



Pattern of Presentation and Treatment Outcomes among Patients Attending Psychotherapy Services in a Primary Health Care Centre in Belize

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Authors' contributions

This work was carried out in collaboration among all authors. Author OO conceived the development of the manuscript, analysed the data, drafted and finalised the manuscript. Author JS collected the data, edited the manuscript. Author AEB edited the manuscript. All authors read and approved the final manuscript.

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ABSTRACT

Aims: To determine the pattern of mental health presentation and outcomes among patients accessing psychotherapy services in a primary health care centre.

Study Design: This is a cross sectional descriptive study with mix qualitative and quantitative methods.

Methodology: The quantitative method used retrospective review of records of 157 new clients who accessed psychotherapy services between January 2022 and December 2023 at Port Loyola

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health centre in Belize city. The qualitative method used in-depth interviews of 20 patients randomly selected from the clinic registers. Factors associated with treatment outcomes (discharged/ dropped out) were determined using bivariate analysis with chi-square test and p value < 0.05 was considered statistically significant. The qualitative data was analysed using content analysis and the result organized into themes.

Results: Depressive episodes (51%) and anxiety disorder (33%) were the most frequent diagnosis. Most patients (40%) were referred by other health workers, followed by self-referral (20.5%). Sixty-nine (43.8%) of the clients were discharged [those who successfully completed planned psychotherapy intervention], 11(15%) still in the program, 45(28.8%) dropped out and 19(12.3 %) were referred for further mental health services. Discharge was significantly associated with increased age, number of follow up visits, diagnosis and being employed, while drop out was associated with low level of education. Confidence in the service providers, insight, stigma and socioeconomic factors also determined treatment outcomes.

Conclusion: The study supported the existing literature advocating for the integration of psychotherapy into primary health care identified as the most viable way of closing the treatment gap and ensuring that people get the mental health care they need.

Keywords: Pattern; presentation; treatment outcome; psychotherapy; primary health care centre.

1. INTRODUCTION

The World Health Organization's 2022 World mental health report estimates that approximately 13% of the world's population live with a mental disorder at any given time, with 15.6% of those affected residing in the WHO Region of the Americas [1]. Anxiety and Depressive Disorders were the most prevalent mental disorders, with rates of 31% and 28.9%, respectively. Early estimates indicate a significant increase in anxiety disorders (28%) and Depressive disorders (26%) resulting from the COVID-19 pandemic [1]. Mental health disorders have been reported to contribute significantly to reduced productivity, sickness absences, disability and unemployment, and the total costs of mental ill-health in many countries is very high [2]. Yet despite the potential to successfully treat mental disorders, only a small minority of those in need receive even the most basic treatment [1,2]. Integrating mental health services into primary care has been identified as the most viable way of closing the treatment gap and ensuring that people get the mental health care they need. Primary care for mental health has been found to be affordable, and the investments in the integration of mental health into primary care can bring important benefits [3]. Most of the individuals with psychiatric morbidity in the community are usually seen at the primary care level [4,5]. Many patients with common mental health disorders generally prefer psychological therapy to medication if possible [6]. However, many patients who would benefit from psychotherapy are unable to access it, often because of limited availability in public health

facilities or because of financial barriers when such services are provided singularly by private health facilities [6]. The functional and financial effects of untreated psychiatric disorders within primary care have led to the development of novel service delivery models to improve access to high-quality, evidence-based mental health treatments [7]. The integration of formal psychotherapeutic services into primary care has been reported to result in a 20% to 30% decrease in medical costs [6].

Belize's mental health program is described as community-based with most services delivered in mental health clinics situated in primary healthcare facilities, and within community hospitals. The country's primary health care (PHC) system is widely distributed and can be found in all district towns and outlying areas; however, the integration of the mental health component varies among districts [8]. In order to address the shortage of mental health practitioners in the country, training of psychiatric nurse practitioners (PNP) was introduced in 1991 and later the WHO mental health Gap Action Programme (mhGAP) was rolled out aimed at integrating mental health into primary health care. This has helped the country to make significant steps towards shifting from institutional to community-based care and has resulted in an increase in the availability and accessibility of mental health care [8]. This is similar to the strategy being employed in other countries in the same Latin and Central America region- Brazil, Honduras, Jamaica, Guatemala, Panama and Nicaragua, among others to improve community health services through

integration of mental health into primary health care [9].

