>
<td>1,832,667</td>
<td>33,333</td>
<td>1,866,000</td>
<td>984,000</td>
<td>58,000</td>
<td>1,042,000</td>
<td>2,908,000</td>
</tr>
<tr>
<td>Program totals</td>
<td>7,601,667</td>
<td>244,333</td>
<td>7,846,000</td>
<td>4,042,000</td>
<td>239,000</td>
<td>4,281,000</td>
<td>12,127,000</td>
</tr>
<tr>
<td>Total bed days</td>
<td></td>
<td></td>
<td>7,567</td>
<td>7,567</td>
<td>7,567</td>
<td>7,567</td>
<td>7,567</td>
</tr>
<tr>
<td>Average cost per bed day</td>
<td>1,005</td>
<td>32</td>
<td>1,037</td>
<td>534</td>
<td>32</td>
<td>566</td>
<td>1,603</td>
</tr>
</tbody>
</table>

Source: South Australia Health finance system, CARS
Note: 2015/16 figures as at 31 October 2015

The program totals for NGO and SA Health components have been aligned with aggregate total bed days for the evaluation timeframe, including both actual bed days for residential CRS and estimated bed day equivalents for home based services. This high level estimate is subject to minor variation resulting from timing of service delivery and related bed day equivalent calculation. The estimated average cost per bed day is presented as an aggregate based on total program funding and total CRS program service delivery as the basis to align aggregate funding with service delivery activity.

The approved CRS services include delivery of a total of 31 bed equivalents across the metropolitan Adelaide area. The program funding package includes residential services of 24 beds across three metropolitan Local Health Networks, 8 in each LHN, as well as 7 bed day equivalents covering home based services.

Overall, as at 31 October 2015, the program was being delivered within budget and within estimated budget for the 2015–16 financial year, based on established service delivery levels. The program funding approval currently extends until June 2016.

### 8.2 Program benefits

CRS provides responsive short term support for consumers presenting with a crisis situation, and helps avoid further decline and assistance to continue residing in the
The program provides benefits to the consumer and also assists carers and family members.

The program is delivered in line with the detailed service agreement incorporating key program outcomes including:

- Individual satisfaction around resolution of the situation leading to crisis respite service
- Demonstrated improvements in individual satisfaction around areas such as quality of life, hope for the future, and belief in their potential to recover and regain meaningful life roles
- Improvement in mental health
- Increased stability of community tenure
- Increased family satisfaction
- Decreased psychosocial related hospitalisations
- Decreased number of emergency department presentations
- Exit plan in place and followed through contact within 7 days of exit.

Additionally the Council of Australian Governments (COAG) 10 Year Roadmap outlines the direction governments will take for models of care and support for people with mental illness, aimed at creating more cost-effective and sustainable interventions.

A significant characteristic of the CRS program is the relatively low establishment cost. The program leveraged established systems and NGO network capacity. This enabled SA Health to utilise their reach and capacity during the program development and implementation phases without additional significant up-front investment funding.

### 8.3 Health service cost offsets

Program costs have been prepared using calculated average costs with aggregate service actual bed days and estimated bed day equivalents for home based CRS as recorded in the CARS system, providing the basis for timing of service delivery and the cumulative cost trajectory. The service delivery costs have then been aligned with consumer outcome and health system service usage from CBIS, as presented in the methodology section, and in terms of time series outcomes and each consumer’s duration in the program.

#### 8.3.1 Hospital service costs

For both inpatient and ED service use, there are multiple aspects resulting from the CRS program, which affect cost offsets at separate points relative to when consumers entered and exited the program.
First, there is the reduced service use in the months following CRS support compared to the monthly usage and trend prior. As presented in Section 5.1, inpatient admissions and lengths of stay declined following CRS as consumers proceeded beyond the crisis episode. Hospital admissions in the matched cohort of CRS consumers stabilised at the point of CRS and reduced significantly in following months to relatively low pre-crisis average levels.

