Sociocultural Factors Associated with Caregiver-Psychiatrist Relationship in Taiwan

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Objective Research on sociocultural factors associated caregiver-provider relationship is needed to enhance family involvement in psychiatric care. This study examines from the caregiver’s perspective the associations of schizophrenia attributions, stigmatization, and caregiving experiences with caregiver-psychiatrist working relationship in Taiwan.

Methods This cross-sectional study used a convenience sample of 152 Taiwanese family caregivers of persons diagnosed with schizophrenia, recruited from a grassroots organization, 4 community mental health rehabilitation centers and 2 psychiatric hospitals between July 2012 and March 2013. Multiple linear regression models were used for analysis.

Results Biological attribution was positively associated with perceived family collaboration, and so was environmental attribution with perceived informational support. Internalized stigma was negatively associated with perceived family collaboration. Caregiving rewards were positively related to both perceived family collaboration and informational support, and so was experience of problems with services to perceived family collaboration.

Conclusion The examination of family perceptions informs Western psychiatric care providers of the importance of culturally sensitive practices in developing an effective working relationship with family caregivers, particularly in regards to caregivers’ casual attributions, impact of stigma, and caregiving experiences.

Key Words Attribution, Stigma, Caregiving experience, Caregiver-provider relationship, Western psychiatry.

INTRODUCTION

Family caregivers remain an important source of care and support for people with severe mental illness in various cultural contexts.¹² In Taiwan, there were 117,414 people with severe mental illness on the national registry³ and 83% of them lived with their family.⁴ Hospitals are the primary source of psychiatric care and emergency care, while community rehabilitation programs are lacking.⁵ Families continue to shoulder daily caregiving responsibilities and therefore could greatly benefit from effective caregiver-provider relationships.

Since the US family movement in the 70s, caregiver-provider relationship, focusing on the nature and quality of provider interactions with caregivers, has become a significant dimension in psychiatric care.⁶ Involving families in the provision of psychiatric care benefits both persons with mental illness and family caregivers. Education from and collaboration with mental health providers are of great importance to caregiving families.⁷ Eight Information about mental illness etiology and treatment, coping strategies, emotional support, community resources, respite care, and advocacy is essential.⁸ Structured supportive family education that provides illness information and coping strategies shows some evidence of increased knowledge and reduced burden for family caregivers.⁹ Chinese caregivers also benefited from family education as evidenced by significant increase in self-efficacy over a twelve-month period.¹⁰ It is thus consequential to enhance mental health providers’ capacity to collaborate with family caregivers.

Co-existing with Chinese medicine and folk healing, Western psychiatry over the past decades has emerged as the primary psychiatric treatment paradigm in Taiwan. Yet little research explored caregiver-provider working relationships. In a context of plural mental health beliefs, we are interested in how caregivers’ perception of working relationship might be shaped...
by their experiences with sociocultural factors and day-to-day caregiving for a family member with schizophrenia. Schizophrenia is difficult to understand and arguably one of the most stigmatized mental illnesses, which creates great challenges to caregivers. We focus on caregivers' mental illness attributions, mental illness stigmatization, and caregiving experiences that are entrenched in the sociocultural context and their associations with perceived working relationship with psychiatrists. Below we will first review the literature and then propose the theoretical framework to guide our study.

**Mental illness attributions**

Causal attribution of mental illness is informed by individuals' exposures to different types of mental illness etiology and sociocultural context. In Taiwan, most caregivers believed that psychosocial factors (61.2%) were the causes of mental illness, followed by biological factors (19.0%) and supernatural factors (15.7%). Approximately 40% of people with schizophrenia and their families believed that the cause of schizophrenia was related to the supernatural phenomenon.

Caregivers' attribution may dictate their pathways of help-seeking. Family caregivers who believed in destiny and supernatural causes tended to first seek help from faith healers. Beliefs in supernatural causes might delay or eliminate help-seeking from psychiatric treatment. Research has yet to fully examine the relationship between mental illness attribution and family-provider relationship while their relative was in care. Marshall and colleagues in a cross-sectional study focusing on mental illness attribution found that families were more likely to hold family causation beliefs when they had negative working experience with providers, although their beliefs in the biological causation were not associated with working experience. They suggested that families' feelings of self-blame might be reinforced by negative provider experience. Due to the correlational nature of the evidence, it is likely that families' beliefs in family causation prevent them from experiencing positive collaboration with providers.