Psychotherapy is one of the mental health services in the mental health program in Belize. However, access to psychotherapy services is very limited, especially in the public health facility due to the small numbers of psychotherapists in the country. Accurate figures for the prevalence of mental health disorders in Belize are unavailable since no epidemiological study on Mental Health has been conducted in the country [8].

Several studies have investigated the pattern of psychiatric referrals globally, but less is known about referral for psychotherapy services.

The study aimed to assess the pattern of mental health presentation and treatment outcomes and associated factors among patients accessing psychotherapy services in a primary health care centre in Belize city.

2. MATERIALS AND METHODS

2.1 Study Design

The study was cross-sectional, descriptive and used both quantitative and qualitative methods. The quantitative methods used retrospective review of records of 157 new clients who accessed psychotherapy services between January 2022 and December 2023 at Port Loyola health centre in Belize city. The qualitative method used in-depth interviews of 20 individuals who were randomly selected from the clinic records (10 who completed their treatment and 10 who dropped out). The two year period was selected because this was the period when health services in the study site were fully restored and functional post COVID-19 pandemic.

2.2 Study Population and Setting

The study was conducted at Port Loyola primary health centre, in the central health region located in Belize city, in Belize district. The city has estimated population of about 66,000 people and has three 3 primary health care centers (polyclinics) and a referral hospital. Mental health services are provided in the hospital and 2 of the primary health care centers including the study site. There are two psychiatrists, 6 psychiatry nurse practitioners and one clinical psychotherapist in the public health facilities in

the city [8]. There are however an estimated 25 psychotherapists in the private health facilities in the city. Psychotherapy sessions at the public health facilities are free unlike the private service providers where patients pay between 40-65 USD per session. The clinic provides various types of psychotherapy and mostly Cognitive Behavioural Therapy (CBT) depending on the patient's particular illness and circumstances and preference.

2.3 Data Collection and Statistical Analysis

The clinical records of the 157 patients seen at the clinic during the study period were reviewed. Data were extracted using a form designed by one of the authors to capture relevant information from the psychotherapist records of patients. The data included the followings:

1. Sociodemographic data including age, sex, marital status, level of education, employment status
2. The detailed clinical presentations - source of referral, diagnosis, duration of illness before presentation, follow up visits, treatment provided. The diagnosis was established according to International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10) classification [10]. The outcomes of the psychotherapy services studied were- discharge, loss to follow up, those still accessing service(on going) and referral to the PNP or psychiatrist for further services. A patient is discharged when the agreed treatment goal established between the psychotherapist and the client at the beginning of the process have been achieved.

The in-depth interview for the qualitative component of the study was done using a semi-structured interview guide conducted through phone calls. Thirty patients (fifteen who completed their treatment and fifteen who dropped out) were randomly selected from the clinic records. However, the first twenty patients (ten who completed their treatment and ten who were lost to follow up) who gave verbal consents after explaining the purpose of the study when contacted were interviewed. The interview guide was created, in the light of previous research, to identify the perception of the patients to mental illness, the barriers and motivation for either completing the follow up sessions or dropping out. The interviews were audiotaped and transcribed verbatim.

The data entry was done using EPI -data version 3.1 and analysis was done using SPSS software version 23. Analysis was done at univariate and bivariate levels. Univariate analysis findings were presented using frequency (n) and percentage (%) distribution tables. Association between outcome (discharge/ drop out) and selected sociodemographic characteristics and clinical variables, diagnosis, follow up visits were determined using bivariate analysis using chi-square test and *p* value < 0.05 was considered statistically significant. The qualitative data were analyzed using content analysis and the results organized into themes.