Second, and separately, consumers at risk of inpatient or ED presentation were able to be supported in a responsive short timeframe. Significant numbers of consumers are reported as having avoided hospital admission or ED service altogether. This is reflected through the CBIS consumer datasets and has been used to separately estimate the number of avoided incidents for inclusion in the cost-effectiveness model. This is correspondingly not reflected in the pre-program average lengths of stay or the change between the pre and post program timeframes.

The third aspect results from consumers being discharged earlier than expected with the community home based support of CRS. This is reflected in 7.5% of residential CRS consumers recorded as current inpatients on entry to the program, as well as 1.9% of those receiving home based support. Again, this may result in the pre-program inpatient length of stay being reduced by the amount of the early discharge.

Through CRS providing a timely response to referrals the program supports a range of diffused benefits, not only through actual inpatient admissions and ED presentations avoided or reduced, but also indirectly through reducing wait and stay times in emergency departments.

**Inpatient costs**

The average cost of psychiatric inpatient care is subject to various estimates from approximately $800 per day to $1,200 per occupied bed day. In line with the conservative approach taken, the lower estimate of $800 per day has been used in cost-effectiveness estimates.

**Emergency Department costs**

The average cost of an ED presentation used in cost estimates is $400, again with estimates above this level reported.

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12 SA Health Evaluation of the Intermediate Care Services, Final Report 2013. Mental health acute costs provided by System Performance SA Health and are based on RAH, FMC, Noarlunga and the Repatriation Hospital. Cost data for 2011/12 for Glenside, Lyell McEwin and TQEH was not available.

8.4 Cost-effectiveness

In line with consumer outcomes presented in Section 5, the broad perspective of program effectiveness is positive across target objectives. This is particularly the case for consumers in terms of responsiveness of CRS support and the highly significant reductions in levels of psychological distress reported on program exit.

In this context, the program cost-effectiveness implicitly includes this full range of consumer outcomes, positioned against the total program funding. The perspective from the Commonwealth and the South Australian Government as program and health system funders focuses on specific service use measures that can be quantified in terms of cost savings or ‘offsets’ to related services, predominantly hospital services including admissions and ED presentations. The cost-effectiveness perspective for the CRS takes this focus on measurable health service cost offsets. It is, however, emphasised that there are substantial program outcomes in terms of improvement in consumers’ wellbeing and life pathways that are not measured but that should be considered in relation to program effectiveness and overall cost-effectiveness.

The CRS cost-effectiveness reflects core program development and timeframe characteristics. To begin with, the CRS did not require substantial establishment investment to develop the program as the program was able to utilise established capacity and experience within the NGO network.

The further core characteristic of the cost-effectiveness is the relatively short term perspective due to the programs’ recent establishment and corresponding duration of post program outcome data. The time series framework is based on 6 consecutive months before entering, generally 7 days support while in the program, and 3 consecutive months post program.

The primary consumer outcomes for inpatient admission and ED presentations focus on the month directly prior to entry, when the crisis episode occurred, and the 3 months following program support, which represents a 9-month timeframe including time in the program. These before and after periods provided sufficient consumer sample sizes, and the changes in hospital service usage before and after are statistically significant.

On this basis, the cost-effectiveness model uses program costs directly aligned with CRS bed days and bed day equivalents delivered and overlays the 3 month outcomes with the timing of consumer exits each month. The cost-effectiveness estimates are in this respect a rolling cycle of program funding during the CRS support period, i.e., 3 months of outcomes for each consumer, and then a turnover of new consumers flowing through the program cycle.

In the initial phases of the economic evaluation, scenarios were examined to model outcomes in relation to an extended timeframe based on the extrapolation of
available intermediate outcomes. Although it appears likely that program benefits continue beyond the 3 months for which outcome data are currently available, the figures for the cost-effectiveness base case use only available, statistically significant figures. In this context, the base case cost-effectiveness estimates are a conservative estimate of the program cost-effectiveness and subject to verification when more post program data becomes available.

The funding arrangement also provides a service control of total hours within the program budget, and there is no evident risk of cost overruns. This is reflected in program operation to date, which is within current and projected year end budget targets.

