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Article

A Multifaceted Assessment of the Consultation Liaison Psychiatry Service within a regional Australian hospital

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Abstract: Background: Medical and mental health conditions have a reciprocal relationship, with each impacting the other. Consultation-Liaison Psychiatry (CLP) is a sub-specialty that addresses psychiatric co-morbidities in the general hospital system and positively impacts hospital resources through its service aspects of 'consultation' and 'liaison'. This multi-faceted evaluation aims to describe and evaluate the characteristics of a regional CLP service. **Methods:** Retrospective evaluation of all referrals accepted by CLP between May 2021-2022 were reviewed through the hospital's electronic records. An evaluation tool was designed to assess multiple aspects of care including the source of referrals, the reasons for referral, patient demographics, how quickly the patient was seen, information of their mental health, and the details and timeframe of CLP involvement. **Findings:** There were 147 patients included in the study. Doctors were the primary referrers (92%). A total of 94% of patients were reviewed within 24 hours of the referral being received. Referral reasons were balanced across diagnostic clarification/review, medication review and risk review. A large proportion of referrals were aged >60 years. There was a large proportion of patients that lived rurally requiring hospital transfer. CLP involvement was primarily required to provide a diagnosis (91% of patients) and provide pharmacological management advice (88%). **Conclusion:** The CLP service currently operates with limited resources, and without additional support, the sustainability of the service will become increasingly challenged due to population aging. It is essential that we address this issue to ensure that the community's needs are met effectively.

Keywords: consultation-liaison psychiatry; hospital psychiatry; service delivery; regional health

1. Introduction

The relationship between medical and mental health conditions is bidirectional, each condition affecting the other. This co-existence of a medical and psychiatric co-morbidity can affect patients and the healthcare system negatively in many ways, such as higher resource usage, longer admission periods, increased representations to hospital, and higher resource usage [1–5]. Recent literature suggests that approximately 33% to 43% of patients admitted to medical wards have psychiatric illnesses that fulfil criteria set out by the DSM-V, and this number is set to increase in the coming years [6]. This highlights the urgent requirement of an effective and well-resourced Consultation-Liaison Psychiatry (CLP) service in hospitals due to this growing prevalence of mental health conditions in hospitalized patients [6,7].

CLP is a subspecialty of psychiatry that specializes in assessing, diagnosing, and managing the psychiatric comorbidities of patients hospitalised for medical conditions [8]. CLP services provide a positive impact on the health system through more comprehensive care, reduced length of stay

(LOS), and improved cost efficiency [9,10]. In understanding the functioning of a CLP service, it is essential to delineate the terms 'consultation' and 'liaison'. The 'consultation' aspect involves the assessment of inpatients referred within the general hospital system. This process is characterised by a timely bedside assessment, leading to the formulation of an impression/diagnosis and the tailoring of an individualized management plan. Subsequently, these management plans are communicated to the referring team, with follow-up reviews conducted as required [4,11]. Essentially, this aspect of the CLP service entails delivering mental health consultations and management to patients whose psychiatric conditions, though significant, may not be the primary reason for their hospital admission [4]. The 'liaison' aspect, on the other hand, centres on establishing professional hospital relationships with other hospital departments and professions. This involves provision of education to equip hospital staff members with the necessary skills for managing general hospital inpatients with psychiatric comorbidities. Additionally, 'liaison' activities encompass attending unit meetings, participating in clinical case reviews and engaging in discussions [11]. Collectively, these efforts translate into improved mental health acumen, awareness, skills, and safety, ultimately providing support for inpatients with concomitant mental health issues and thereby improving overall patient outcomes [8].

There is an imperative need for quality improvement in healthcare services, as the majority of medical errors and inefficiencies are a result of faulty systems and processes rather than individual actions [12]. The Institute of Medicine has outlined six fundamental aims of health care services: effectiveness, safety, patient-centeredness, timeliness, efficiency, and equitability [13]. The primary objectives of assessing healthcare services include evaluating the impact of a service, whether it yield positive or negative effects, and gauging its adherence to evidence-based standards [14]. However, the measuring of service quality should be done with available benchmarks to objectively identify true service performance and to identify improvements that are necessary for further service development [15]. Currently, Australia lacks national standards or benchmarks for CLP services, with the exception of staffing parameters [16].

