Abstract

The aim of the present review was to examine objective and subjective burdens in primary caregivers (usually family members) of patients with bipolar disorder (BD) and to list which symptoms of the patients are considered more burdensome by the caregivers. In order to provide a critical review about caregiver’s burden in patients with bipolar disorder, we performed a detailed PubMed, BioMedCentral, ISI Web of Science, PsycINFO, Elsevier Science Direct and Cochrane Library search to identify all papers and book chapters in English published during the period between 1963 and November 2011. The highest levels of distress were caused by the patient’s behavior and the patient’s role dysfunction (work, education and social relationships). Furthermore, the caregiving role compromises other social roles occupied by the caregiver, becoming part of the heavy social cost of bipolar affective disorder. There is a need to better understand caregivers’ views and personal perceptions of the stresses and demands arising from caring for someone with BD in order to develop practical appropriate interventions and to improve the training of caregivers.

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Key words: Bipolar disorder; Caregivers; Burden; Prevention

Core tip: This broad overview suggests that there is vast literature about the consequences the caregivers of patients with a bipolar disorder (BD) are confronted with, the distress they experience and the coping styles they use to deal with the consequences. Available data suggest that caregiver burden is high and largely ne-
glected in BD. Informal caregivers are central to the wellbeing of patients, but at the same time researchers, policy makers and formal service providers often take for granted their co-operation and welfare.


INTRODUCTION

In its 1999 annual report, the World Health Organization[9] reported that mood disorders are the most frequent causes of morbidity and mortality in developed countries.

Bipolar and unipolar mood disorders compromise quality of life, efficiency at work, and cause chronic impairment more than cardiovascular diseases, according to findings of Ogilvie et al[8]. Besides making persons/patients suffer, bipolar disorders also have a deep impact on life quality of families and caregivers[9]. Bipolar disorder (BD) is a recurrent severe mental disease with a prevalence ranging from 1.3%-1.6%[2] to 3.8%-5%. Extremely different moods such as mania, hypomania and depression cause sudden changes in behavior, feelings and thoughts. They also cause alterations in the level of energy. BD has been included, together with four other psychiatric conditions, among the ten leading causes of disability worldwide in 1990, measured in years lived with disability as a response to the illness or rejects the person/patient and gets angry because the illness is spoiling his or her life. In general, subjective burdens could be related to the development of affective symptoms[3]. A recent prospective study highlighted that caregivers suffer more when the person/patient develops manic symptoms than when they develop depressive symptoms[8]. In the context of caregiving, it is important to differentiate this concept from the concept of “family burden”. The term caregiving tends to focus on providing actual assistance in response to the illness and this experience may have both positive and negative elements within the experience. Family

The stress-coping model may be considered as a fundamental paradigm for examining caregivers burden in all disorders, including BD. Using the stress-vulnerability model as a conceptual framework, it is possible to understand the role of stress when the effects of the illness appear and a specific vulnerability exists. The stress-coping paradigm explains the effects of stress on health according to a contextual approach about how the coping processes allow reducing the negative implications of stress and improving adaptation in conflicting situations[18]. Szumukler et al[9], aiming to develop a valid self-report measure of the experience of caring for a relative with a serious mental illness, initially conceptualized caregiving within the “stress-appraisal-coping” framework. Analyses of responses to the 66-item version of the Experience of Caregiving Inventory (ECI) were obtained from 626 caregivers and then tested on 63 relatives of patients with schizophrenia in acute care. The authors investigated the degree to which the ECI complied with the stress-coping model in association with coping and predicted psychological morbidity in carers. Results showed that the ECI, together with coping style, predicted a large proportion of the variance in the General Health Questionnaire, suggesting that the ECI identified important dimensions of caregiving distinct from coping and psychological morbidity.

This would, however, be of great importance since the support given by relatives is an essential contributor to the wellbeing of the person/patient and a positive prognostic factor. Independently of that, it would be of great importance to prevent the development of psychiatric disorders in family members as a response to the stress induced by the person/patient with BD.