**Mental illness stigma**

Mental illness stigma and discrimination toward people with mental illness are also experienced by family caregivers. Studies identified that the majority of families felt devalued and stigmatized due to their relative's mental illness. Experience of isolation and avoidance was common as a result of stigma and discrimination in all aspects of life.

Research also documented that family caregivers likely internalize discriminatory attitudes toward themselves and suffer from self-stigma. Studies found that half of the participating caregivers reported feelings of guilt or self-blame. Self-stigma was associated with secrecy, low self-esteem, social withdrawal, and psychological distress.

In the Chinese context families are easily subjected to both perceived and internalized stigma. Culturally, preserving “face,” a metaphoric representation of dignity, is a fundamental responsibility of individuals to sustain their family's social standing. However, mental illness was stereotyped as unpredictable and dangerous and having a mental illness was often associated with debilitating capacity to fulfill expectations of adulthood and to achieve full moral standing. Thus having a relative with mental illness could dishonor the family name and engender shame for family caregivers. Shame might be further compounded by feelings of guilt and self-blame, especially for parents.

Both perceived and internalized stigma may have impact on experiences with caregiver-provider relationship. Family caregivers are critical in facilitating help-seeking and adherence to treatments but they were often deterred by fear of exposure to stigma and blame from providers, friends, or other family members. A study revealed that persons with mental illness and family members felt that they were often not listened to, not informed, and not taken into account in the decision-making process regarding treatment, which was experienced as a form of discrimination.

**Caregiving experience**

In addition to impact of mental illness stigma, caregiving for a relative with mental illness oftentimes involves profound changes in every aspect of personal life. Donnelly identified the theme “dancing with the rhythms of symptoms” to describe caregivers' constant struggle with managing unusual behaviors, mood fluctuations, and recurrent psychotic symptoms. Impact of these difficulties was often pervasive, and caregivers' life style might be dominated by mental illness. Donnelly for a relative with mental illness could dishonor the family name and engender shame for family caregivers. Thus having a relative with mental illness could dishonor the family name and engender shame for family caregivers. Shame might be further compounded by feelings of guilt and self-blame, especially for parents.

Moreover, economic constraints and financial demands were also significant. Thus far, research has mixed findings on the relation between caregiving burden and professional support. A review showed that perceived sufficiency of professional support and receiving provider-afforded behavior management advice were associated with decreased objective burden, but not overall burden. The combined instrumental and affective dimensions of professional support were not related to objective burden.

Conversely, caregiving may be a positive experience. Research found that rewards of caregiving might be prevalent.
In Chinese societies, religious beliefs such as Buddhism and cultural norms of family obligation might contribute to positive appraisal of family caregiving experiences. Social support may also foster caregivers’ positive experience with caregiving. Perceived social support might mediate the relationship between the meaning of caregiving and caregivers’ level of depression. Specifically, support via mental health professionals’ sharing of information and collaborative interactions with family caregivers was associated with experience of caregiving gains. Research thus far has focused on how provider support influences caregiving experiences, and these cross-sectional studies provide evidence of associations. Likely positive caregiving experiences prompt caregivers’ openness to work more closely with mental health professionals.

Study framework

Our ultimate goal of this research is to help providers of Western psychiatry understand family caregivers’ perspectives in order to inform culturally sensitive practices and to enhance collaboration with family caregivers. Therefore, we focus on caregivers’ appraisal of working relationship and their experiences with sociocultural influences and day-to-day caregiving on their appraisal. Similar effort has been conducted on cultural determinants of help seeking, a model to ensure family collaboration once in care is an important step to follow. Our study represents a preliminary effort to explore sociocultural factors associated with caregiver-provider relationship.

As shown in Figure 1, this study examines associations of schizophrenia attributions, stigmatization, and caregiving experiences with family-psychiatrist relationship. As informed by the literature, we anticipate that caregivers’ endorsement of different types of attribution to schizophrenia has varied associations with experiences with family-psychiatrist relationship, operationalized by perceived family collaboration and informational support. Also we hypothesize that perceived stigma and internalized stigma are associated with perceived family collaboration and informational support. Finally, we expect that caregiving experiences, including experiences of problems with services, caregiving burdens, and caregiving rewards are associated with perceived family collaboration and perceived informational support.