3. RESULTS AND DISCUSSION

3.1 Results

Section A: Sociodemographic profile and consultation characteristics of patients:

Table 1 shows the socio demographic profile of the patients with 52 (33%) of the 157 patients being less than 18 years and 63(40%) were between 18 and 35 years with age range of 6-58years and mean age of 25.81±11.44. A total of 102(64%) were female and 36(23%) had primary education and 68(43%) had tertiary education while 89(57%) were employed. Eighty-eight (56%) were single, 28(18%) were married,

22(14%) in civil union and 19(12%) were living separately from their spouses.

Table 2 shows the clinical characteristics and outcomes of the patients. The most frequent diagnosis was depressive episodes 80(51%) followed by anxiety disorder 52(33%) and childhood disorders, 12 (8.2%). One of the patients with a depressive episode was a post-partum woman which was the only reported case of pregnant or postpartum woman seen at the clinic during the study period. The duration of illness before presentation for medical care ranged from 1 week to 8 years with 63(40%) presenting less than one month of the onset of the illness, 22 (14%) presented between 1-6 months of onset and 41(26%) presented more than 24 months after the onset of the illness. The mean duration of illness before presentation was 8.12±16.9 months.

Thirty-two (20.5%) of the patients were self-referral, while 26(16.4%) were referred by family member mostly parents and friends, 63(40%) referred by other medical professional both mental health professional and other health professional from health facilities, 21(13.6%) were referral by their employers. One of the referrals among the health professionals was from a Nurse from the Maternal and child health unit of the clinic.

Table 1. Socio demographic profile of the patients (n= 157)

Age(years)	N(%)
<18	52(33)
18-35	63(40)
36-59	42 (27)
Means (SD)= 25.81±11.44	
Sex	
Male	55(36)
Female	102 (64)
Educational status	
primary	36(23)
secondary	53(34)
Tertiary	68(43)
Occupational status	
Unemployed	68(43)
Employed	89(57)
Marital status	
Single	88(56)
Married	28(18)
Civil union	22(14)
Separate	19(12)

Table 2. Clinical characteristics and outcomes of patients (n=157)

Diagnosis	Frequency n (%)
Depressive disorder	*80(51)
Anxiety disorder	52(33)
Schizophrenia	2(1.4)
Substance induced disorder	9(5.5)
Bipolar affective disorder	2(1.4)
childhood disorder	12 (8.2)
Source of referral	
Self	32(20.5)
Family/parents	26(16.4)
*Health professionals	63(40)
Employers	21(13.6)
Social workers	15(9.5)
Duration of illness before presentation	
<1month	63(40)
1-6month	22(14)
6month-11month	19 (12)
12-24months	12(8)
more than 24 months	41(26)
Mean(SD)= 8.12+16.9 months.	
Number of follow up visits	
1-2session	30(19)
3-5 session	78(50)
>6 sessions	49(31)
Mean(SD)= 3.41+2.54 sessions.	
Type of treatment provided	
CBT alone	111(71)
CBT with drugs	46(29)
Outcome	
Discharge	69(43.8)
Dropped out	45(28.8)
Ongoing	24(15.1)
Referred to other mental health professional	19 (12.3)

*One post-partum woman ** one nurse

A total of 30(19%) of the patients had 1 or 2 follow up sessions, while 78(50%) had between 3 and 5 follow up sessions and 49(31%) had 6 or more follow up session with range of 1 and 12 sessions and mean of 3.41+2.54 sessions.

One hundred and eleven (71%) patients were managed using Cognitive Behavioural therapy only while 46 (29%) had both Cognitive Behavioural therapy and medication provided.

A total of 69(43.8%) of the patients were discharged which occurred when the agreed goal established between the psychotherapist and the clients at the beginning of the process has been achieved while 45 (28.8%) dropped out before the completion of the psychotherapy plan. Among those who dropped out, 34(76%) dropped out before the first appointment following the initial first visit to the clinic. A total of

24 (15.1%) of the patients were still attending the clinic during the study period while 19(12.3%) were referred to either psychiatrist or psychiatry nurse practitioner for further mental health services.