A belief that family members’ behavior causes the disease has been replaced by the idea that it is the illness that causes discomfort in the relatives[20]. This is the reason why many studies are focusing on the impact of this illness on family members and caregivers. It is also known that caregivers of persons/patients with long-term illness show stress, depression and health problems[21;22].

Murray et al[7] emphasized the impact of the main psychiatric illnesses on individuals and immediate social groups in the world. The burden of caring for a psychiatrically ill family member has been classified into two categories, the “objective” and the “subjective” burden[23]. The first category is what happens to family life that can be observed and verified, including separation and divorce in marriages, reduced social and leisure activities due to fears of stigma and financial difficulties[23]. The second category involves personal feelings related to such a burden for a caregiver, who often feels distressed, upset and unhappy[3;21-27].

Sometimes the caregiver also feels guilty for contributing to the illness or rejects the person/patient and gets angry because the illness is spoiling his or her life. In general, subjective burdens could be related to the development of affective symptoms[3]. A recent prospective study highlighted that caregivers suffer more when the person/patient develops depressive symptoms than when they develop manic symptoms[8]. In the context of caregiving, it is important to differentiate this concept from the concept of “family burden”. The term caregiving tends to focus on providing actual assistance in response to the illness and this experience may have both positive and negative elements within the experience. Family
burden on the other hand, tends to be considered as the emotional experience (typically negative) associated with a relative's illness, but this individual may or may not be involved in the provision of practical assistance. The aim of this review was to examine objective and subjective burdens in primary caregivers (usually family members) of persons/patients with BD and to list which symptoms are considered more burdensome by the caregivers. Another aim of our study was to value the impact of BD on functioning in the relationship of parents, children and partners of persons/patients affected by this disease.

SEARCH REFERENCES

Search strategy
In order to provide a critical review about caregiver’s burden in persons/patients with BD, we performed a detailed PubMed, BioMedCentral, ISI Web of Science, PsycINFO, Elsevier Science Direct and Cochrane Library search to identify all papers and book chapters in English during the period between 1963 and November 2011.

The search used a combination of the following terms: “Bipolar disorder” or “manic-depressive illness” or “manic-depressive disorder” and “caregivers” or “family members” or “parent” or “partner” and “quality of life” and “psychosocial impairment” and “burden of disease”. Then, in a second step we searched the same terms specifying (title and abstract) as electronic search strategy in Medline to adequately focus on the specific field of interest. The reference lists of the articles included in the review were also manually checked for relevant studies. All English full-text articles reporting original data about the main topic were included.

Figure 1  Search strategy used for selecting studies (identification, screening, eligibility, inclusion in the systematic review).

Quality assessment
The principal reviewer (Pompili M) inspected all reports. Then, three reviewers (Pompili M, Innamorati M, Harnic D) independently inspected all citations of studies identified by the search and grouped them according to topic of the papers. Reviewers acquired the full article for all papers located. Where disagreement occurred, this was resolved by discussion with Serafini G who also with double-blind features inspected all articles located and grouped them following the major areas of interest identified by all authors. If doubt remained, the study was put on the list of those awaiting assessment, pending acquisition of more information. Included were all studies with data on caregivers of persons/patients with BD.

We excluded from our analysis any studies vaguely reporting on the taking care of the above mentioned disorders or using inadequate or unclear diagnostic criteria for such disorders or those inappropriately assessing bipolar disorders. Results of this search are presented in the paragraphs regarding the impact of living with persons/patients with BD.

Study design and eligibility criteria
To achieve a high standard of reporting, we adopted “Preferred Reporting Items for Systematic Reviews and Meta-Analyses” (PRISMA) guidelines. The PRISMA Statement consists of a 27-item checklist and a four-phase flow diagram for reporting in systematic reviews and meta-analyses.