Additional positive consumer outcomes also result from program support. Although these positive outcomes are evident, they are difficult to quantify, especially within the primary evaluation timeframe. The following examples provide preliminary evidence of broader health service offsets that potentially contribute further to the program cost-effectiveness. Collectively, they represent additional benefits and further cost offsets which add further to the program cost-effectiveness perspective.

Additional program benefits potentially result from stabilising crisis episodes and the related range of improvements in health and reengaging in their community activities, education, or employment. In addition the reductions in psychological distress as reflected in changes in the K10 scores (Table 6) are likely to contribute to positive economic impacts which are not quantified here.

The estimation of program cost effectiveness is characteristically undertaken using specific health related quality of life instruments validated for health economic evaluation, for example in Australia using the AQoL-8D multi attribute questionnaire. These validated surveys have been developed to be sufficiently general in order to support comparability of programs or medications being evaluated, with an implicit trade off in specific sensitivity to health dimensions, and in the case of CRS, mental health aspects.

A wide range of disease and condition specific instruments are routinely used in program evaluation and research, aimed at measuring sensitivity of target outcomes, such as the K10 integrated into the CRS reporting protocols. Ongoing research is examining the relationship and correlation between these groups of established international instruments, including the K10 and the AQoL-8D used widely for economic cost effectiveness analysis in Australia. This research includes specific work indicating the correlation between levels of severity in K10 and the AQoL-8D with the implication of developing mapping to assess cost effectiveness of programs where validated measures are collected directly, as for the CRS.
program. While there are limitations in direct comparison of these instruments, the work indicates significant broad correlation between K10 scores and validated measures of increased cost effectiveness. In this context the highly significant before and after CRS K10 scores represent a significant positive contribution to the program cost effectiveness.

**Hospital discharge support**

There is an implicit overlap with general post discharge support services for which CRS is substituting support. Although it is not a core objective of CRS, 78 consumers (6.1%) were referred to the program as inpatients. This represents a further potential positive cost offset resulting from the program.

**Program funding**

Program funding is aligned on this basis of cumulative beds and bed day equivalents provided, based on average cost, as shown in Figure 11. The cost-effectiveness figures presented combine cumulative program funding with identified service use offsets, in particular for reduced number of inpatient days and ED presentations post program. The perspective also includes inpatient admissions and ED presentations avoided as a result of the responsive commencement of program support.

**Outcomes and cost offsets**

The CRS cost effectiveness figures are based on the evaluation timeframe data to October 2015 and then on corresponding projections to the financial year end in June 2016. The program funding trajectory is represented by the solid line, shown for the separate proportions of residential and home based CRS as dotted lines. Against this total program funding, cost offsets are presented as stacked bars reflecting the proportion of estimated hospital admission or ED reduced or avoided.

The significant program outcomes reflected in the K10 scores and more widely through the interview series are additional benefits produced through CRS support. The program data and consumer interviews also highlighted the risks of many mental health episodes, with a number of consumers indicating that they had considered suicide. In this context the program has a significant range of outcomes that are not captured, having been prevented, and in this context are implicit in program effectiveness and resulting cost-effectiveness.

Given the potential magnitude of these aspects, the modelled cost-effectiveness is considered to be a sub component of quantifiable health service usage.

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8.4.1 Service delivery and utilisation

The program establishment and development reflects preliminary delays and relocation of services from interim premises. As presented in Section 4.2 once established, service delivery was sustained at relatively stable levels each month.

In line with Commonwealth reporting, utilisation rates were relatively low during the initial program development phase and increased within the first months to 30% to 40% of available bed and bed day equivalents for home based support. The program utilisation increased during the majority of the evaluation period with characteristic monthly variation, in line with the inherently unpredictable nature of crisis episodes, to around 60% for available residential beds and 50% for home based CRS. By comparison, hospital bed occupancy rates are generally reported against a target 85% capacity, to allow for admission and discharge cycles and demand fluctuations. By the nature of crisis respite, demand is characteristically variable and will reflect in monthly occupancy variation.

