

Contemporary Family Therapy

Family Functioning and Social Support in Men and Women Diagnosed with Depression in China

--Manuscript Draft--

Manuscript Number:	COFT-D-13-00013R2
Full Title:	Family Functioning and Social Support in Men and Women Diagnosed with Depression in China
Article Type:	SI: Family Therapy in China
Keywords:	China, family functioning, depression, gender, social support, family therapy
Corresponding Author:	John Miller Nova Southeastern University Fort Lauderdale, FL UNITED STATES
Corresponding Author's Institution:	Nova Southeastern University
First Author:	Ji-Kun Wang, MD
Order of Authors:	Ji-Kun Wang, MD John Miller Xu-Dong Zhao, MD
Abstract:	<p>Previous research has demonstrated the association between family functioning and depression. This study evaluated family functioning and perceived social support in men and women in Shanghai who had received a diagnosis of a major depressive disorder (N=100), including sixty-six women and thirty-four men. The relationship between family functioning and social support of outpatients with major depressive disorders was explored using the Chinese Family Assessment Device (FAD-CV) and the Multidimensional Scale of Perceived Social Support (MSPSS). The scores from all dimensions of family functioning for both men and women indicated that depressed men and women all reported experiencing unhealthy family functioning. The clinical implications of these findings for the developing practice of family therapy in China are discussed.</p>
Response to Reviewers:	<p>Reviewer #1: I am glad that the authors have taken care of the feedback of the two reviewers and revised their manuscript accordingly.</p> <p>The present revision is good but please take care of two following minor points.</p> <p>(a) Shek's reliability study was conducted in early year and was outdated. Please update the assessment of the reliability of the McMaster Family Assessment Device by reading the following journal paper: Ma, J. L. C., Wong, T. K. Y. & Lau, Y. K. (2009). Sex Differences in perceived family functioning and family resources in Hong Kong families: Implications for social work practice. <i>Asian Social Work and Policy Review</i>, 3:155-174. doi:10.1111/j.1753-1411.2009.00031.x The validity and reliability of the Chinese FAD has been demonstrated (Shek, 2001; Shek, 2002; Ma et al., 2009). Ma, J. L., Wong, T. K., & Lau, Y. K. (2009). Sex Differences in Perceived Family Functioning and Family Resources in Hong Kong Families: Implications for Social Work Practice. <i>Asian Social Work and Policy Review</i>, 3, 155-174.</p> <p>(b) in discussing the linkage between perceived family functioning and perceived social support it would be more fruitful to discuss the gendered division of labour between men and women at home in Chinese culture.</p> <p>In addition, there are some characters in the gendered division of labour between men and women at home in Chinese culture, that men mainly are in charge of "outside" and women mainly "inside". For example, some research showed that a high degree of gender segregation among rural-urban migrants exists in the urban, that rural women's urban work opportunities are short-limited, and that women migrants are relegated back to the village and to the 'inside' (Fan, 2003). Therefore, men could bear more</p>

burden than women in China, such as economic responsibilities and so on, so that the perceived family functioning of depressed men could not related to their social support.

Fan, C. C. (2003). Rural-urban migration and gender division of labor in transitional China. *International Journal of Urban and Regional Research*,27(1), 24-27.

Reviewer #2: Major questions as followed:

1.This research showed no gender differences on both family functions and social support, which is incompatible with former researches that were reviewed. How to explain this?

Our findings did not reveal any significant differences by gender on perceived family functioning and social support, which is incompatible with former researches, which could be resulted from small sample. We plan to enlarge the sample in the future research.

2. Discussion:

There are no significant differences in every dimension of family functioning and perceived social support, how can we indicate there are a lot of differences between men and women at Page 9? And also, some variables that are not directly related to this article are discussed, like the influence of social norms, and encouraging male to express more emotions, which is not helping to make a clear point of this research.

Our findings did not reveal any significant differences by gender on perceived family functioning and social support, which is incompatible with former research, which could be resulted from small sample. We plan to enlarge the sample in the future research.

3. In this article, we only know depressed people have impaired family function, but we don't know what their social support are like, which is also very important for elaborating the implications of this research. So, maybe we can recruit some non-symptomatic participants to compare with the clinic sample, otherwise, we cannot get the conclusion that depressed people have problems on social support, and may need more help on this.

Our previous research showed that depressed patients including men and women both perceived poorer social support compared with healthy controls (Wang, et al., 2012c), and there was a significant difference in perceived social support between depressed patients and normal controls, which suggests patients with depression could need more social support. Also, the perceived social support among the older people with depression was lower than those among healthy older people (Wang & Zhao, 2012a), which suggests that more social support are needed to help improve the quality of life among older people with depression.

Wang, J., Zhao, X., Liu, L., & Ma, X. (2012c). Family functioning, social support and depression in a Chinese population. *Psychopathology*, 45, 334-336.