OBJECTIVE AND SUBJECTIVE BURDENS IN PRIMARY CAREGIVERS OF PATIENTS WITH BD

Number of studies selected
The combined search strategies yielded a total of 227 articles of which, after a complete analysis, 96 full-text articles were screened and 131 were excluded. We excluded articles not published in peer-reviewed journals and not in the English language, articles without abstracts, abstracts that did not explicitly mention caregivers’ burden in patients/persons with BD and articles with a publication date before 1963. Forty-eight full-text articles were assessed for eligibility but twenty-eight full-text articles were excluded due to low-relevance to the main theme, including unclear data regarding materials and methods and number of patients analyzed (Figure 1).

Psychiatric symptoms and other health consequences in caregivers of persons/patients with BD
Chakrabarti et al. found that BD brought more objective burden on caregivers of hospitalized patients and outpatients than unipolar depression. High levels of critical, hostile or emotionally overinvolved attitudes (high expressed emotion) in parents or partners of persons/patients with BD were described world-wide.

Subjective burden for the caregiver was the source of
moderate distress highly related to the patient’s behavior, followed by the adverse effects on others; nearly 70% of caregivers were distressed by the way the illness had affected their own emotional health and their life in general. The patient’s role performance was a source of lower distress level. Caregivers of persons/patients with BD, similar to caregivers of persons/patients with other major affective or chronic psychiatric disorders, report high levels of stress and poorer general health, increased visits to their primary care physicians, and higher numbers of symptoms of physiological and psychological conditions, including depressed mood, when compared to caregivers who report less stress.

Caregivers are those who attend to or provide services to an individual in need, typically one suffering from chronic illness or disability. According to a few researchers, they experience increased symptoms of depression or anxiety. Psychiatric distress in samples of caregivers of persons/patients with BD was measured in few studies. Few studies measured mood symptoms in caregivers of patients with BD, especially depressive symptoms. Two further studies published in the literature measured anxiety symptoms in caregivers of persons/patients with BD. Only one paper measured caregiver psychotic symptoms.

The illness rarely changed the nature of work of the caregivers. However, 76% of the caregivers working outside home had to reduce their hours of work or take time off work during episodes of illness, according to one study in Australia. At the same time, 27% of caregivers had experienced a reduction in their income since the onset of the patient’s illness. Patients also had difficulty managing their finances during an episode of illness so that almost half of the caregivers care for the patient’s finances at those times. Parents and partners of persons/patients with BD had the burden of these costs more frequently than other caregivers.

The economic impact of caregiving was expressed by time off work because of caring obligations, the impossibility of accepting a full-time job and offering flexibility that employers might normally require or, in other words, to use their potential in economic/career terms, etc. A study in the United States showed that direct economic consequences were represented by the significant financial contributions that family members, especially parents and siblings, often make in order to support their relatives with BD.

It was quite usual to have police involvement with patients during at least one episode of illness (66%) and, although legal repercussions were rare, it caused significant stress for many caregivers. Most commonly, caregivers were disturbed by aggressive and violent behaviors (17%) and, suicidal ideas and acts, odd behaviors (10%), overactivity, overtalkativeness, impulsive spends (each 4%) and suicidal ideation and attempts. During depressive episodes, the depressed mood itself (with its accompanying misery and hopelessness) disturbed the caregivers the most. There is no universally accepted definition of burden of care but the concept of burden is associated with the patient’s poor social performance that is usually reflected in the caregiver’s burden. The original distinction between objective and subjective burden has been described by Hoenig and Hamilton. They identified objective burden that included anything occurring as a disrupting factor within family life owing to patient’s illness and subjective burden that referred to the feeling that a burden is being carried in a subjective sense.