We also include religious affiliation, household income, education, marital status, and perceived health as covariates in analysis based on literature review. Religious affiliation was found to be associated with mental illness attribution, mental illness stigma, and caregiving experience. Moreover, sociodemographic status, social support, and physical health were found to be associated with caregiving experiences. We used household income and education as proxy for sociodemographic status, marital status as proxy for social support, and perceived overall health as proxy for physical health.

METHODS

This cross-sectional study used a non-probability, convenience sample of caregivers whose relatives were diagnosed with schizophrenia in Taiwan. This research conformed to the Helsinki Declaration of 1975, as revised in 2000. The research protocol was approved by the institutional review boards at the collaborating study sites. Authors claimed no conflict of interest.

Recruitment and participants

Participants were referred to the study by senior mental health professionals from The Alliance for the Mentally Ill of R. O. C., Taiwan (TAMI), four community mental health rehabilitation centres (Zhu-Mong, De-Yang, Hsin-Hsin, and Hsing-Chiao) and two psychiatric hospitals (Kai-Shun and LaAn) between July 2012 and March 2013. To be eligible, individuals had to be 20 years old or older caring for a relative diagnosed with schizophrenia by a licensed Taiwanese psychiatrist using the criteria set forth in the Diagnostic and Statistical Manual of Mental Disorders, the 4th edition. Two hundred family caregivers were referred and informed about the study orally and in writing by the researchers. Among them, 152 caregivers provided informed written consent and completed the questionnaire. Forty-eight individuals either declined the invitation or had largely incomplete data, resulting in a response rate of 76%. Verified with G*Power version 3.0.10, this sample of 152 participants was able to detect an effect size of 15% increase in adjusted R-squares for the two regression models with adequate power of 0.84, when we included 14 predictors and set the alpha level to 0.0167 to adjust for the three main hypotheses we had on attribution, stigma, and caregiving experience.

Figure 1. Study framework.
Data collection
A Chinese self-report questionnaire was administered to participants with the assistance of a trained clinical staff member or the researchers. The participants were informed that their answers were confidential, that participation was voluntary, and that their personal data would only be seen by the researchers, who would report them in an aggregate form.

The questionnaire contained five scales: Family Collaboration Scale (FCS), Information and Advice Scale (IAS), Schizophrenia Attribution Scale (SAS), Devaluation of Consumer Families Scale (DCFS) and Experience of Caregiving Inventory (ECI). We adopted Chinese versions of DCFS and had FCS, IAS, SAS, ECI, and questions of participant background characteristics translated and back-translated between English and Chinese by the research team. Prior to data collection, the whole instrument was reviewed by the research team and Taiwanese mental health professionals to make final adjustments to meet the local use of language.

Measurement
The dependent variables, perceived family collaboration and perceived informational support, were measured by FCS and IAS, respectively. For independent variables, we used SAS to measure casual attribution, DCFS and the stigma subscale in ECI to measure perceived and internalized stigma, respectively. We used the other 9 subscales of ECI to measure the experience of caregiving including problems with services, burdens, and rewards.

Family Collaboration Scale
FCS is a four-item scale developed by Greenberg et al. Participants were asked to respond to the items measuring the degree to which the psychiatrist with whom they most recently worked engaged the family as collaborators in the treatment process. The items are: 1) the staff seeks the family’s opinions about the mentally ill family’s situation; 2) the staff is willing to disclose information about the family about their relative’s condition; 3) the staff keeps the family informed about their relative’s treatment; and 4) the staff makes the family feel that they have something valuable to contribute to their relative’s treatment. Participants indicated their level of agreement to each statement, ranging from strongly disagree (1) to strongly agree (4). Individual items were summed to obtain a family collaboration score. Scores ranged from 4 to 16 with a mean of 12.40 (SD=1.92). The Cronbach’s alpha was 0.74 based on a sample of 867 participants in the United States. The Cronbach’s alpha of the Chinese version of FCS in this study was 0.91.