Running Head: FAMILY FUNCTIONING

Family Functioning and Social Support
In Men and Women Diagnosed with Depression in China

Jikun Wang

School of Psychology and Cognitive Science
East China Normal University

John K. Miller

Department of Family Therapy
Nova Southeastern University

Xudong Zhao

School of Medicine
Tongji University

Address correspondence to:

John K. Miller, Associate Professor, Department of Family Therapy, Nova Southeastern University, 3301 College Avenue, Fort Lauderdale, Florida 33314-7796; Email: jm2790@nova.edu.

1
2
3 **ABSTRACT**
4

5 Previous research has demonstrated the association between family functioning and
6
7
8 depression. This study evaluated family functioning and perceived social support in men
9
10
11 and women in Shanghai who had received a diagnosis of a major depressive disorder
12
13 (N=100), including sixty-six women and thirty-four men. The relationship between family
14
15
16 functioning and social support of outpatients with major depressive disorders was explored
17
18
19 using the Chinese Family Assessment Device (FAD-CV) and the Multidimensional Scale of
20
21
22 Perceived Social Support (MSPSS). The scores from all dimensions of family functioning
23
24
25 for both men and women indicated that depressed men and women all reported experiencing
26
27
28 unhealthy family functioning. The clinical implications of these findings for the developing
29
30
31 practice of family therapy in China are discussed.
32
33
34
35

36 *Keywords:* family functioning, major depressive disorder, gender, social support
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

Western research on gender differences, social support, family functioning, and depression

According to the World Health Organization, depression can cause serious outcomes in the population (Gladstone & Beardslee, 2009). Considerable research in the United States has demonstrated that there is strong association between depression and impaired family functioning (e.g., Cummings, Keller, & Davies, 2005; Miller, Epstein, Bishop, & Keitner, 1985; Burt et al. 2005). For example, some U.S. research has demonstrated that early or current family environment, in conjunction with genetic factors, predicts depressive symptoms (Lesch, 2004; Taylor et al., 2006). There is strong evidence indicating the influence of family factors on childhood depression (Restifo & Bögels, 2009). Different levels of the family system such as the whole family system, the spouse subsystem and the parent-child subsystem all contribute to internalizing symptoms such as depression and anxiety (Hughes & Gullone, 2008). Some family factors such as high disagreement and high control predicted childhood depression (Sander & McCarty, 2005). The depression of parents may predict the depression and behavioral problems of children due to family dysfunction and unhealthy parenting styles (Cummings, Keller, & Davies, 2005; Bouma, Ormel, Verhulst, & Oldehinkel, 2008). Depression can be transmitted from parents to children via parent-child relationships in families (Wilson & Durbin, 2010). Some research has suggested that depression in mothers was a risk factor contributing to depression in their children (Milan, Snow & Belay, 2009). Moreover, the children of the mothers with longer depressive episodes were found to be more likely to have internalizing and externalizing symptoms (Foster et al., 2008). However, the treatment of depression in parents could

1 reduce the risk of depression in children in later years by improving family functioning
2
3 (Silberg, Maes, & Eaves, 2010). Depression has been shown to have a deleterious effect on
4
5 many areas of life including marital and family functioning, suggesting that a more complete
6
7 treatment for depression may also include addressing areas of marital and family life (Herr,
8
9 Hammen, & Brennan, 2007). This may be even more important in Chinese culture, which is
10
11 focused on collectivist values and intergenerational family connections (Miller & Fang, 2012).
12
13 For example, the depressed older patients of empty nest families perceived poorer family
14
15 functioning than non-empty nest older people (Wang & Zhao, 2012a). Some research has
16
17 showed that the cost of depression currently represents a significant burden in China (Hu, He,
18
19 Zhang, & Chen, 2007). Family interventions and improvement of social support are
20
21 important in reducing depression among elderly patients (Wang & Zhao, 2012b). Some
22
23 Western research has shown that good social support could offset the negative influence of
24
25 stress on the family with a depressed family member, and the perception of social support
26
27 seems to have an important influence on depressive symptoms and could also predict the
28
29 outcome of depression (Morriss & Morriss, 2000). A research of Chinese sample showed
30
31 there was a significant difference in perceived social support between depressed patients and
32
33 community controls, which suggested that depressed patients could be in need of more social
34
35 support and supported the importance of considering the family context in the treatment of
36
37 the depressed patient (Wang, Zhao, Liu, & Ma, 2012). Therefore, it is necessary to explore
38
39 the factors that may influence the development and prognosis of depression in China.
40
41
42
43
44
45
46
47
48
49
50
51
52
53

54
55 Some authors have found gender differences in how depression is experienced (Herr,
56
57 Hammen, & Brennan, 2007; Kilmartin, 2005; Mahalik, 2008; Schraedley, Gotlib, &
58
59
60
61
62
63
64
65

1 Hayward, 1999), and gender differences in the relationship between depression and family
2
3 functioning (Febres, Rossi, Gaudiano, & Miller, 2011; Kendler, Myers, & Prescott, 2005).
4