This service evaluation thus aims to evaluate the local CLP service by analysing all referrals received over a year using a carefully designed evaluation tool. To our knowledge, this is the first evaluation of its kind to be done for a CLP service within a regional Australian city.

2. Materials and Methods

2.1. Setting

Mackay Base Hospital (MBH) is a public regional hospital with 251 beds with a catchment area covering 90,364 km² and servicing more than 170,000 people [17]. The CLP service at MBH was established in 2016 and operates with a single consultant, an advanced trainee of CLP and a clinical nurse consultant. The CLP service operates on weekdays from the hours of 8am to 4pm. After hour support is provided by the mental health on-call team, which is a consultant and a registrar. The team provides its services to the general hospital system, including departments such as obstetrics and gynaecology, paediatrics, emergency short stay, general surgery, general medicine, orthopaedics, intensive care and coronary care. The CLP team handles new and existing referrals for routine or urgent mental health assessments including conducting follow-ups as necessary. The CLP team provides its services for new or existing diagnoses of psychiatric conditions including functional disorders, psychotic disorders, mood disorders, neuroses, cognitive disorders, or other psychiatric disorders be associated with or resulting from a medical condition. This encompasses suicide and risk assessments, and the team provides advice on the initiation or adjustment of psychopharmaceutical drugs. In addition to its 'consultation' services, the CLP team also provides 'liaison' services, including providing psychoeducation with various hospital departments through either formal or informal teaching. Since its inception, the referrals received by the service have increased exponentially, which may reflect the recognised increased prevalence in mental health conditions associated with medical comorbidities [1,2,7,18]. However, the resourcing and staffing received by the CLP team have seen minimal changes.

2.2. Study Design

Ethical approval was provided by Central Queensland Hospital and Health Service Human Research Ethics Committee (EX/2022/QCQ/88071). This retrospective evaluation examined all CLP consultations spanning a one-year period from May 2021 to May 2022. The inclusion criteria encompassed all new referrals/consultations which were appropriately referred, and cases involving existing or recurrent consultations. The exclusion criteria comprised referrals that were duplicated and instances where patients legally discharged themselves against medical advice before the CLP review.

To ensure a comprehensive and impartial service evaluation, the evaluation tool was designed in two stages. Firstly, internal consultations were conducted with key health service stakeholders involved in service planning and resource allocations. Secondly, external consultations occurred with organizations and CLP services of comparable scale. The tool is provided in Table 1. All data were entered into a Microsoft Excel sheet. Descriptive statistical data was calculated using Microsoft Excel.

Table 1. Service Evaluation Tool.

Referral	
1. Referrer	1. Doctor 2. Nurse 3. Psychologist 4. Social Worker 5. Other
2. Referrer Department	1. Medical 2. Surgical 3. Orthopaedic 4. Oncology 5. Obstetrics and Gynaecology 6. Intensive Care Unit 7. Coronary Care Unit
3. Medical reason for admission under treating team	
4. Reason for referral to CLP Team (Select all those that apply)	1. Diagnostic Clarification/Review 2. Medication Review (Cease, altering dose, addition of medications) 3. Risk Assessment
5. Time taken for CLP team to review patient	1. < 24 hours 2. 24-48 hours 3. > 48 hours
Patient	
6. Gender	1. Male 2. Female 3. Other