In this context, and given the increasing service delivery over time, there is underutilised program capacity in both residential and home based CRS that provides further upside service delivery potential. In the case that program utilisation increases further, this would positively reflect in the program cost effectiveness as further service delivery could be provided within the fixed cost components.

8.4.2 Inpatients and reduced lengths of stay

In line with Section 5.1.5 above, the cost-effectiveness includes core estimates based on the actual inpatient and ED activity both through reduced admissions and lengths of stay, as well as hospital service use avoided due to program support prior to the program. The cost effectiveness base case uses a matched CRS consumer cohort for which a statistically significant consumer sample was available.

The actual number of hospital admissions, excluding admissions avoided, reflect an increase in hospital admissions in the months immediately prior to CRS support, a levelling off at the point of CRS, followed by a significant decline following support to relatively low pre-program levels.

Additionally, the reduced lengths of stay component, resulting from consumers’ early discharge, may contribute to estimated inpatient cost offsets. This element has not been explicitly included in the cost-effectiveness estimates due to the uncertainty of estimating early discharge against an expected or benchmark LOS. However, in the case of early discharge as a result of CRS, this would further contribute to total inpatient cost offsets.
8.4.3 Hospital admissions avoided

As presented in Section 5.1.6 a relatively high proportion of both residential and home based consumers are reported to have avoided inpatient admission as a result of the CRS program, 40.3% of total CRS episodes. This reflects the program targeting of individuals at risk of hospital admission and indicates that a significant number of consumers avoided inpatient admission completely on entry to the program.

The average length of stay avoided is based on the paired before and after consumer cohort, compared to potentially more complex and chronic cases. The CRS paired sample indicates that average lengths of stay are below national average figures, and the analysis reflects the reduced average LOS.

8.4.4 Cost-effectiveness model projections

The cost-effectiveness of the program is characterised by a focus on program days or hours delivered during the typical duration of up to 7 days in comparison to consumer outcomes for the relatively short post program perspective of 3 months. This is supported by the absence of significant establishment costs that typically may be compared to longer term outcomes to cumulatively deliver sufficient offsets to recover the investment.

The focused 3-month post program perspective reflects the short term responsive and early intervention approach of the CRS and aligns with the basis for quantifying outcomes, based on paired before and after figures for individual consumers.

The estimations as presented in Figure 11 are based on the statistically significant outcome results described in Section 5. The outcome data for the evaluation was available until October 2015, and projections are presented forward until the end of the 2015–16 financial year, covering the 25 months of the CRS project from commencement in June 2014 until June 2016.

As described previously, the model is driven by rolling consumer throughput, with outcomes captured in a relatively short timeframe post program. On this basis, the program is achieving the service delivery outcomes and benefits presented in Section 5, as well as generating a partial level of health service cost offsets.

The cumulative program funding is shown as for total CRS funding (solid line) as well as separately for the proportion of residential CRS (dotted line) and home based services (dashed line). The reduced inpatient days (dark blue bar segment) is based on the paired outcome analysis and average before and after change. The relative proportion of offset reflects the generally moderate duration of hospital admissions for CRS consumers, given that higher level and chronic mental health diagnoses are characteristically supported through separate programs within the stepped care framework.
Figure 11: Cumulative CRS funding and service use offsets – base case

As presented in Section 5.1.6, approximately 40% of CRS consumers indicated that the program helped them avoid ED attendance. This is consistent with figures showing that the first point of system contact for mental health related episodes is often an ED. The potential scale of cost offset from avoided ED is represented as shaded grey for reference and reflects the short duration contact with ED in comparison to admission.

The outcomes to program consumers, as outlined in previous sections, include highly significant improvements in the level of psychological distress as measured through the before and after CRS K10 scores. As discussed in Section 8.4 ongoing research has demonstrated a significant correlation between K10 levels of severity and validated instruments with the implication that a statistically significant improvement in K10 indicates a positive contribution to program cost effectiveness.