5
6 For example, women were diagnosed with major depressive disorders twice as often as men,
7
8 while men commit suicide four times more than women (Kilmartin, 2005). Different
9
10 depressive symptoms were found in men and women with depression (Addis, 2008;
11
12 Uebelacker, Strong, Weinstock, & Miller, 2009). Some authors maintain that gender
13
14 differences with regard to depression begin in adolescence and persists through adulthood
15
16 across many countries (Hankin & Abramson, 2001), and results from both biological and
17
18 social factors (Boughton & Street 2007). Men and women may also cope with depression
19
20 in different ways (Boughton & Street, 2007; Mahalik, 2008; Wilhelm, Parker, Geerlings, &
21
22 Wedgwood, 2008). In Western culture, some authors posit that societal tendencies
23
24 encourage women to express feelings, while discouraging men from overt expression of
25
26 feelings. Instead of verbalizing their feelings, these studies suggest that some men may
27
28 adopt behaviors such as self-destructiveness, drug use, gambling and workaholism to cope
29
30 with their depression (Kilmartin, 2005).
31
32
33
34
35
36
37
38
39
40
41

42 In addition, cultural influence on depressive symptoms is found to be different with
43
44 respect to gender expectations (Kilmartin, 2005). Masculine norms may shape the
45
46 responses to depressed mood in men. Addis (2008) suggested that masculinity, which was
47
48 associated with antifemininity, competitiveness, homophobia, emotional stoicism, physical
49
50 toughness and power over women, may induce men to avoid emotional experiences such as
51
52 sadness. Men may engage in behaviors such as drinking, substance abuse, emotional
53
54 numbness, over-involvement in work and criminal behaviors to cope with depression (Addis,
55
56
57
58
59
60
61
62
63
64
65

1 2008; Kilmartin, 2005; Wilhelm et al., 2008). Previous studies have indicated that women
2
3 are encouraged to express their depressed mood with behaviors such as crying, worrying, and
4
5 talking about their sad experiences (Kilmartin, 2005). Women were more likely to possess
6
7 emotionally close relationships and tend to seek more social support when they suffered from
8
9 depression (Boughton & Street, 2007).
10
11
12

13
14 A stronger association between depression and marital satisfaction was found in women
15
16 than men (Herr et al., 2007; Whisman, 2001). For instance, depressed women reported
17
18 more dysfunction in their marital relationships, while depressed men reported more work
19
20 impairment (Kornstein et al., 2000). The relationship between family functioning and
21
22 depression is stronger in women than in men (Sarmiento & Cardemil, 2009). Some
23
24 research indicated that the depression of women is associated to family factors, while the
25
26 depression of men may result from other factors such as employment and financial factors
27
28 (Hovey & Magana, 2000). However, comparable relationships between interpersonal
29
30 dysfunction and depression was found in both men and women (Zlotnick, Kohn, Keitner, &
31
32 Della Grotta, 2000).
33
34
35
36
37
38
39
40
41

42 A strong relationship between social support and depression has been previously
43
44 proposed (Bildt & Michelsen, 2002). Emotional support has shown to be more of a
45
46 protective factor for women with depression than for men (Kendler et al., 2005).
47
48
49

50 Schraedley and colleagues (1999) indicated women reported higher levels of social support
51
52 and depression, and a stronger relationship between social support and depression.
53
54

55 **Chinese research on family functioning, social support, gender differences, and**
56
57 **depression**
58
59
60
61
62
63
64
65

1 While there is a plethora of research regarding depression, social support, family
2 functioning, and gender differences in the Western literature, little has been published in
3 these areas in the Chinese literature. Most scholars recognize that culture heavily shapes
4 the expression and experiences of depressive symptoms, and treatment can also be heavily
5 shaped by culture (Kleinman, 2004; Ryder et al., 2008). For example, some research
6 proposed Chinese depressed patients present somatic symptoms as part of the patient role,
7 while Western samples focused on psychological symptoms (Yen, Robins, & Lin, 2000).
8
9 Another study conducted in China found that less emotional support and more criticism from
10 the family were related to more depressive symptoms in older people, which suggested that
11 elderly people with depression would likely benefit from increased family involvement
12 (Leung, Chen, Lue, & Hsu, 2007).
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

31 Moreover, whether a family defines itself or its members “healthy” or “normal” will
32 likely differ in different cultures (Shek, 2002). In Chinese families, harmony is emphasized
33 in healthy family functioning and social relationships (Allison, 1997). The structure of
34 Chinese families is more hierarchical than that of families in Western cultures (Ho, 1996;
35 Shek & Lai, 2000). Chinese families emphasize face-saving (面子 *mianzi*) in family or
36 social problem solving (Ting-Toomey, 1988). Some research shows absence of conflict,
37 interpersonal harmony, mutuality, connectedness and positive parent-child relationships as
38 important factors contributing to happy families in China (Shek & Chan, 1998; Shek, 2001).
39 Such research proposes that Chinese families de-emphasize emotional expressiveness and
40 communication as important attributes for a happy family as compared with families in
41 Western culture (Shek & Chan, 1998).
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1 Few studies have explored whether family functioning and social support differ in men
2
3 and women with depression in China. The number of patients in China with major
4
5 depressive disorder is increasing, and depression has been demonstrated to be a very costly
6
7 disorder in China (Hu, He, Zhang, & Chen, 2007). The application of effective treatments
8
9 will lead to a significant reduction in the total societal burden resulting from depression.
10
11 Therefore, it is important to explore the factors that influence the development and prognosis
12
13 of depression and treatment strategies for depression in China. This study explored
14
15 perceived family functioning and social support of women and men, and whether there are
16
17 differences by gender in the relationship between family functioning and social support using
18
19 the Chinese Family Assessment Device (FAD-CV) and the Multidimensional Scale of
20
21 Perceived Social Support (MSPSS).
22
23
24
25
26
27
28
29
30