7. Age of patient	1. 18-39 years 2. 40-59 years 3. 60-79 years 4. 80-100 years
8. Indigenous Status of patient	1. Non-indigenous 2. Aboriginal 3. Torres Strait Islander 4. South Sea Islander
9. Mental Health Act (MHA) status	1. Voluntary or None 2. Recommendation for Treatment 3. Emergency Examination Authority 4. Treatment Authority
10. Transfer from rural origin	1. Yes 2. No
11. Previous psychiatry contact	1. Yes 2. No
12. Established existing psychiatry diagnosis	1. Yes 2. No
Outcome	
13. Review outcome (Select all those that apply)	1. Diagnosis and category; (Mood disorders, psychotic disorders, cognitive disorders, other psychiatric conditions) 2. Non-pharmacological management advice 3. Pharmacological management advice (Cease, altering dose, addition of medications) 4. Admission to Mental Health Unit 5. Referral to other services (Psychologist, other allied health professions)
14. Number of contacts with CLP this admission	1. 1-4 2. 5-9 3. 10-14 4. 15-19 5. ≥20
15. Total length of hospitalization (Days)	
16. Discharge destination	1. Home 2. Residential Aged Care Facility 3. Hospital Transfer 4. Others

18. Follow-up contact with mental health services	1. Yes
	2. No

3. Results

Of the 159 referrals directed to the CLP service during the study period, 147 met the inclusion criteria to be assessed through the evaluation tool. Of the 12 excluded referrals, five were due to referral duplication, three were due to the patients discharging against medical advice, and four were made in error on the iEMR system. The results section is delineated into the three sections of the evaluation tool.

3.1. Referral

137 (92%) of the referrals evaluated were from doctors, 3 (2%) came from nurses, 4 (3%) from psychologists, 1 (1%) from a social worker, and 4 (3%) from others – physiotherapists and dieticians. For referrals received from doctors, 84 (61%) of these practitioners were from the general medical department, followed by 32 (23%) practitioners from the general surgical department. The rest of the departments were largely similar in numbers. The full breakdown of the departments from which doctors referred their patients from can be found in Table 2.

Table 2. Departments submitting CLP referral.

Hospital Departments	
	Number of referrals (%)
General Medical	84 (61%)
General Surgical	32 (23%)
Orthopaedics	5 (4%)
Coronary Care Unit	7 (5%)
Obstetrics and Gynaecology	2 (1%)
Oncology	2 (1%)
Intensive Care Unit	5 (4%)
Total	137

3.2. Patient

Patients who were referred during the evaluation were analysed for demographic and psychiatric information. These results are displayed in Table 3.

Table 3. Patient characteristics.

Gender	
	Number of referrals
Male	75 (51%)
Female	72 (49%)
Age	
18-39 years	23 (16%)
40-59 years	37 (25%)

60-79 years	57 (38%)
80-100 years	30 (21%)
Indigenous Status	
Non-Indigenous	144 (98%)
Aboriginal	3 (2%)
Torres Strait Islander	0 (0%)
South Sea Islander	0 (0%)
Mental Health Status	
Voluntary or None	133 (91%)
Recommendation for Assessment	8 (6%)
Emergency Examination	4 (2%)
Authority	
Treatment Authority	2 (1%)
Rural Origin	
Yes	31 (22%)
No	116 (78%)
Previous psychiatry contact	
Yes	71 (48%)
No	76 (52%)
Established existing psychiatric diagnoses	
Yes	87 (59%)
No	30 (41%)

3.3. Outcomes

The review outcomes of these referrals can be seen in Table 4, with a single referral often resulting in one or more of these review outcomes. 89 (60%) of the referrals had 1-4 contacts, 44 (29%) had 5-9 contacts, 11 (7%) had 10-14 contacts, none had 15-19 contacts, and only 3 (2%) had more than 20 contacts with the CLP team (Figure 1). The mean (+/- standard deviation) length of hospitalization of all 147 referrals was 31.5 (40.4) days. Five referrals were deceased during their hospitalization and were not included in the calculations for the length of hospitalizations. The most frequent discharge destinations for these referrals were their own residences at 89 (60%), followed by residential aged care facilities at 32 (21%), with other discharge destinations including inter-hospital transfers, prison, and various forms of temporary accommodation. Follow up mental health services were arranged for 51 (34%) of referrals, while the other 96 (66%) did not require any forms of follow up with other mental health services. Of the 147 evaluated referrals, 139 (94%) of them were seen by the CLP team in under 24 hours, 6 (4%) of them were seen within the 24-to-48-hour period, while 2 (2%) referrals were seen past the 48-hour mark.