3.2 Factors Associated with Successful Completion of Psychotherapy

Table 3 shows the results of bivariate analysis done using chi square test to assess sociodemographic and clinical characteristics that are associated discharge following successful psychotherapy consultations.

Successful outcome increased with age and statistically significant, $\chi^2=10.87$, $p=0.0043$. Nineteen 19(42%) among those less than 18 years completed their treatment compared to 26(58%) who didn't, while among those aged

between 36-59years, 26 (75%) completed treatment compared to 8(25%) who didn't. Likewise, more women were discharged compared with men though not statistically significant with 43 (63%) of women in the study discharged compared to 26(57%) of men who were discharged though not statistically significant. There was association between clinical diagnosis and discharge with discharge highest among those with anxiety disorder 42 (71%) compared to those with depressive disorder 17 (44%) and other disorders, $\chi^2 = 5.44$, $p=0.019$). Being employed, and the number of follow up sessions were associated with discharge. Forty-two (72%) among those who were employed were discharged compared to 19(43%) among those not employed ($\chi^2 = 10.425$, $p=0.0013$) Successful outcome increased with the number of follow up visits. Four (15%) among those who had 1-2 follow up session/visits were discharged while 28(72%) among those who had 3-5 follow up visits and 37(77%) of those who had six or more sessions were discharged, $\chi^2=31.11$, $p=0.006$.

Discharge was highest among patients with self-referral, 22(71%), followed by those referred by other health professional 28 (62%), then those referred by family/ friends mostly parents 9(57%) though not statistically significant.

In terms of treatment methods, discharge was higher among those treated with cognitive behavioral therapy (CBT) alone, 49(64%) compared to 20(53%) among those treated with cognitive behavioural therapy and medication, though not statistically significant.

3.3 Factors Associated with Dropout among Patients

Table 4 shows the results of bivariate analysis done using chi square test to assess sociodemographic and clinical characteristics that are associated with drop out among patients.

There was significant association between age and drop out/loss to follow up among the patients, $\chi^2=17.34$, $p=0.00017$. Twenty-six (50%) of patients among those less than 18 years dropped out compared to 11(17%) and 8(20%) among those 18-35 years and 36-59 years respectively. Likewise, the dropout rate decreased with increased level of education, 15(41%) among those with primary education dropped out compared to 19(36%) and 11(16%) among those with secondary and tertiary

education respectively and found to be statistically significant, $\chi^2=8.804$, $p=0.012$. Among the male patients seen, 19(35%) of them compared to 12(26%) among the female dropped out. Twenty-six (39%) among patients who were not employed compared to 19(21%) among patients who were employed dropped out and was found to be statistically significant, $\chi^2=7.74$, $p=0.0055$. Seventeen (38%) among patients treated with cognitive behavioral therapy with medications compared to 28(25%) among those treated with only cognitive behavioural therapy dropped out.

The result of the qualitative method to identify drop out and completion of treatment are organized in themes. Among those who completed their treatment the following themes emerged; adequate insight and confidence in the service providers, while among those who were lost to follow up the following themes emerged; lack of insight, socio-economic factor and stigma.

Theme 1: Insight which refers to the capability of psychiatric patients to recognize and accept that they are suffering from a mental illness was identified as a major factor identified to be responsible for compliance to treatment.

Among those who completed the follow up visit were quoted:'

'I am familiar with the process and my condition. I knew the benefits of the process. I felt good after each session, and I felt stronger too. Between the sessions, I continued to face my challenges and that also made me feel the need to show up. I needed to process things and I was given' [Female, 36 years]

'I had depression and I needed help to manage that. I liked the support, and I learned a lot about myself. Sometimes the depression comes back and sometimes I feel down but I know what caused it and how to manage it' [Female, 59years]

However, among those who dropped out from their treatment, demonstrated lack of insight. One of them was quoted:

'I did not believe that I need counselling. I only went because my employer strongly recommended it. I don't believe I have a problem' [Female, 47 years]

Table 3. Association between sociodemographic and clinical characteristics and successful completion of treatment

Successful completion of psychotherapy				
Age(years)	Yes (69) N(%)	*No (45) N(%)	chi- square (χ²)	p value
<18	19(42))	26(58)	10.87	*0.0043
18-35	24(69)	11(31)		
36-59	26(75)	8(25)		
Sex				
Male	26(57)	19(43)	0.235	0.629
Female	43 (63)	26(37)		
Level of education				
primary	28(65)	15(35)	0.803	0.668
Secondary	28 (59)	19(41)		
Tertiary	13(55)	11(45)		
Occupation				
Unemployed	19(43)	26(47)	10.425	**0.0013
Employed	50(72)	19(28)		
Marital status				
Single	41(78)	15(22)	4.38	0.23
Married	15(70)	11(30)		
Civil union	9(57)	13(43)		
Separate	4(67)	6(23)		
Diagnosis				
Depressive disorder	17(44)	21(56)	6.75	**0.019
Anxiety disorder	42(71)	17(29)		
Duration of illness before presentation				
<1month	24(55)	19(45)	2.96	0.57
1-6month	9(44)	11(56)		
6month-11month	6(60)	4(40)		
12-24months	12 (67)	7(33)		
more than 24 months	18(80)	4(20)		
Source of referral				
Self	22(71)	9(29)	6.28	0.178
Family/friends	9(57)	6(43)		
Health professionals	28(62)	17(38)		
Employer	6(60)	4(40)		
Social worker	4(33)	9(67)		
Number of follow up visits				
1-2session	4(15)	23(85)	31.1	**0.006
3-5 session	28(72)	11(28)		
>6 sessions	37(77)	11 (23)		
Treatment provided				
Cognitive Behavioral Therapy (CBT) alone	49(64)	28(36)	0.961	0.327
Cognitive Behavioral Therapy (CBT) with medications	20(53)	17(47)		

*excludes those referred and those with ongoing treatment ** p <0.05

Table 4. Factors associated with drop out among patients

Age(years)	Drop out		Chi- square((χ ²)	p value
	Yes (45) N (%)	*No (112) N(%)		
<18	26(50)	26(50)	17.344	*0.00017
18-35	11(17)	52(83)		
36-59	8(20)	34(80)		
Sex				
Male	19(35)	37(65)	1.18	0.277
Female	26(26)	75(74)		
Marital status				
Single	15(17)	73(83)	8.54	0.074
Married	11(38)	17(62)		
Civil union	13(60)	8(40)		
Separate	6(33)	14(67)		
Level of education				
No formal			8.804	*0.012
Primary	15(41)	22(59)		
Secondary	19(36)	34(64)		
Tertiary	11(16)	56(84)		
Occupation				
Unemployed	26(39)	41(61)	7.74	*0.0055
Formal employment	19(21)	71(79)		
Diagnosis				
Anxiety disorder	21(27)	58(73)	1.289	0.25
Depressive disorder	19(33)	34(67)		
Schizophrenia	0	2(100)		
Substance induced disorder	5(75)	2(25)		
Bipolar affective disorder	0	2(100)		
Childhood disorder	0	14(100)		
Duration of illness before presentation				
<1month	19(31)	43(69)	3.54	0.465
1-6month	11(50)	11(50)		
6month-11month	4(29)	15(71)		
12-24months	7(50)	6(50)		
more than 2 years	4(10)	37(90)		
Source of referral				
Self	9(27)	24(73)	3.26	0.52
Family/friend	6(25)	19(75)		
Health professionals	17(28)	45(72)		
Employer	4(20)	17(80)		
Social worker	9(57)	7(43)		
Treatment provided				
Cognitive Behavioral Therapy (CBT) alone	28(25)	84(75)	1.25	0.262
Cognitive Behavioral Therapy (CBT) with drugs	17(38)	28(62)		

*Included those with ongoing treatment and referred for further treatment

Theme 2: Confidence in the service provider was also identified as factor that promoted follow up visits.