31 **METHOD**

32 **Participants**

33
34
35
36 The sample consisted of Chinese patients living in Shanghai. Inclusion criteria for
37
38 all participants included the diagnosis of DSM-IV criteria (American Psychiatric Association,
39
40 2000) for “major depressive disorder”. The participants were outpatients from the
41
42 Department of Psychosomatic Medicine at the Shanghai East Hospital. The hospital is
43
44 affiliated with Tongji University School of Medicine in Shanghai, China. Exclusion criteria
45
46 for all participants included the diagnosis of other mental disorders, neurological disorders,
47
48 severe physical problems, and active substance abuse or dependence within the 3 months
49
50 prior to the study. All patients completed questionnaire booklets including the Chinese
51
52 version of Family Assessment Device (FAD-CV) and the Multidimensional Scale of
53
54
55
56
57
58
59
60
61
62
63
64
65

1 Perceived Social Support (MSPSS). This study was approved by the Institutional Review
2
3 Board of Tongji University School of Medicine. Written informed consent was obtained
4
5
6 from all subjects.
7

8 9 **Measures**

10 11 *Chinese Family Assessment Device (FAD-CV)*

12
13
14 The FAD-CV is based on the FAD, a 60-item measure assessing family functioning
15 based on the McMaster model (Epstein, Baldwin, & Bishop, 1983). According to the
16
17 McMaster Model of Family Functioning (Ryan, Epstein, Keitner, Miller & Bishop, 2005), the
18
19 FAD assesses six dimensions of family functioning including: problem solving (the ability of
20
21 the family to resolve problems to a level that maintains effective family functioning);
22
23 communication (how family members exchange information with each other); roles (how the
24
25 family allocates responsibilities to ensure fulfillment of family functions); affective
26
27 responsiveness (whether the family members experience and respond with a full spectrum of
28
29 feelings experienced by human beings); affective involvement (the family's ability to care
30
31 about and be interested in each other); behavior control (rules that the family adopts to
32
33 handle dangerous situations, to meet psychobiological needs and interpersonal socializing
34
35 behavior within and outside the family); and overall general functioning. The cutoff scores
36
37 for health/pathology have been established for the FAD for each dimension of family
38
39 functioning (Miller et al., 1994), with scores above the health/pathology cut-off indicating
40
41 unhealthy functioning. On the overall general functioning, a score of 2.0 or higher indicates
42
43 problematic family functioning. The FAD was translated into Chinese, and back translated
44
45 into English. The back translation was reviewed by the originators of the FAD and items
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1 were retranslated to ensure that they reflected the original meaning. The validity and
2
3 reliability of the Chinese FAD has been demonstrated (Shek, 2001; Shek, 2002; Ma et al.,
4
5
6 2009). The test-retest reliability is 0.53-0.81, and the alpha value of reliability is
7
8
9 0.53-0.94.

10 *The Multidimensional Scale of Perceived Social Support (MSPSS)*

11
12
13
14 The MSPSS (Zimet, Powell, Farley, Werkman, & Berkoff, 1990) is a 12-item
15
16 self-report assessment with a seven point scale (from 1=strongly disagree to 7=strongly agree)
17
18
19 that measures perceptions of social support in the areas of friends, family and significant
20
21
22 others. The psychometric properties of the MSPSS were previously investigated in a
23
24
25 Chinese sample in Hong Kong (Cheng & Chan, 2004; Chou, 2000). The MSPSS
26
27
28 emphasizes the subjective feeling of social support which plays a significant role in
29
30
31 depressive symptoms. The internal consistency (Cronbach's alpha) of MSPSS was 0.89
32
33
34 (Chou, 2000).

35 **Statistical analysis**

36
37
38
39 All analyses were performed using the Statistical Package for Social Sciences (SPSS)
40
41
42 software (version 16.0). Chi-square and t-test analyses were performed to determine
43
44
45 whether there were significant differences between men and women on demographic
46
47
48 variables, the FAD-CV scores and the MSPSS scores. The correlations between FAD-CV
49
50
51 scores and MSPSS scores were calculated for men and women separately using Pearson's
52
53
54 correlation analysis. For all tests the statistical significance level was set at $p < 0.05$.