**Objective burden - which would include problem behavior, financial burden and the effect on the family of the patient**

The caregiver’s role is hard, frequently distressing and frequently affects health and quality of life. A high burden level on relatives of persons/patients with BD has been reported and recent studies have shown that caregiver’s burden may influence the clinical outcome of BD. Caregivers who experience higher levels of burden in caring for persons/patients with bipolar illness have a negative influence on the course of the illness, especially on the patient’s medication adherence and on the risk of future mood episodes. Perlick et al. have argued that caregivers with a higher level of distress can behave differently towards the patient and this could affect the clinical outcome. Reducing burdensome aspects might help to abolish burden negative effects both on the caregivers and patient outcome. According to the literature, a prolonged illness and high levels of impairment among patients, caregiver illness beliefs and coping style influence the family burden perceived by relatives of persons/patients with BD. The illness often impacts on the partner’s life. Most partners said that the illness made their relationship difficult and, as a result, separations because of illness-related difficulties were common.

All the parents with bipolar disorders interviewed said that a major problem for them was monitoring and managing their own emotions in relation to parenting. For parents with bipolar disorders, it was highlighted that there was a need for teaching moderation to their children and monitoring it in their children’s development. The result of this for these parents was a heightened sense of the need for self-surveillance. These authors concluded that the challenge for people working with parents who have been diagnosed with a BD is to support them to feel confident in the management of their BD and their ability to parent effectively.

A need to understand caregivers’ views and perceptions of the stresses and demands arising from caring for someone with BD is emerging because developing practical, appropriate and acceptable interventions and improving the training of professionals working with persons/patients with BD and their caregivers can make patient outcomes better and reduce caregiver distress.

Some disruptions include changes to household, social and leisure activities, employment and finances. Care-
givers of persons/patients with BD who had experienced a relapse during the previous 2 years experienced a higher level of burden, especially subjective burden, according to the number of previous episodes. So, the level of burden may be sensitive to “recent” crises, as reported by Perlick et al[89]. Finally, subjective burden is also influenced by the sense of responsibility for drug intake[54]. As a result, avoiding relapses or increasing the time to relapse, improving inter-episode functioning, promoting the autonomy of the patient and reducing the caregiver’s responsibility level for the patient’s treatment should be crucial goals of psychosocial treatment of BD[87].

According to the tripartition of caregivers defined by Plat[91], the effective caregivers have reported no diseases, a low level of stress and adaptive coping; the burdened caregivers have shown a high level of stress linked to the subject’s behavior and less adaptive coping; the stigmatized caregivers were stressed due to perceived stigma, effective coping and were healthy. The level of stress and health among caregivers are strictly linked, whereas those with a higher degree of caregiving strain have a poor health and mental health[89].

Regarding burdensome aspects, Perlick et al[89] identified that the most frequently distressing behaviors for caregivers were hyperactivity, irritability and withdrawal. Other authors have mentioned aggressive or violent behavior, impulsive spending, depressive mood and suicidal ideas and acts among the symptoms creating the biggest burden[86-88]. Lam et al[41] found that most of the symptoms that were seen by partners as non-illness related and due to temperament or choice were either behavioral deficits or impulse control problems.

Although a high percentage of caregivers experienced disruptions to household management, this issue generates far lower distress levels than those mentioned above. Most caregivers were significantly distressed by the way the patient related to them when unwell. Partners and parents particularly found this stress major (the marriages of persons/patients with BD often result in separation and divorce according to some authors[87]). In addition, most caregivers experienced significant disruption in social activities and leisure pursuits common when the patient was unwell, especially partner caregivers[8]. It seems clear the caregivers cope better with illness related symptoms than actions related to the patient personality. This finding highlights the need for good psychiatric education, not only of the patient, but also of his/her immediate social group[8].

The effect of the requirement for emotional regulation in persons/patients with BD was that the parents interviewed identified a need for constant surveillance of their behavior and interactions with their children and hypervigilance for any signs of abnormality. The stigma of mental disorder for the parents with BD had a significant impact on their sense of self and their identity[88-84].