Information and Advice Scale
IAS is a five-item scale developed by Greenberg et al. Participants were asked to respond to the items based on the information they received from the psychiatrist with whom they most recently worked. Participants indicated on a 4-point Likert scale (1=none to 4=a lot) the amount of information that they received from the psychiatrist regarding 5 types of information: 1) the causes, 2) medication, 3) community resources, 4) practical advice about how to cope with their mental illness, and 5) practical help in coping with their mental illness. Individual items were summed to obtain an informational support score. Scores ranged from 5 to 20 with a mean of 14.09 (SD=3.35). The Cronbach’s alpha was 0.73 based on the sample in the study by Greenberg and colleagues. The Cronbach’s alpha of the Chinese version of IAS in this study was 0.82.

Schizophrenia Attribution Scale
SAS is a 19-item scale created by the researchers. We modified attribution scales used in the studies by Phillip et al. and Pirutinsky et al. based on cultural knowledge. Participants responded to the items using a 4-point Likert scale (1=very unlikely to 4=very likely) to indicate how likely they perceived those items to be causes of their relative’s mental health condition. We conducted principal components factor analysis and identified 4 types of attribution: destiny, physical, environmental, and biological attributions. Five items (e.g., bad character and disharmony with the environment) were dropped due to poor loadings. The destiny attribution included 7 items (e.g., karma and debt to be repaid from past lives). Scores of this type of attribution ranged from 7 to 25 with a mean of 13.93 (SD=4.73). The Cronbach’s alpha was 0.91. The physical attribution included 3 items (physical injury, organ diseases, and problems during pregnancy and birth). Scores of this type of attribution ranged from 3 to 12 with a mean of 5.93 (SD=2.12). The Cronbach’s alpha was 0.77. The environmental attribution included 2 items (upbringing and stressful circumstances in his/her life). Scores of this type of attribution ranged from 2 to 8 with a mean of 5.46 (SD=1.35). The Cronbach’s alpha was 0.47. Finally, the biological attribution included 2 items (chemical imbalance and brain injury). Scores of this type of attribution ranged from 2 to 8 with a mean of 5.57 (SD=1.45). The Cronbach’s alpha was 0.59.

Devaluation of Consumer Families Scale
DCFS measures caregivers’ perceived mental illness stigma. We adopted the Chinese version of DCFS, an 8-item scale combining the 7 items from the study by Struening et al. and an additional item to address the cultural concern of losing face. Items assess participants’ perception of family-focused stigma, such as “Most people look down on families that have a member who is mentally ill living with them.” Participants rated their levels of agreement to these statements using a
4-point scale (1=strongly disagree to 4= strongly agree). Ratings were summed for an overall perceived stigma score. Scores ranged from 8 to 31 with a mean of 19.56 (SD=3.36). The Cronbach’s alpha of the original seven-item scale was 0.71 in the study by Struening et al. The Cronbach’s alpha in this study was 0.80.

Experience of Caregiving Inventory
Szmukler and colleagues’ Experience of Caregiving Inventory was employed to assess participants’ caregiving experiences. The inventory has a total of 66 items, categorized into 10 subscales. Participants indicated their responses using a 5-point scale, ranging from never (0), to almost always (4). The Cronbach’s alphas of the 10 subscales ranged from 0.74 to 0.91. In this study, we designated the stigma subscale as the measure of internalized stigma. The stigma subscale has 5 items such as “feeling unable to have visitors at home.” Scores of this subscale ranged from 0 to 17 with a mean of 5.78 (SD=4.03). The Cronbach’s alpha was 0.76. We devised three measures of caregiving experience, including problems with services subscale, burdens, and rewards. The problems with service subscale has 8 items, including “finding out how hospitals or mental health services work.” Scores of this subscale ranged from 0 to 28 with a mean of 9.38 (SD=5.0). The Cronbach’s alpha was 0.72. The measure of burdens combined difficult behaviors, negative symptoms, effects on the family, need to backup, dependency and loss subscales, with 39 items in total. Example items included: “has difficulty looking after money” and “the illness causing a family breakup.” Scores of this measure ranged from 4 to 135 with a mean of 50.17 (SD=23.64). The Cronbach’s alpha was 0.93. The measure of rewards combined positive personal experiences and good aspects of the relationship subscales, with 14 items in total. An example item is “I have learnt more about myself.” Scores of this measure ranged from 3 to 53 with a mean of 27.09 (SD=9.91). The Cronbach’s alpha was 0.88.