55 **RESULTS**

56 *The demographic characteristics among female and male patients with depression*

57
58
59
60
61
62
63
64
65

1 Preliminary analyses demonstrated no significant differences between men and
2
3 women with depression on any demographic variables (Table 1). Of the 100 participants,
4
5 66% (n=66) were women and 34% (n=34) were men. The mean age for women was 42.38
6
7 (SD=16.31) years; the mean years of education (i.e. 1 is equivalent to 1st grade) was 10.70
8
9 (SD=3.49) years; forty-five female participants were married for a mean of 18.93 (SD=14.66)
10
11 years. Also, the mean age for men was 39.38 (SD=13.98) years; the mean years of education
12
13 was 11.88 (SD=4.18) years; twenty-three male patients were married for a mean of 15.31
14
15 (SD=12.98) years. Although no significant differences ($p>.05$) were found between men and
16
17 women on age of onset of major depressive disorder (MDD), interesting differences did
18
19 emerge: younger age of onset of major depressive disorder was indicated for men (37.82
20
21 years) than women (39.73) and more frequent single and recurrent episodes of major
22
23 depressive disorder were indicated for women than men (see Table 1).
24
25
26
27
28
29
30
31

32 *Family functioning and perceived social support in women and men with depression*

33
34 All dimensions of the FAD-CV scale (problem solving, communication, roles,
35
36 affective responsiveness, affective involvement, behavioral control, and general functioning)
37
38 were above the health/pathology cutoff score for both men and women, indicating
39
40 problematic family functioning. Results also showed no significant differences on all
41
42 dimensions of the FAD-CV scale scores and MSPSS scores (see Table 2). There were no
43
44 significant differences of FAD-CV scores and MSPSS scores between men and women.
45
46
47
48
49
50
51

52 *Correlation between family functioning and social support in women and men with* 53 54 55 56 *depression*

57
58 The results showed statistical significance in the correlation between FAD-CV scores
59
60
61
62
63
64
65

1 and MSPSS scores for women with depression, but not for men (see Table 3). Perceived
2
3 social support scores showed significant association with family functioning for women, but
4
5 this was not the case for men. Findings suggested that perceived social support was not
6
7 significantly correlated with family functioning. Moderate positive correlation ($.3 < |r| < .07$)
8
9 was indicated for the relationship between family functioning and social support of family
10
11 and significant others in women.
12
13
14
15

16 DISCUSSION

17
18 This study extends the research that explores the characteristics of family functioning
19
20 and social support for depressed men and women. No significant differences by gender and
21
22 sociodemographic variables were found in the relationship between family functioning and
23
24 social support. Also, results indicated no significant differences between men and women
25
26 in perceived family function. However, what is interesting is that the scores from all
27
28 dimensions of family functioning for both men and women were above the health/pathology
29
30 cutoff range, indicating that depressed men and women in our sample all experienced
31
32 unhealthy family functioning. Higher scores indicate a greater degree of dysfunction.
33
34
35
36
37
38
39
40
41

42 Prior research has indicated differences in affective responses between men and women
43
44 with depression in the United States. Febres and colleagues (2011) found that the affective
45
46 response of the FAD scores for men was higher than women, which suggested poorer
47
48 functioning in this area of family life in men with depression. However, our results are
49
50 consistent with other research (Zlotnick et al., 2000), which indicated that impaired family
51
52 functioning influenced by depression does not differ between men and women. Our
53
54 findings did not reveal any significant differences by gender on perceived family functioning
55
56
57
58
59
60
61
62
63
64
65

1 and social support. Our findings did not reveal any significant differences by gender on
2
3 perceived family functioning and social support, which is incompatible with former
4
5
6 researches, which could be resulted from small sample. We plan to enlarge the sample in
7
8
9 the future research.

10
11 Our previous research showed that depressed patients including men and women
12
13 both perceived poorer social support compared with healthy controls (Wang, et al.,
14
15 2012c), and there was a significant difference in perceived social support between
16
17 depressed patients and normal controls, which suggests patients with depression could
18
19 need more social support. Also, the perceived social support among the older people
20
21 with depression was lower than those among healthy older people (Wang & Zhao, 2012a),
22
23 which suggests that more social support are needed to help improve the quality of life
24
25
26
27
28 among older people with depression.
29
30
31

32
33 Moreover, men and women with depression differed in the correlations between
34
35 family functioning and perceived social support. For example, there were positive
36
37 correlations between family functioning and perceived social support for women. Social
38
39 support from family and significant others plays an important role in the perceived family
40
41 functioning for women with depression in China. In Chinese culture, the variable of
42
43 “significant others” may mean the extended family including the participants’ parents,
44
45
46
47 siblings and other relatives. Even adult children still have a close relationship with their
48
49
50 extended family (as compared with Western families) and may seek help more readily from
51
52
53 them when they face difficulties. Women in our study indicated more emotional bonds and
54
55
56 relationships with other people. Previous studies showed women emphasized family
57
58
59
60
61
62
63
64
65

1 harmony more than men, and they were more influenced by family relationships and family
2
3 functioning.
4