**Subjective burden - emotional and other consequences of caring for a relative with BD**

Dore et al[8] showed the impact of illness on the caregiv-ers relationship with the patient when he is unwell. Most caregivers (90%) found the patient distant and difficult to get close to during acute episodes of illness. The patient felt irritable when unwell (80%) and this frequently led to arguments that had never occurred before. Impulsivity and aggression may be common during episodes of mania or hypomania. Most caregivers (81%) were distressed by the relationship with the patient when the patient was acutely ill; 64% described the level of personal distress as “severe”[89]. When patients became well again, their relation-ship with caregivers usually improved significantly, with 80% of the group feeling that the relationship remained close during times of remission. Almost half of the group (49%) felt the illness had brought them closer. A closer relationship was more common if the patient was male and the caregiver female.

Families, who often end up supporting and caring for them, suffered the consequences of the illness in terms of a high rate of marital and long-term partnership breakdown[61]. Even if bipolar symptoms spontaneously subside, such as during untreated inter-episode periods, impaired functioning persists for many patients[83]. This loss of social functioning is a hard experience for caregivers and families that, in turn, can adversely affect the clinical outcome for the patient[80,83].

Most people who view themselves as informal caregivers have experienced an important transition in which existing spousal, family or friendship relationships were superimposed on the relationship of “caregarded”. These changes are related to specific symptoms, key illness related events and the stage of the disorder, but very little is known about the factors mediating these changes[89].

Lack of attention to the views of caregivers, the nature of the relationship between caregiver and patient, social circumstances and culturally situated health beliefs could be a risk in terms of impact upon both treatment interventions and the burden of care experienced by informal caregivers[2].

Dore et al[8] showed that the majority of caregivers were family members: parents (37%), a partner (32%) or another relative (24%). The caregivers’ average age was 46 years (range: 14-76). In the acute phase of his/her illness, the patient may become more irritable, distant and difficult to manage.

There is little information in the literature regarding spouses of persons/patients with BD. Only 56% of partners were aware BD could be inherited prior to the birth of their children and many (44%) decided not to have children because of that[8]. Separation/divorce is another consequence of illness[83-85]. Some authors define marriages as “intermittently incompatible” because they become unstable whenever the patient becomes unwell[89].

In addition, Targum et al[48] found that, compared with their spouses, patients do not feel any impact of BD on their family and the potential for offspring to develop the illness. In contrast, spouses would often reconsider marrying and having children if they have had a previous acknowledgement. Anyway, almost all patients and
spouses want to know about genetic test information for their potential children; however, few of them would have reconsidered marriage or childbearing \[67]\). Janowsky et al.\[68]\ underlined that manic behaviors have greatest impact on the marital relationship. These behaviors included manipulation of others, projection of responsibility and progressive limit testing.

**Suicide:** Mood disorders are recognized as a major health care problem in many completed suicides and substantial illness burden worldwide \[69]\). Caregiver distress can be increased by the high risk of suicidality in BD persons/patients as up to 59% of patients may exhibit suicidal ideation or behavior during their lifetime\[70]\).

Many attempted or completed suicides are characteristic for the longitudinal course of BD\[71-73]\. This causes a significant distress for caregivers because of depression and/or suicidal thoughts or behaviors.

Cross-sectional data from Chessick et al\[74]\ indicated that caregivers of patients with current suicidal ideation or a history of suicide attempts reported worse general health scores and higher levels of depressed mood than caregivers of patients without them. In 2009, Chessick et al\[75]\ had two other major findings. Firstly, suicidal ideation increase in BD persons/patients from baseline to 6 and 12 mo reported worse general health to caregivers than a stable or decreased from baseline suicidal ideation, probably because caregivers could overextend themselves in the hope of “saving the patient” by taking on more responsibility for the patient than is sustainable for long periods of time\[76]\. Secondly, more suicidal ideation and more depressed mood at baseline and follow-up points have been correlated with more depressed mood at each time interval. Even so, previous data showed that patients with subsyndromal and post episode residual symptoms have significant psychosocial impairment, so further stress for the caregiver\[77-79]\. Frustration and distress in caregivers could also derive from any extension of the period before patients come back to work, education and other everyday functions after treatment resolved the major depressive episode\[80]\. These data may help to prospectively identify caregivers at risk for adverse health outcomes who may benefit from prevention focused intervention.