Table 4. Review outcome (multiple outcomes may be selected for a single referral).

Review Outcome	Number of referrals
Diagnosis and category	137 (91%)
- Mood disorder	36 (24%)

- Psychotic disorders	9 (6%)
- Cognitive disorders	63 (43%)
- Other psychiatric conditions	29 (20%)
Non-pharmacological management advice	33 (22%)
Pharmacological management advice	120 (81%)
Admission to mental health unit	8 (5%)
Referral to other services	77 (52%)
- Psychologist	41 (28%)
- Other allied health professions	36 (24%)

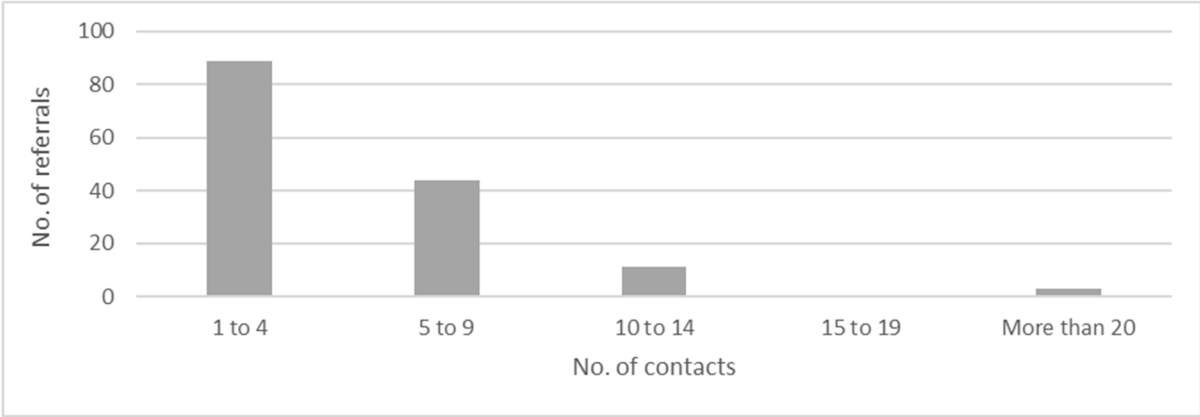


Figure 1. Number of contacts with CLP team for the admission (total = 147)

4. Discussion

To our knowledge, this is the first study to assess the demands on a regional Australian CLP service to assist in the development of CLP standards. This study demonstrated the importance of the CLP service in addressing the psychiatric co-morbidities and psychiatric challenges faced in the general hospital system. However, the service will require future resource influx to cope with the aging population and increased referral numbers.

The referrers of the service are typically doctors and the majority are from the general medical ward, as has previously been reported [19–21]. A recent systematic review found that poor recognition of mental illness was the most frequent reason for clinicians not referring to CLP [22]. We found that diagnostic clarification was the most common reason for referral to CLP, and this may be again due to minimal experience in dealing with psychiatric conditions or the presence of comorbid complex psychiatric conditions that are often best seen by psychiatrists [19]. This indicates a plausible deficiency in the ‘liaison’ aspects of the local CLP service that would require reform specifically in the areas of providing education in recognizing common co-morbid mental health conditions in general hospital inpatients.

Any healthcare service has an obligation to do no harm to patients. Knowing if a patient is on an MHA is a key factor, as it often greatly changes the management of their psychiatric conditions, e.g., removing their autonomy and making treatments compulsory [23]. Understanding a patient’s cultural background and beliefs are equally as important, as this improves the cultural safety of mental health care delivered [24]. The rurality of a patient’s residence should also be considered, as mental health care provision of patients from rural and remote Australia differs from metropolitan centres [3]. In our study, a sizable proportion of patients requiring the CLP service were from rural

locations, and this introduced additional complexity to their management. Resourcing and further collaborative care between CLP and community mental health services in the future could be an effective strategy for the delivery of safe mental health care to patients from rural and remote origins.