Analysis
Descriptive analyses were conducted to describe the sample and variables. Two multiple linear regression models were constructed to analyze the associations of attributions, perceived and internalized stigma, and the 3 aspects of caregiving experience with perceived family collaboration and informational support by controlling the aforementioned covariates. Variation inflation factor was used to evaluate multicollinearity. All statistical operations were performed using SPSS 22.0.

RESULTS
Sample characteristics
Among the 152 participants 62% of them were female. The mean age of participants was 54.38 (SD=11.7) years. Among them, 71.8% were married or cohabited, 68.6% held at least a senior high school diploma, and 25.5% lived in a low-income household. At the time of study, 46.4% were employed, and the rest were unemployed or retired. In regards to religious affiliations, the majority (81.9%) believed in an eastern religion (e.g., Buddhism and Taoism). About half of the participants (52.7%) perceived themselves as being in fair health condition and 39.3% in good or better health condition. The 47 participants recruited from TAMI had no statistically significant difference in any of the characteristics and tested variables when compared with their counterpart.

According to participants’ report, slightly less than one-fifth (18.7%) of the associated ill relative had never had psychiatric hospitalization and lightly over one-fifth (22%) had been hospitalized more than five times. In addition, about two-fifth (42.1%) of the associated ill relatives regularly took medication, and the rest had discontinued their medication with various durations.

Pairwise correlation analysis
Table 1 shows the pairwise correlations of the variables under investigation. The correlation coefficients ranged from -0.254 to 0.61, representing a moderate or lower level of correlation.

Multiple linear regression analyses
Table 2 shows the results of the two linear regression models. First, higher levels of perceived family collaboration were associated with higher levels of biological attribution (β=0.24, p<0.05), lower levels of internalized stigma (β=−0.32, p<0.01), higher levels of problems with services (β=0.22, p<0.05) and higher levels of rewards from caregiving experience (β=0.28, p<0.01). The full model on perceived family collaboration was statistically significant (F=3.12, adjusted R²=0.19, p<0.001). Second, higher levels of perceived informational support were associated with higher levels of environmental attribution (β=0.26, p<0.01) and higher levels of rewards from caregiving experience (β=0.21, p<0.05). The full model on perceived informational support was statistically significant (F=3.3, adjusted R²=0.20, p<0.001).

DISCUSSION
Results showed that participants’ perceived family collaboration with, and perceived informational support from, psychiatrists were not related to their characteristics under investigation, but were variably associated with attributions, stigma, and caregiving experiences. Unlike prior research finding no association, our finding suggested that biological attribu-
tion of schizophrenia was associated with higher levels of perceived family collaboration. This finding may indicate a promising effect on caregivers' collaboration with psychiatrists if there is a match between caregivers' mental illness attribution and the type of care in which they are involved. Moreover, our findings indicated that environmental attribution had a positive association with perceived informational support. Believing in environmental causes, such as stress from military service, school bullying, and divorced, and upbringing experiences with rigid parenting and sibling rivalry, may better justify for caregivers that schizophrenia was a resultant "breakdown," much like other diseases, which allowed them to be more open to information and advice afforded by psychiatrists in order to treat this illness. Our study did not identify significant associations of destiny or physical attributions with perceived family collaboration with and informational support from psychiatrists.