Family focused therapy (FFT) has also been adapted to treat suicidal symptoms in the persons/patient with BD\[81]\). Caregivers and patients are educated how to have open discussions of the patient’s suicidal ideation or previous attempts, identifying prodromal symptoms (i.e., depression and hopelessness) or psychosocial stressors (i.e., job or relationship loss) associated with the prior attempts, in order to address the patient’s future suicidal feelings or behaviors. That could relieve caregivers strain as well as reduce the probability of suicide attempts for the patient\[82]\. So family psychoeducation interventions for BD, such as FFT with its instructional material on caregiver self-care, could be beneficial\[83]\, especially for caregivers living with patients with significant psychosocial dysfunction\[84]\.

**Violence towards the caregiver:** Violence together with other symptoms in BD such as aggression, hyperactivity and disinhibition are a major source of distress for caregivers. Agitation and violence represent for clinicians some of the most fear-provoking aspect of psychiatry\[85]\. Patients with BD may show several forms of violence and aggression. Although violence risk prediction represents a priority issue for clinicians working with mentally disordered offenders\[86]\, few studies in the medical literature have selectively addressed violence and aggression for caregivers of patients with BD. It is fundamental to understand the specific cause of distress experienced by caregivers as they can contribute to the overall management of this illness\[87]\. The ability of family members to identify behavioral patterns of bipolar patients prior to the episode of violence could help decrease the severity and consequence of violence\[88]\.

Violence was more common towards partners than other caregivers and was not determined by the gender of the patient\[89]\. Nearly half the caregivers (44%) had experienced violence or were frightened that violence was going to occur when the patient was unwell, in fact experiencing serious forms of violence when the patient was unwell (nearly 25% of caregivers). Most partners (92%) found it difficult sustaining the relationship because of the illness of the other partner\[90]\.

Amore et al\[91]\ suggested that violent behavior in the month before admission was found to be associated with male sex, substance abuse and positive symptoms in 374 patients consecutively admitted inpatients in a 1-year period study. The most significant risk factor for physical violence was a past history of physically aggressive behavior.

Violence was confirmed as a particular worry for partner/parent caregivers of 41 BD patients when the patient was in a manic phase. The authors also suggested that the caregiver’s own mental health appeared unaffected\[92]\.

Raveendranathan et al\[93]\ investigated a total of 100 consecutive incidents of inpatient violence and found that bipolar spectrum disorder was the most common diagnosis. The authors suggested that family members were the targets of violence in 70% of these incidents, whereas 81% were provoked episodes. In addition, family members identified 76% of the patients as irritable only prior to the episode.

Aggressive and violent behavior were reported as most disturbing during mania by most caregivers and were really interpreted as symptomatic of the illness as well as not under the patient’s control\[94]\.

In summary, violence towards the caregivers in patients with BD remains, no doubt, one of the most important, unaddressed and poorly epidemiologically investigated problem in clinical practice.

**DISCUSSION**

Results from our review suggest that the highest levels of distress were caused by patient’s behavior (nearly 70% of caregivers was distressed by the way the illness had affect-
ed their emotional health and their life (in general) and by the patient’s role dysfunction (work, education and social relationships). Steele et al.[46] in a recent review examined general psychiatric distress, anxiety symptoms and mood symptoms in caregivers and showed that caregivers of patients with BD had increased psychiatric symptoms, especially depression, that they wanted to be treated.

Goldstein et al.[50] found that non-biological relatives caregiving 66 patients with BD type I (e.g., partners or spouses) had more DSM-III-R Axis I diagnoses than biological relatives, who had more diagnoses of mood and temperament disturbances (i.e., BD). Indeed, it has been shown that parents were more distressed about suicidal ideation when their child had a history of suicide, whereas partners were more distressed about suicidal ideation when their partners had no history of it[46], suggesting that caregivers feel their responsibilities and roles depend on how they cope with patient symptoms. One explanation for these findings could be that parents caring for a patient with a history of suicidal behavior blame themselves and feel responsible for their child’s mental health history, while partners feel somehow responsible for “pushing” the patient towards suicide although they had never attempted it before.