5
6 For men with depression, the results showed there were no correlations between the
7
8 FAD-CV scores and MSPSS scores, which suggest the perceived family functioning by men
9
10 with depression was not directly associated with their perceived social support. Previous
11
12 studies proposed that men are more likely to be socialized to avoid introspection, feelings of
13
14 disempowerment, and discouraged to recognize mental health problems (Kilmartin, 2005).
15
16
17 The depression of men may stem from financial factors more than from family issues
18
19
20 (Sarmiento & Cardemil, 2009), and men may tend to focus on their own individual abilities
21
22
23 rather than the social support from others. Social norms may influence the expression of
24
25
26 depression for men and their subjective understanding of depression (Mahalik, 2008). For
27
28
29 example, men do not tend to experience some depressive symptoms such as talking about
30
31
32 feeling sad and crying, and may think they are not depressed but just stressed or angry
33
34
35 (Mahalik, 2008). Men may have less knowledge and more misconceptions about
36
37
38 depression, leading to a higher degree of stigma (Wang, Fick, Adair, & Lai, 2007). Women
39
40
41 with depression tend to have a negative view of self, compared with men (Sakamoto, 2000),
42
43
44 and a more relational concept of self than men (Seidlitz & Diener, 1998). Women also tend
45
46
47 to put more emphasis on relationships (Cyranowski, Frank, Young, & Shear, 2000). In
48
49
50 addition, women may be more influenced by problematic relationships than men (Hammen,
51
52
53 1999). Marital conflict may have more of an impact on women due to greater interpersonal
54
55
56 connectedness, and men may be less impacted by conflictual relationships (Seidlitz & Diener,
57
58
59 1998; Boughton & Street, 2007). Generally speaking, social support may have less
60
61
62
63
64
65

1 influence for men than for women (Barnett & Gotlib, 1990). Thus, women with depression
2
3 may benefit more from addressing social support in the treatment of problems such as
4
5 depression (Nolen-Hoeksema, Larson, & Grayson, 1999).
6
7

8
9 In addition, there are some characters in the gendered division of labour between
10
11 men and women at home in Chinese traditional culture, that men mainly are in charge of
12
13 “outside” such as earning money and women mainly “inside” such as household. For
14
15 example, some research showed that a high degree of gender segregation among
16
17 rural-urban migrants exists in the urban, that rural women's urban work opportunities are
18
19 short-limited, and that women migrants are relegated back to the village and to the
20
21 ‘inside’ (Fan, 2003). Therefore, men could bear more burden than women in China,
22
23 such as economic responsibilities and so on, so that the perceived family functioning of
24
25 depressed men could not related to their social support.
26
27
28
29
30
31
32

33
34 Our findings indicate clinicians in China should consider including some family
35
36 interventions when treating depression, because only targeting depressive symptoms may not
37
38 ameliorate the family problems these patients are experiencing. This supports the findings
39
40 of Leung, Chen, Lue, and Hsu (2007) regarding the importance of family involvement in
41
42 treatment of depression symptoms in older people in China. Western versions of family
43
44 therapy were introduced in China in the early 1980's (Glick, 1982; Hampson, & Beavers,
45
46 1989) and many versions of Western family therapy have been adapted for the Chinese
47
48 context (Yang & Pearson, 2002). The research and practice of family therapy has
49
50 undergone rapid development in the last decade (Miller & Fang, 2012; Deng, Lin, Lan &
51
52 Fang, 2013). The improvement of family functioning is likely to be a significant aid in the
53
54
55
56
57
58
59
60
61
62
63
64
65

1 effort to provide effective treatment for depression in Chinese patients. Also, family
2
3 dysfunction for women may be related to their social support from significant others such as
4
5 extended family members including parents, siblings and other relatives. Because women
6
7 more often seek emotional and social support and the Chinese culture emphasizes the whole
8
9 family, including the extended family in treatment plans will more likely facilitate successful
10
11 outcome. On the other hand, our review of the literature and the results of our study
12
13 indicate that men tend to hide their emotions and that the social norm in China may not
14
15 encourage the expression of fragile emotions (Cheung & Chan, 2002; Wang. & Crane, 1994).
16
17 Our findings also indicate that it may be important for Chinese clinicians to consider ways to
18
19 encourage their depressed clients to explore new ways to share their feelings with family
20
21 members and significant others.
22
23
24
25
26
27
28
29
30

31 The present study has several limitations. The sample is limited and the study did
32
33 not assess the severity of depression, which could influence family functioning for depressed
34
35 patients. Participants were selected from one hospital in Shanghai, and therefore limit the
36
37 generalizability of the findings, although the population of Shanghai is comprised of people
38
39 from across China. Shanghai is the largest industrial and commercial city in China, with
40
41 over 18.8 million people (Shanghai Municipal Government, 2009). Future studies should
42
43 enlarge the sample and include assessing the severity of depression. The authors hope that
44
45 the findings can draw some implications for the treatment of depression for men and women,
46
47 and generate valuable insights regarding the relationship between family functioning and
48
49 social support. Other Chinese scholars have emphasized the likelihood that family therapy
50
51 and family based interventions have special applicability in the Chinese context when
52
53
54
55
56
57
58
59
60
61
62
63
64
65