In context of the CRS cost effectiveness, reduced inpatient and ED activity is estimated to generate cost offsets in the order of one third of the program cost. Although there is relatively higher uncertainty with reported inpatient and ED attendances avoided, this component contributes to further cost offsets, potentially accounting for an additional one third of program cost in the case the reported levels of avoidances are being achieved. In broad terms the residual one third of program funding may be viewed as the cost of reducing mean K10 scores by 9.2 points per consumer, as represented in Figure 11 by the gap between total funding and total estimated cost offsets.
In aggregate terms the significant reduction in CRS K10 scores, based on residual funding after estimated cost offsets, represent a raw average cost in the order of $375 per K10 point reduction. Estimated cost offsets are presented as conservative and plausible estimated figures, however in the case these levels of offsets are not realised, the residual funding may be higher, and the estimated cost per K10 point reduced may be closer to $500. The purpose of these estimates is not to suggest an accurate measure of the average cost of improving the K10 score, but to indicate that even under conservative assumptions, and scenario analyses to test variation in offsets, the significant post CRS K10 improvements are contributing materially to the program cost effectiveness.

Program objectives that result in changes to service use are separately identified and presented as stacked bars to reflect cumulative estimated program cost offsets per month. In the case that outcome benefits are sustained over additional duration, the cumulative benefit will add further to program effectiveness and cost-effectiveness. Given the short term intervention of CRS support it is not possible to verify whether benefits may extend over longer term timeframes, perhaps through reduced patterns of longer term readmission or ED presentation. Accordingly any potential longer ongoing benefits are not included in the cost effectiveness figures.

Additionally, as presented in Section 8.4.1, underutilized capacity remained at the end of the evaluation period in October 2015. If CRS program utilisation levels continued to increase, this would positively contribute further to estimated program cost effectiveness. This is because additional numbers of consumers could be supported within the fixed cost components. This is particularly the case for the residential facilities. CRS occupancy figures did indeed increase in the months following the formal evaluation period. Home based services increased to around 70% occupancy and facility based utilisation was reported at similar levels in some Local Health Networks, although on average residential occupancy remained closer to 60%.\textsuperscript{15} This suggests that program demand continued to develop, further utilising remaining excess capacity and plausibly contributing further to program cost effectiveness.

Projected funding and cost offset figures for 2015–16 have been indexed using the 2014 consumer price index weighted for capital cities of 1.7% per annum, which is also the same rate reported specifically for Adelaide.\textsuperscript{16} In line with other aspects of the cost-effectiveness estimates, this figure is conservative as health service costs are consistently reported to be increasing faster than the broad index. In the case that higher health service prices occur, this would add to the estimated figures as services of higher value are being offset.

\textsuperscript{15} Home based figure based on 2015–16 year to date as at January 2016.
\textsuperscript{16} Australian Bureau of Statistics, 6401.0 - Consumer Price Index, Australia, Dec 2014 December Quarter 2013 to December Quarter 2014 weighted capital city 1.7% health component was 4.4%.
8.5 Discussion

Overall, as outlined in the report introduction, the CRS program reflects evidence based practice in psychosocial rehabilitation which has broadly transitioned from illness focused models towards social functioning based models. This shift emphasises the value of early intervention and the rapid provision of appropriate services aiming to support improvement in an individuals’ competencies and to introduce environmental changes to improve the quality of life of individuals with mental illness.

The Crisis Respite Services program is being delivered in the context of national and state policy and mental health strategy directives under the National Action Plans on Mental Health and COAG National Mental Health Policy. The SA Health Strategic Plan outlines the ongoing development of services, including mental health residential and home based sub-acute crisis respite services as an ongoing reform to improve early access to more integrated specialist and support services. Specifically, South Australia’s Strategic Plan includes a target of achieving an equal or lower level of psychological stress to the Australian average and sustaining that level. In this overarching policy context, the CRS program is consistent with the direction of ongoing recovery-oriented reform in mental health.