Nehra et al.[85], for example, found that caregivers of persons/patients with BD report at least moderate burden on neuroticism, a trait associated with depression and anxiety,[86] used a more coercive coping (i.e., getting angry, shouting and using force) compared to caregivers of schizophrenic patients. In addition, Perlrick et al.[87] found that perceived stigma was positively associated with depressive symptoms, reduced social support and avoidance coping in 63% of that relationship.

Chronicity and disability present a significant challenge to caregivers and family members of affected persons so that nearly all caregivers of persons/patients with BD report at least moderate burden.[17,19,36,85] The degree of burden experienced by the caregivers because of depression in the patients should alert clinicians to the importance of initiating maximally effective treatment for bipolar depression, including structured psychotherapies (including family-focused therapy) and validated mediation treatments, to minimize the impact of those symptoms on caregivers. An interactive relationship between depressive symptoms and caregiver burden should be directly addressed.[85] The direction of the association between illness severity and burden cannot be easily assessed. It has previously been suggested that caregiver burden predicts whether a patient will have a symptom relapse of their affective illness.[88] Similarly, Nehra et al.[85] found high levels of patient dysfunction and caregiver burden in both bipolar disorders and schizophrenia, with no significant differences between the two groups. Although the caregiving experience has been extensively investigated in some chronic severe mental disorders, more methodologically and culturally relevant studies are needed in order to understand the differential aspects of emotional and psychological burden on caregivers of patients with schizophrenia and bipolar disorders.

Several studies confirmed that caregivers of persons/patients with bipolar disorders often seek mental health care.[36,41,43] Nadkarni et al.[85] investigated support services available for parents of youth with BD.

Existing studies on family caregivers of persons/patients with psychiatric disorders have been traditionally

The burden experienced by caregivers of persons/patients with BD has been associated with increased caregiver psychiatric conditions and mental health service utilization. Investigating the impact of caregivers burden in other chronic psychiatric conditions such as schizophrenia could be, in our opinion, helpful to understand the caregiver burden in BD. Caregivers of patients with schizophrenia experience a huge burden and are considered as a potential high risk group for developing psychiatric disorders.[89] Tan et al.[90] found in a convenient sample of 150 caregivers of outpatients with schizophrenia high levels of burden due to several factors like other commitments, lack of resources, low financial support, education level and age. Kate et al.[91] suggested that caregiving burden, in particular tension, is associated with dysfunctional coping strategies, poor quality of life and psychological morbidity in caregivers.

Burden of care for caregivers of patients with schizophrenia may be considered as a complex construct generally defined by its emotional, psychological, physical and economic impact on the quality of life of caregivers.[90] Many studies measured the burden of care in schizophrenia, whereas only some studies measured the burden experienced by the caregivers of patients with BD. To date, few studies have compared the degree of burden on the caregivers of patients with schizophrenia and bipolar disorders. Grover et al.[92] reported that caregivers of schizophrenia patients experience caregiving more negatively compared with those of BD patients. The authors suggested that caregivers of patients with schizophrenia and bipolar affective disorder experience a relevant burden while caring for their patients.

There are also studies suggesting that caregivers of patients with schizophrenia and bipolar disorders experience similar levels of burden using similar coping strategies to deal with it[90]. Similarly, Nehra et al.[93] found high levels of patient dysfunction and caregiver burden in both bipolar disorders and schizophrenia, with no significant differences between the two groups. Although the caregiving experience has been extensively investigated in some chronic severe mental disorders, more methodologically and culturally relevant studies are needed in order to understand the differential aspects of emotional and psychological burden on caregivers of patients with schizophrenia and bipolar disorders.