Some of the patients who completed the treatment were quoted:

'The clinic helped me out and I was comfortable with my psychotherapist. I looked forward to my weekly hour of therapy. I am doing good most of the time and some days I feel like I need to come back but I am trying to push through.' [female, 52 years]

'I completed my counselling because I was comfortable doing it and talking to my psychotherapist. She listened to me and made me feel accepted. Our talks taught me a lot about myself'. [male, 33 years]

'I followed through with my therapy because I felt better after each session. That feeling kept me motivated to keep going and I learnt how to control my anxiety'[Female 25 years]

Theme 3: Stigma was identified as a barrier to patients from attending the required follow up sessions. One of the patients who dropped out was quoted:

'I couldn't handle it. I got the time off from work to get counselling but just going there was too hard for me. What would people say or think of me if they saw me going there...they will say I am crazy. I couldn't do it. But the one session was good. [male, 22years]

Theme 4: Socioeconomic factors were also reported as a barrier to completing treatment because of the concern of missing their work and fear of losing their jobs if taking too much excuse from work. One of the patients who dropped out was quoted:

' I enjoyed my sessions. I saw how it was helping me. I was helped through a very difficult time, and I know I was to continue but with my job I can't keep asking for time off so that is why I stopped. [male, 22 years]

'I did three sessions. I was unable to continue due to work. After that I was unable to get an appointment that was not conflicting with my work hours. So, I went somewhere else.' [male, 24years]

4. DISCUSSION

The study provided insight into the pattern of presentation and factors associated with discharge and loss to follow up among the patients seen at the clinic.

The most frequent diagnosis in the study was depressive episodes, 51% followed by anxiety disorder, 33% and childhood disorder, 8.2% and substance induced disorder, 5.5%. The prevalence of depression and anxiety were much higher than what has been reported in most of the previous studies. The review of the categories of mental health disorders recorded in the Belize Health Information System (BHIS) for 2018-2021 showed anxiety disorders (45%), depressive episodes (22%) and schizophrenia and related disorders (8%) [8]. The WHO 2022 world mental health report identified anxiety and depressive disorders as the most prevalent mental disorders, with rates of 31% and 28.9%, respectively [1]. A study in Jamaica among clinic outpatients reported approximately 30% of participants had moderate or severe depression symptoms and 18.6% had moderate or severe anxiety symptoms [11] while in a study in Peru among all outpatient visits for psychiatric disorders, those identified as anxiety/ depressive disorders represented approximately 6 out of 10 visits in women, and 4 out of 10 visits in men [12]. In studies done in Chile, Belgium and USA, the most prevalent mental disorders presenting in primary care settings are depression, 5% to 20%, generalized anxiety disorder, 4% to 15% , harmful alcohol use and dependence, 5% to 15%, and somatization disorders, 5% to 11% [13,14].

Among the patients in the study only one case of depression in a post-partum woman was seen over the study period. This suggests gaps in awareness and access to perinatal mental health in the study site or country at large. Even though there is no epidemiological data on burden of mental health among pregnant and post-partum women in Belize, data from other countries in the Central America region and beyond reported prevalence of depressive symptom of between 20 and 60% among pregnant and postpartum women [15,16]. Mental health disorders are associated with many poor outcomes for women's maternal and physical health and the emotional and cognitive development of infants and children during their sensitive growth periods [17,18,19]. Studies have indicated that detection, treatment, and referral of perinatal depression by

obstetrical providers are seriously lacking and need to be addressed [15,16]. Similarly, a study in UK reported that approximately half of women requiring perinatal mental health care do not receive treatment despite having routine contact with midwives and health visitors [17]. It noted that perinatal mental health service provision appeared less important to the midwives and health visitors' referral decision-making than how maternity/health visiting services were delivered [17]. The studies recommended incorporating screening for perinatal depression and referral service into the routine perinatal care so as to improve access to perinatal mental health services [15,16,17].