Growth in the partnership between SA Health and the NGO sector has continued over several years and is central to delivery of CRS support available to consumers. This growth is the result of consistent partnership as the basis to continue developing further program models, skills and workforce capacity. This has enabled the program to be set up relatively quickly despite the challenges of finding appropriate accommodation and to run smoothly throughout its duration. The level of trust which characterised relationships between agencies, at the service delivery and the strategic management levels, has been a key factor in the success of the program.

SA Health have developed and implemented sub-acute Crisis Respite Services to complement the established stepped model of care and provide an additional service delivery option for people with mental illness. The CRS aims to identify mental health diagnoses early and ensure access to integrated services across health and social domains to provide a period of respite care for consumers experiencing crisis episodes or deterioration in their mental health, and assist in addressing the issues leading to the presentation in crisis and in restoring usual or improved functioning and living skills that support them to reside in the community.

9 Conclusion

This evaluation adds to the evidence base for the effectiveness of respite care; in particular in the context of a crisis or hospital admission and as part of a stepped system, of mental health care. It is important to put this finding into context. The review of the literature provided in Section 2 indicates the generally positive findings from previous research on respite care, but points out that most of the previous evaluations have relied on satisfaction surveys and other methods which do not provide robust data on outcomes. This is partly because of the challenge of measuring outcomes for a short term intervention such as CRS, especially in the absence of a control group.

This evaluation is based on a dataset which includes the large number of customers who have used the CRS and following up their engagement with the mental health service system for three months after they received CRS. In addition the evaluation is able to provide insights into the mechanisms by which CRS has been successful, as well as the challenges.

It is unusual for a multi method evaluation such as this to provide such consistently positive findings across different methodologies. This shows that the service context in which CRS was implemented is unusual if not unique, especially with regard to the partnership between SA Health and the NGO sector. The history of collaborative working across a number of previous programs has enabled the CRS to be set up and run efficiently and to deal with the challenges involved in establishing and running a new and quite complex program.

The CRS was also innovative in providing both residential and home based respite care. This was partly due to necessity; there were significant challenges in acquiring suitable accommodation for the program in each health district. However the flexibility which was provided by being able to offer consumers a choice between residential and home based care turned out to be a strength of the program.

Overall the evaluation has found that Crisis Respite Care can provide substantial benefits to the wellbeing of sub-acute mental health consumers at relatively low cost. CRS should be an integral part of a recovery oriented system of provision in mental health.
10 References


### Evaluation objectives

### Evaluation questions

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>To determine the extent and impact of the Crisis Respite Services initiative/services on consumers and their informal carers, and the wider service system.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For consumers</td>
<td>Improved mental health</td>
</tr>
<tr>
<td></td>
<td>Enhanced capacity to live independently</td>
</tr>
<tr>
<td></td>
<td>Participate in community life</td>
</tr>
<tr>
<td></td>
<td>Enhanced quality of life</td>
</tr>
<tr>
<td></td>
<td>Achieved or maintained housing stability</td>
</tr>
<tr>
<td></td>
<td>Reduced frequency and severity of crisis (recovery oriented – avert crisis, prevent relapse)</td>
</tr>
<tr>
<td></td>
<td>Increased self-efficacy to manage mental illness (e.g. use of flexible supports)</td>
</tr>
<tr>
<td>For carers</td>
<td>Carers and informal supporters of consumers feel better supported and informed to care for their family/friend</td>
</tr>
<tr>
<td>For service system/community/consumers</td>
<td>Reduced reliance on acute sector and community MH specialists (e.g. number of admissions and days in hospital)</td>
</tr>
<tr>
<td></td>
<td>Reduced need for emergency services (e.g. presentations at EDs)</td>
</tr>
<tr>
<td>For service providers</td>
<td>Feel supported and well equipped to meet the needs of people with severe mental-ill health</td>
</tr>
</tbody>
</table>

### Data source

- Program policy and documents
- Gov data (e.g. CBIS)
- Non-gov data (e.g. CARIS)
- Consumer interviews
- Carer interviews
- Stakeholder focus groups & interviews