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Existing studies on family caregivers of persons/patients with psychiatric disorders have been traditionally

Pompi L et al. Impact of living with bipolar patients
conducted on negative aspects of caregiving focusing on caregiver's burden. However, it is also important to describe the potential rewards and positive aspects of caregiving. Veltman et al. investigated caregivers' perspectives on both the negative and positive aspects of caregiving. Interestingly, even beneficial effects such as feelings of gratification, love and pride have been reported by caregivers. Specifically, caregivers described the importance of life lessons learned, love and caring for persons/patients with psychiatric conditions. Helping to identify the rewards of caregiving may improve caregiving abilities to face distress and challenging situations, reducing the global caregiver burden.

Also, Bauer et al. examined the potential rewards of caregiving and coping strategies of 60 caregivers of people with psychiatric disorders using semi-structured interviews. They identified 413 individual statements of rewards; the items with the highest factor loading are the increase in self-confidence, inner strength, maturity and life experience. The authors highlighted the importance of providing an adequate knowledge about caregivers’ burdens.

It was found that parents of persons/patients with BD may benefit from a variety of interventions. Generally, the interventions to reduce caregivers burden could be grouped under simple interventions at clinician's level (e.g., enquiring about burden, psychoeducational and support interventions) and the more complex interventions such as family interventions. It has been suggested that identifying and modifying burdensome aspects may help to reduce the level of burden and their negative effects on the caregivers also improving patients outcome.

Studies evaluating interventions on caregivers were shown to improve caregiver quality of life. However, although interventions may be associated with reduced burden and a stronger family competence, generally few caregivers seek out support for themselves.

Caregivers of persons/patients with BD can benefit from psychoeducational interventions designed to provide information, support and stress management skill building. It has been demonstrated in randomized controlled trials that a psychoeducational approach can improve outcomes for both patients and families. The ways of intervention have to be investigated with further studies but what is sure at this time is that professionals and non-professional caregivers should work together to support people with affective disorder more efficiently. Perlick et al. suggested that caregivers treated with a psychoeducational and cognitive-behavioral approach in the family focused treatment health promoting intervention condition reported a significant reduction in depressive symptoms and improvement in health behaviors when compared to caregivers who received education alone. They also experienced significant reductions in subjective burden associated with the patient's symptoms and role dysfunction during the course of treatment.

There are also potential short-term interventions that can be provided at the time of hospitalization for families of patients with mood disorders and are associated with an improvement of caregiver's burden.

Considering that male caregivers dropped out at higher rates than female caregivers, specific engagement strategies could be required to engage younger male caregivers experiencing high level of burden and distress.

Introducing suitable psychosocial interventions for caregivers means knowing more about their experiences. However, before this is possible, in-depth understanding of the nature of caregiver burden in relation to bipolar disorders is needed. Future studies should address the issue of caregivers’ burden related to bipolar disorders; specifically, there is the need to understand the various components of difficulties experienced by caregivers of with BD.

**Limitations**

This study has a number of limitations. It does not provide meta analytic results or comparisons between the studies. This is, of course, a major issue for further research in this field. Also, more literature might be available other than that located with our search strategy. It presents findings in a tutorial fashion, lacking extrapolations of figures that may be useful for a better estimation of the problem. Moreover, major differences might be found between studies reporting on caregivers’ burden. Furthermore, another criticism must be reported. There are many methodological difficulties in conceptualizing and measuring caregiver burden. Relevantly, the concept of caregivers burden has been viewed as multidimensional although caregivers burden has been generally divided in to objective and subjective burden. We stress the need of further research in this field.

**CONCLUSION**

In summary, this broad overview suggests that there is considerable literature about the consequences the caregivers of persons/patients with BD are confronted with, the distress they experience and the coping styles they use to deal with the consequences. Available data suggest that caregiver burden is high in BD. Informal caregivers are the central to the wellbeing of patients. This overview highlighted the need to better understand caregivers’ views and personal perceptions of the stresses and demands arising from caring for someone with BD in order to develop practical appropriate interventions and to improve the training of caregivers.

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