Table 1. Pairwise correlations of variables under investigation

| Variables | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|
| 1. Family collaboration | 1 | 0.484* | -0.064 | 0.070 | -0.005 | 0.036 | 0.062 | -0.045 | 0.036 | 0.140 | 0.152 | -0.157 | -0.123 | 0.213* | 0.109 | 0.367* |
| 2. Informational support | 1 | -0.066 | 0.005 | 0.117 | 0.014 | 0.113 | -0.123 | -0.035 | 0.224* | 0.127 | -0.195* | 0.040 | 0.255* | 0.138 | 0.320* |
| 3. Religious affiliation | 1 | -0.013 | 0.173* | -0.089 | 0.046 | -0.254* | -0.092 | -0.124 | -0.003 | 0.107 | -0.015 | 0.021 | -0.022 | -0.132 |
| 4. Household income | 1 | 0.429* | 0.280* | 0.196* | -0.004 | 0.093 | 0.146 | 0.021 | 0.006 | -0.039 | -0.086 | -0.007 | 0.061 |
| 5. Education | 1 | -0.070 | 0.222* | -0.153 | 0.072 | 0.060 | 0.194* | 0.057 | 0.086 | 0.040 | 0.035 | -0.111 |
| 6. Marital status | 1 | 0.008 | 0.020 | -0.007 | -0.005 | -0.069 | -0.023 | 0.013 | -0.120 | 0.020 | -0.004 |
| 7. Perceived health | 1 | -0.034 | -0.091 | -0.082 | -0.134 | -0.116 | -0.087 | 0.043 | -0.069 | 0.226* |
| 8. Destiny attribution | 1 | 0.446* | 0.223* | 0.244* | 0.210* | 0.230* | 0.085 | 0.220* | -0.186* |
| 9. Physical causes | 1 | 0.371* | 0.485* | 0.252* | 0.022 | 0.026 | 0.080 | -0.031 |
| 10. Environmental causes | 1 | 0.303* | 0.158 | 0.113 | 0.082 | 0.210* | 0.062 |
| 11. Biological causes | 1 | 0.141 | 0.181* | 0.096 | 0.207* | -0.009 |
| 12. Perceived stigma | 1 | 0.376* | 0.098 | 0.262* | -0.140 |
| 13. Internalized stigma | 1 | 0.473* | 0.610* | 0.045 |
| 14. Problems with services | 1 | 0.584* | 0.295* |
| 15. Burdens | 1 | 0.172* |
| 16. Rewards | 1 | 1 |

*correlation is significant at the 0.05 level (2-tailed), †correlation is significant at the 0.01 level (2-tailed)

Table 2. Association of attribution, stigmatization, and caregiving experience with perceived family collaboration and informational support

| Independent variables | Family collaboration | Informational support |
|------------------------|----------------------|-----------------------|
| Religious affiliation  | -0.03                | -0.18                 |
| Household income       | 0.08                 | -0.09                 |
| Education              | -0.02                | 0.09                  |
| Marital status         | 0.03                 | 0.04                  |
| Perceived health       | -0.01                | 0.07                  |
| Destiny attribution    | -0.16                | -0.08                 |
| Physical causes        | 0.24                 | -0.06                 |
| Environmental causes   | 0.26                 | 0.08                  |
| Biological causes      | -0.06                | 0.03                  |
| Perceived stigma       | 0.06                 | -0.18                 |
| Internalized stigma    | -0.32**              | 0.12                  |
| Problems with services | 0.27*                | -0.16                 |
| Burdens                | 0.12                 | -0.10                 |
| Rewards                | 0.07                 | 0.04                  |
| | 0.09                 | 0.04                  |
| | 0.07                 | 0.04                  |
| | 0.09                 | 0.04                  |
| | 0.07                 | 0.04                  |
| | 0.09                 | 0.04                  |

R²: 0.28, Adjusted R²: 0.19, F-value: 3.12***, p<0.001

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Miller. Caregivers who are shamed by a relative with mental illness might want to hide themselves from others and this attempt of avoidance may impede caregivers’ readiness to develop collaboration with providers.

However, perceived stigma was not found to be associated with perceived family collaboration, contrary to prior research findings. It is likely that the scale items addressed caregivers’ perceptions of general community members, rather than the psychiatrists, attitudes toward families, so they were not able to detect association with perceived family collaboration. Moreover, perceived stigma and internalized stigma were not associated with perceived informational support. The lack of association might be due to our focus on caregivers’ perception of the amount of received information from psychiatrists, rather than caregivers’ action in seeking information from psychiatrists, which might be more likely to be influenced by experiences of stigma.

Finally, we found positive associations of caregiving rewards with both perceived family collaboration and informational support. This finding resonates with the research conducted by Chen and Greenberg. Significantly, these two studies show that in both the cultural contexts of Taiwan and the US positive caregiving experience and perceived family collaboration are positively correlated. Experiences of problems with services also had a positive association with family collaboration. Possibly caregivers who had capacity of voicing issues with services might also tend to take initiative in engaging psychiatrists. Alternatively, caregivers who experienced better collaboration with psychiatrists might feel more comfortable in voicing concerns with services. Burdens, conversely, were not found to be associated with perceived family collaboration or informational support. This finding corresponds to a prior review by Baronet.