- ✓
- ☑
<table>
<thead>
<tr>
<th>Evaluation objectives</th>
<th>Evaluation questions</th>
<th>Data source</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Services are tailored at a level of intensity and duration appropriate to the consumer’s needs</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>recovery oriented services and support meeting the needs of the target group (people with serious mental illness, complex needs), in particular Indigenous and young people</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Implementation is consistent (integrated care / consumer journey from engagement to exit)</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>effective inter-agency partnership approach (gov &amp; non-gov; local and regional etc.)</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Program is reaching its target groups (in particular Indigenous and young people)</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>Program governance structures are effective</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>The program is enhancing partnerships with the community to build capacity (social recreational services, education and training, CALD and Indigenous services etc.)</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>The program is enhancing partnerships between government and non-government community mental health services, consumers and carers</td>
<td>✓</td>
</tr>
<tr>
<td>Cost-effectiveness</td>
<td>This will involve an analysis of outcome measures, activities and where data is available financial comparisons of bed equivalent costs with hospital bed days and emergency department presentations.</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>compare Crisis Respite Services daily program cost per ‘bed day equivalent’ to cost of Emergency Department and hospital bed day costs</td>
<td>✓</td>
</tr>
</tbody>
</table>
### Appendix B  K10 score grouping

Before and after CRS K10 scores have been grouped under the following categories as one of the established ranges used by the Australian Bureau of Statistics.  

<table>
<thead>
<tr>
<th>K10 Total Score Levels</th>
<th>Level of psychological distress</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-19</td>
<td>The score indicates that the client or patient may currently not be experiencing significant feelings of distress.</td>
</tr>
<tr>
<td>20-24</td>
<td>The client or patient may be experiencing mild levels of distress consistent with a diagnosis of a mild depression and/or anxiety disorder.</td>
</tr>
<tr>
<td>25-29</td>
<td>The client or patient may be experiencing moderate levels of distress consistent with a diagnosis of a moderate depression and/or anxiety disorder.</td>
</tr>
<tr>
<td>30-50</td>
<td>The client or patient may be experiencing severe levels of distress consistent with a diagnosis of a severe depression and/or anxiety disorder.</td>
</tr>
</tbody>
</table>

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18 4817.0.55.001 - Information Paper: Use of the Kessler Psychological Distress Scale in ABS Health Surveys, Australia, 2007-08
Appendix C  CARS CRS data items

The CARS data items used in the quantitative analysis includes the following:

For Residential CRS services:

- Report date
- Month and year
- Consumer identification number
- Consumer date of birth
- Consumer age
- Consumer Aboriginal and Torres Strait Islander status
- Consumer CALD status
- Program referral date
- First contact date
- Exit date
- Number of residential days
- Record referral source

For home based CRS services:

- Report date
- Month and year
- Consumer identification number
- Consumer date of birth
- Consumer age
- Consumer Aboriginal and Torres Strait Islander status
- Consumer CALD status
- Program referral date
- First contact date
- Exit date
- Number of intensive hours
- Number of intensive contacts
- Record referral source
Appendix D  Neami consumer exit survey and data

Crisis Respite Service: Consumer exit questionnaire

1. How would you rate the level of support provided by the team during your stay? [very good, good, average, poor, very poor]

2. How would you rate your experience of engaging with other consumers during your stay? [very good, good, average, poor, very poor]

3. How did you find the daily routine/structure during your stay? [very good, good, average, poor, very poor]

4. How safe did you feel here? [very safe, safe, undecided, unsafe, very unsafe]

5. How would you rate your level of confidence in now using your Crisis Support Plan to help you in the future? [very confident, confident, unsure, somewhat confident, not at all confident]

6. What was valuable about your stay? [free text]

7. What might improve your experience of staying here? [free text]

8. Overall how satisfied were you with your stay? [very satisfied, satisfied, neither satisfied nor dissatisfied, dissatisfied, very dissatisfied]

9. Would you like to make any other comments about your stay? [free text]
## Exit survey data (up to 31 October 2015)

### Residential exit questions

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### Home Based exit questions

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### Residential exit questions

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### Home Based exit questions

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