CLP service efficiency has previously been measured by time taken to see the patient, with 95% of patients seen within 36 hours in a Geneva hospital, 90% of referrals seen within 24 hours at the Royal Melbourne Hospital, and a Perth metropolitan hospital which stipulated a clinical indicator of 90% of referrals to be seen within 24 hours and 95% of referrals within 36 hours [25–27]. In our study, 94% of referrals were assessed within a 24-hour timeframe by the CLP service. These referrals included some urgent mental health assessments seen within an hour. Referrals that were assessed in greater than 24-hours may have been due to weekend or public holiday periods, as the local CLP team only operates on weekdays, or due to a lack of available CLP team members. The ability to maintain the CLP service efficiency will be challenged as the number of referrals are anticipated to rise without an appropriate increase in CLP resource allocations. CLP services are a referral dependent service, and hence the time to respond to referrals are key. A positive relationship between timeliness of contact and LOS does exist in the domain of CLP, in that the LOS is significantly reduced with a timely referral to the CLP service, for both older and younger patients [2,11,28,29].

The age demographic with the highest referral rates were patients 60-79 years, and this showcases the challenges of an ageing population. The rapid trajectory of population aging may negatively impact CLP service provision in the future, as elderly patients have been associated with extensive LOS which could translate to increased CLP contacts and thus CLP resource usage [7,28]. In contrast, a study done internationally which analysed a rapid assessment model of practice in CLP showed that LOS was reduced in geriatric populations – however this could have been due to the presence of a well-staffed and well trained team [9]. International studies, specifically those in the United Kingdom have demonstrated gaps in the provision of service, which later translated into positive policy and funding changes [16]. On the other hand, a similar process has not yet been undertaken in Australia. Metropolitan services are often the first in line to benefit from structural and resource siphoning when it happens, which can obscure the dire needs of the CLP services in regional counterparts facing continued population growth and ageing populations.

Increased rurality is associated with an increase in the lack of staffing leading to suboptimal service provision [16,29]. The importance of mental health care in the general hospital system is receiving greater recognition by healthcare staff and key stakeholders, and the modification of standards such as the National Safety and Quality Health Service Standards reflect this [11,16]. However, with the ongoing trajectory in the rise of population numbers and specifically the ageing population numbers, regional and rural CLP services may find it increasingly difficult to achieve these standards, which could pose a difficulty in maintaining accreditation for the training of psychiatric registrars which are paramount in regional psychiatric service delivery [7]. Additionally, the Independent Hospital Pricing Authority recently found that co-morbid mental health conditions are not currently associated with increased payments to the hospital due to poor identification of inpatients [16]. Hence with the already evident and anticipated increased use of the CLP service, an enhancement of the service would lead to positive changes in mental healthcare recognition and payment schemes for hospitals – a symbiosis between CLP and the hospital administrators.

This study is not without its limitations. The liaison aspect was not officially evaluated in this study, as that would typically benefit from a more subjective analysis from a consumer's perspective, which may be difficult to quantify statistically except possibly through a satisfaction survey. Hence this evaluation alone should not be representative of the CLP's liaison aspect that it currently provides. Our study was subject to limitations related to retrospective study design. Furthermore, without a standardised Australian model for CLP service evaluation, this would pose as a barrier in accurately benchmarking services and identifying key knowledge gaps.

5. Conclusions

In conclusion, our study described and evaluated a regional Australian CLP service. The local CLP team currently operates with limited resource provision, and the sustainability of the service

will become challenged as the population continues to age without appropriate influx of resources. This study also emphasizes the importance of conducting a broad-based evaluations of CLP services. We believe our study findings contribute to future studies by providing a comprehensive method for evaluating other CLP services, with the goal of developing nationally accepted CLP benchmarks that are currently lacking.

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Conflicts of Interest: The authors declare no conflicts of interest.

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