In the study, 43.8% of the patients were discharged following treatment which occurred when the agreed goal established between the psychotherapist and the clients at the beginning of the process has been achieved. This is higher than was reported in a study in Portugal where about 35% of participants had successfully completed the psychological intervention [18]. A review of psychological treatment for anxiety and depression over a period of two years between 2017-18 in UK found 50.8% of the patients recovered fully [19], while a study in Austria on predictors of successful referral by a psychotherapeutic outpatient unit and subsequent outcome of psychotherapy reported a success rate of 50-60% [20].

There was association between clinical diagnosis and discharge with discharge highest among those with anxiety disorder compared to those with depressive disorder in the study. This is similar to finding in a study in Portugal which reported positive association between consultations discharge by the psychologist and the diagnosis [18].

The number of follow up sessions were associated with discharge. This is similar to other studies which found greater number of consultations indicated greater probability of success in the intervention process. The average number of follow up sessions in this study was five sessions while the average number of consultations considered to ideal is between five and eight sessions [20,21].

Being employed was found to be associated with discharge, 72% of those who were employed were discharged compared to 43% among those not employed. This is similar to studies which reported association between successful

outcome and being employed and socio-economic status of the patients [22,23].

There was significant association between discharge and age where successful outcome increased with age, with 43% among those less than 18 years and 75% among those who were between 36-59 years. This is similar to other studies which found age to be a predictor of success of psychological intervention [18,24].

Discharge was highest among patient with self-referral, 71% followed by those referred by other health professional, 62% and those referred by family/ friends mostly parents, 57% though not statistically significant. This is unlike a study on effect of referral source on outcome with cognitive-behavior therapy self-help which found that referrals from general practitioner had the best outcome with psychotherapy for anxiety/depressive disorder and self-referral was reported to have the least treatment completers [25].

In terms of treatment methods, discharge was higher among those treated with cognitive behavioral therapy (CBT) alone 64% compared to 53% treated with cognitive behavioural therapy and medication, though not statistically significant. This is similar to findings in other studies including a review article which reported that psychotherapy is effective with or without medications and that adding medications does not significantly improve outcomes from psychotherapy alone [21,26].

Confidence in the services provider was one of the enabling factors that was reported in the study by patients who completed their treatment and were discharged. This is supported by studies which reported that the quality of care as well as rapport and interrelation between the psychiatric personnel and the patients have a marked effect on compliance with treatment, keeping follow-up appointments and utilize health services clinic attendance [27,28]. Similarly, a review article on the factors influencing dropout from individual psychotherapy reported therapeutic relationship to be essential to completion of treatment [29].

In the study, 28.8% of the patients dropped out before the completion of the psychotherapy plan. Among those who dropped out, 76% dropped out before the first appointment following the initial first visit to the clinic. This is similar to a study in US which reported over 70% of all dropouts from

outpatient mental health care occurred after the first or second visits [30]. The dropout rate is lower than findings from previous studies which reported dropout rate of between 32.6% and 60% [31,32].

There was significant association between age and drop out/loss to follow up in the study with 50% of patients among those less than 18 years dropped out compared to 17% and 20% among those 18-35 years and 36-59 years respectively. This is similar to other studies which found association between younger age and drop out [23,32]. The drop out among children under 18 may be due to various reasons including parental factors. Previous studies have shown that parents are highly influential in their children help-seeking and service use for mental health [33,34]. The emotional and physical availability of parents and trusted and strong relationships with parents and parents knowledge of their children mental health problem have been highlighted as facilitators for adolescent help-seeking [34,35,36]. Even though parents have been reported to highly influential roles in their child's mental health help-seeking, their role may not always be positive. Factors such as parent perceived barriers to care, parent mental health beliefs (such as the believing that child emotional and behavioural difficulties are intentional) and limited parent problem recognition can prevent or delay children and adolescents from accessing services for mental health [35,37,38].