1 compared with Western treatment strategies due to the more collectivist nature of the culture
2
3 (Miller & Fang, in 2012; Liu, Zhao, & Miller, 2012).
4
5

6 It is important to assess various dimensions of family functioning for depressed
7
8 patients because they provide specific information on how depression influences family
9
10 dysfunction. Clinicians may focus on different points of patients' perceived social support
11
12 in men and women with depression. It is necessary to replicate these findings and further
13
14 explore possible explanations for the relationship between family functioning and social
15
16 support for depressed patients in China.
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

References

- 1
2
3 Addis, M. (2008). Gender and depression in men. *Journal of Clinical Psychology, 15*,
4
5
6 153-168.
7
8
9 Allison, R. E. (1997). The concept of harmony in Chuang Tza. In S. H. Liu & R. E. Allison
10
11 (Eds.), *Harmony and strife: Contemporary perspectives, east and west* (pp. 169-186).
12
13 Hong Kong: The Chinese University Press.
14
15
16 American Psychiatric Association. (2000). *Diagnostic and statistical manual of mental*
17
18 *disorders*, text revision (4th ed.). Washington, DC: American Psychiatric Association.
19
20
21
22 Barnett, P. A., & Gotlib, I. H. (1990). Cognitive vulnerability to depressive symptoms
23
24 among men and women. *Cognitive Therapy and Research, 14*, 47 – 61.
25
26
27 Bildt, C., & Michelsen, H. (2002). Gender differences in the effects from working
28
29 conditions on mental health: A 4-year follow-up. *International Archives of*
30
31 *Occupational and Environmental Health, 75*, 252–258.
32
33
34 Boughton, S., & Street, H. (2007). Integrated review of the social and psychological gender
35
36 differences in depression. *Australian Psychologist, 42*, 187-197.
37
38
39
40
41 Bouma, E. M., Ormel, J., Verhulst, & Oldehinkel, A. J. (2008). Stressful life events and
42
43 depressive problems in early adolescent boys and girls: the influence of parental
44
45 depression, temperament and family environment. *Journal of Affective Disorders, 105*,
46
47
48 185-193.
49
50
51
52 Burt, K. B., Van Dulmen, M. H. M., Carlivati, J., Egeland, B., Sroufe, L. A., Forman, D. R.,
53
54
55 Appleyard, K., & Carlson, E. A. (2005). Mediating links between maternal depression
56
57 and offspring psychopathology: The importance of independent data. *Journal of Child*
58
59
60
61
62
63
64
65

1 Psychology and Psychiatry, 46, 490–499.

2
3 Cheng, S. & Chan, C. (2004). Assessing Chinese adolescents' social support. The
4 multidimensional scale of perceived social support. *Personality and Individual*
5
6 *Differences*, 28, 299-307.

7
8
9
10
11 Cheung, G. and Chan, C. (2002). The Satir model and cultural sensitivity: A Hong Kong
12 reflection. *Contemporary Family Therapy*, 24, pp.199-215

13
14
15
16 Chou K (2000). Assessing Chinese adolescents' social support: The Multidimensional
17
18 Scale of Perceived Social Support. *Personality and Individual Differences*, 28:
19
20
21 299–307.

22
23
24 Cialdini, R. B., & Trost, M. R. (1999). Social influence: Social norms, conformity and
25
26 compliance. In D. Gilbert, S. Fiske, & G. Lindzey (Eds.), *The handbook of social*
27
28 *psychology*, volume 2 (pp. 151–192). Boston: McGraw-Hill.

29
30
31
32 Cummings, E. M., Keller, P. S., & Davies, P. T. (2005). Towards a family process model of
33
34
35 maternal and paternal depressive symptoms: Exploring multiple relations with child
36
37
38 and family functions. *Journal of Child Psychology and Psychiatry*, 46, 479–489.

39
40
41 Cyranowski, J., Frank, E., Young, E., & Shear, M. (2000). Adolescent onset of the gender
42
43
44 difference in lifetime rates of major depression: A theoretical model. *Archives of*
45
46 *General Psychiatry*, 57(1), 21-27.

47
48
49 Deng, L, Lin, X, Lan, J, & Fang, X. (2013). Family therapy in China. *Contemporary*
50
51 *Family Therapy*, 35(2), pp. 420-436.

52
53
54
55
56
57 Epstein, N., Baldwin, L., & Bishop, D. (1983). The McMaster family assessment device.
58
59
60
61
62
63
64
65
Journal of Marital and Family Therapy, 9, 171-180.

66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

International Journal of Urban and Regional Research, 27(1), 24-27.