Practice implications

Although our study focused solely on family caregivers’ perceptions on their working relationship with psychiatrists, the findings may have implications to the practice of Western psychiatric care providers in general. Findings of our study point to the significance of understanding caregivers’ attribution of their relative’s mental illness so that providers may use appropriate approaches to engaging caregivers. For example, Western psychiatric care providers may build upon caregivers’ biological attribution and further their assistance and support for caregivers. For caregivers who believe in environmental attributions of schizophrenia, providers may adopt an empathic approach and demonstrate acceptance of caregivers to build a relational foundation. In time providers may reframe causal attributions for caregivers while introducing illness knowledge and resources in more approachable manners in order to help caregivers manage care for the ill relative.

Our findings show that internalized stigma is a strong barrier for caregivers to experience collaboration with providers. Providers’ ability to recognize and help to combat caregivers’ self-stigma is essential. In addition to provider-afforded education and consultation about internalized stigma, resources such as Anti-stigma Intervention and In Our Own Voice-Family Companion also demonstrate effects in lowering internalized stigma and empower caregivers with strategies to counter effects of stigma.

More importantly, to facilitate caregivers’ engagement, providers need to be critical of ways through which they may contribute to caregivers’ internalized stigma. Providers need to take initiative to examine their practices that may sustain biases against caregivers or allow providers to hold onto power and resources, rather than share them with caregivers. Research found providers’ beliefs in family causation was significantly associated with fewer provider-family contact, and negative attitudes toward family members of people with mental illness were related to perceived barriers to working with families. Martin and Johnson indicated that 72% of respondents from multiple stakeholder groups believed that mental health providers should be targeted to change discriminatory attitudes and behaviors. Proper training on working with families might lead to more services provided to family, more positive attitudes toward family, and increased perceived competence about their knowledge of effective treatment for families.

Finally, caregiver-provider relationship had a positive association with caregiving rewards. This result suggests the importance of providers’ capacity to take initiative to better understand all aspects of caregiving experiences so that providers may more effectively support caregivers to cope and manage the impact of mental illness. Adopting narrative approaches helps to develop this holistic understanding. Narratives are culturally congruent and help to illustrate the psychosocial context of caregiving experiences, which provides rich insights to the feelings and meanings of caregiving. In-depth knowledge of caregiving experiences may help providers better engage families and their appreciation of caregiving experiences may become a source of empowerment.

Study limitation and future study

Our study has several limitations. First, findings had limited generalizability because of a non-probability, convenience sample. Second, the cross-sectional design was not intended to test causal relations between caregiver-physician relationship and attribution, stigma, or caregiving experiences. Rather, it was to identify a model of associations among those factors. Third, participants’ responses heavily relied on recall of past experiences, which might affect data accuracy.
several measures of likely relevance to the caregiver-psychiatrist relationship were absent in this study. For example, length and frequency of contact with the identified psychiatrist, length of the relative’s illness, and symptom severity experienced by the ill relative were possible moderators or confounders in analyzing the association of caregiver-psychiatrist relationship with attribution, stigmatization, and caregiving experience. Fifth, the translated measures (FCS, IAS, SAS, and ECI) were only tested for their face validity with Taiwanese mental health professionals. Additional work is needed to establish other dimensions of validity for these instruments. Sixth, this study relied solely on family caregivers’ perceptions for all measures. To fully understand how attributions, stigma, and caregiving experience are associated with caregiver-provider relationship, future research needs to account for the providers’ viewpoints as well as utilize behavioral observation to obtain objective measures of family-provider relationships. Finally, future research needs to further explore the differential associations of the domains of attributions, stigma, and caregiving experience with caregiver-provider relationship to enhance effective caregiver-provider collaboration.

Conclusion

Our study provides some evidence of varied associations of attribution, stigmatization, and caregiving experiences with caregivers’ perceived family collaboration with and informational support from psychiatrists. Among four types of attributions, biological attribution was positively associated with perceived family collaboration, and environmental attribution was positively associated with perceived informational support. Internalized stigma was negatively associated with perceived family collaboration, while perceived stigma was not associated with either of the measures of family-psychiatrist relationship. Caregiving rewards were positively related to both perceived family collaboration and informational support, experience of problems with services was positively associated with perceived family collaboration, but burdens were not found to be associated with family-psychiatrist relationship. These findings from caregivers’ perspectives suggest the importance of sensitivity to cultural, social, and interpersonal context of caregiver-provider interactions, and inform approaches to better engaging family caregivers in Western psychiatric care.

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