Drop out was found to be more among those unemployed with 39% of patients who were not employed compared to 21% of patients employed dropped out and found to be statistically significant. This is similar to the findings in other studies in Spain and Nigeria which reported association between dropout and unemployment and low socioeconomic status have [22,23].

In the study, 35% of male compared to 26% of female dropped out similar to other studies which found male gender to be associated with drop out/loss to follow up [23,32]. Studies have reported that while men are less likely to access therapy in the first place, when they do, they are also often more likely to attend fewer sessions and drop out from therapy compared with women, limiting the efficacy of therapy [39,40].

Some of the reasons found to be attributed to drop out among male include a sense of emasculation (i.e., that presenting to therapy

made them feel like "less of a man"), lack of connection or understanding with their therapist [41,42]. The studies suggested the importance of therapists' capacity to effectively implement male-specific adaptations to therapy, alongside accommodating men's unique experiences of mental ill health as a potential extension of their experience of masculinity [41,42]. Studies have emphasized the importance of appropriate awareness and training, without which therapists may be unaware of their beliefs and biases about men's mental health and become complicit in reinforcing rigid and unhelpful stereotypes about male emotionality or help-seeking [43,44].

Insight which refers to the capability of psychiatric patients to recognize and accept that they are suffering from a mental illness was identified as a major factor identified to be responsible for compliance to treatment. This is similar to a finding in a systematic review which reported lack of insight as a predictor of non-adherence to treatment program among patients studied [45].

In this study, level of education was found to be associated with drop out among the patient, with drop out being highest among those with primary level of education and reduced with increased level of education. Education and awareness are essential to degree of insight among patients with mental health disorders. Similarly, a study reported low education to be associated with elevated odds of dropout from treatment with mental health professionals [30].

Stigma was identified as a major barrier for completing follow up section during the in-depth interview in the study. Similarly, stigma has been found in various reviews to lead to the underutilization of mental health services and negative impact on help-seeking in studies from Latin America and the Caribbean [46,47]. In the Caribbean traditionally, poor mental health and expressing emotions has broadly been culturally and socially stigmatized, associated with shame, personal weakness, and a lack of commitment to God, which acts as a barrier to seeking mental health support [47].

5. CONCLUSION

The study supported the existing literature advocating for the integration of psychotherapy into primary health care identified as the most viable way of closing the treatment gap and ensuring that people get the mental health care

they need. However, there is limited utilization of services by pregnant and postpartum mothers which suggests gaps in awareness and access to perinatal mental health. Implementation of appropriate awareness, education and social behavioural change program and use of computerized Cognitive Behavioural Therapy (cCBT) will be helpful in improving utilization of services.

6. LIMITATION OF THE STUDY

This study is based on clinic records and subject to the limitations associated with studies utilizing routine data. The findings from the study are from data from a clinic and the results may not be generalizable to other psychiatric outpatient population. However, the use of both quantitative and qualitative methods provided a more comprehensive and nuanced understanding of the factors that determine the treatment outcomes. This is the first study in Belize on this topic and the findings provide relevant information that can be used to develop tailored strategy to improve quality of mental health services and improve on treatment outcomes among patients.

7. RECOMMENDATION

Realizing the role of parents in help seeking and service use for mental health by their children, there is need for appropriate strategy to engage them in the care of their children to improve on completion of treatment.

Incorporating screening for perinatal depression and referral service into the routine perinatal care is essential to improving access to perinatal mental health services at primary health care level.

Belize has abolished users' fees in all public health institution and also expanding the coverage of the National Health Insurance (NHI) scheme to improve access to primary health services and achievement of universal health coverage. There is need to include psychotherapy in the package of essential primary health care services for the NHI scheme and in all public health institution, which will strengthen integration of mental health including perinatal mental health into primary health care services and close the treatment gap and ensure that people get the mental health care they need.

CONSENT

Only the patients who gave verbal consents after explaining the purpose of the study when contacted were interviewed for the qualitative part of the study.

ETHICAL APPROVAL

Approval for the use of the clinic data was provided

COMPETING INTERESTS

Authors have declared that no competing interests exist.

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