- 1
2
3 Febres, J., Rossi, R., Gaudiano, B.A, & Miller, I. W. (2011). Differential relationship
4
5
6 between depression severity and patients' perceived family functioning in women
7
8
9 versus in men. *The Journal of Nervous and Mental Disease*, 199(7), 449-454.
10
- 11 Foster, C. E., Webster, M. C., Weissman, M. M, Pilowsky, D. J., Wickramaratne, P. J., Rush,
12
13 A. J., Hughes, C.W., Garber, J., Malloy, E., Cerda, G., Kornstein, S. G, Alpert, J. E.,
14
15
16 Wisniewski, S. R., Trivedi, M. H., Fava, M., & King C. A. (2008). Course and
17
18
19 Severity of Maternal Depression: Associations with Family Functioning and Child
20
21
22 Adjustment. *Journal of Youth Adolescence*, 37, 906–916.
23
24
- 25 Gladstone, T. & Beardslee, W. (2009). The prevention of depression in children and
26
27
28 adolescents: A review. *Canadian Journal of Psychiatry*, 54, 212-221.
29
- 30 Glick, I. (1982). A family therapist in the People's Republic of China. *Contemporary*
31
32
33 *Family Therapy*, 4(3). pp. 177-183.
34
- 35 Hammen, C. (1999). The emergence of an interpersonal approach to depression. In T.
36
37
38 Joiner, & J. C. Coyne (Eds.), *The interactional nature of depression* (pp. 21 – 35).
39
40
41 Washington, DC: American Psychological Association.
42
- 43 Hampson, R. & Beavers, W. (1989). Family therapy in the Peoples Republic of China:
44
45
46 An update. *Contemporary Family Therapy*, 11(4).
47
- 48 Hankin, B. L., & Abramson, L. Y. (2001). Development of gender differences in depression:
49
50
51 An elaborated cognitive vulnerability-transactional stress theory. *Psychological*
52
53
54 *Bulletin*, 127, 773 – 796.
55
- 56 Herr, N., Hammen, C., & Brennan, P. (2007). Current and past depression as predictors of
57
58
59 family functioning: A comparison of men and women in a community sample.
60
61
62
63
64
65

1 *Journal of Family Psychology, 21*, 694-702.

2
3 Ho, D. Y. F. (1996). Filial piety and its psychological consequences. In M. H. Bond (Ed.),
4
5 *The Handbook of Chinese psychology* (pp. 155–165). New York: Oxford University
6
7 Press.
8
9

10
11 Hovey, J. D., & Magana, C. E. (2000). Acculturative stress, anxiety, and depression among
12
13 Mexican farmworkers in the midwest United States. *Journal of Immigrant Health,*
14
15 2(3), 119–131.
16
17

18
19 Hu, T., He, Y., Zhang, M., & Cheng, N. (2007). Economic costs of depression in China.
20
21 *Social Psychiatry & Psychiatric Epidemiology, 42*(10), 110-116.
22
23

24
25 Hughes, E. & Gullone, E. (2008). Internalizing symptoms and disorders in families of
26
27 adolescents: A review of family systems literature. *Clinical Psychology Review,*
28
29 28, 92-117.
30
31

32
33 Kendler, K. S., Myers, J., & Prescott, C.A. (2005). Sex differences in the relationship
34
35 between social support and risk for major depression: A longitudinal study of
36
37 opposite-sex twin pairs. *American Journal of Psychiatry, 162*, 250–256.
38
39

40
41 Kilmartin, C. (2005). Depression in men: Communication, diagnosis, and therapy.
42
43 *Journal of Men's Health and Gender, 2*, 95-99.
44
45

46
47 Kleinman, A. (2004). Culture and depression. *New England Journal of Medicine, 351*(10),
48
49 951-953.
50
51

52
53 Kornstein, S., Schatzberg, A., Thase, M., Yonkers, K., McCullough, J., Keitner, G.,
54
55 Gelenberg, A., Ryan, C., Hess, A., Harrison, W., Davis, S., & Keller, M. (2000).
56
57

1 Gender differences in chronic major and double depression. *Journal of Affective*
2
3 *Disorders*, 60(1), 1-11.
4

5
6 Lesch, K. P. (2004). Gene-environment interaction and the genetics of depression. *Journal*
7
8 *of Psychiatry Neuroscience*, 29, 174-184.
9

10
11 Leung, K., Chen, C., Lue, B., & Hsu, S. (2007). Social support and family functioning on
12
13 psychological symptoms in elderly Chinese. *Archives of Gerontology & Geriatrics*,
14
15 44(2), 203-213.
16
17

18
19 Liu, L., Zhao, X., & Miller, J. K. (2012). Use of metaphors in Chinese family therapy:
20
21 A qualitative study. *Journal of Family Therapy*.
22
23 doi: 10.1111/j.1467-6427.2012.00582.x
24
25
26

27
28 Ma, J. L., Wong, T. K., & Lau, Y. K. (2009). Sex Differences in Perceived Family
29
30 Functioning and Family Resources in Hong Kong Families: Implications for
31
32 Social Work Practice. *Asian Social Work and Policy Review*, 3, 155-174.
33
34
35
36

37 Mahalik, J. R. (2008). A biopsychosocial perspective on men's depression. *Journal of*
38
39 *Clinical Psychology*, 15, 174-177.
40
41

42
43 Milan, S., Snow, S. & Belay, S. (2009). Depressive symptoms in mothers and children:
44
45 Preschool attachment as a moderator of risk. *Developmental Psychology*, 45,
46
47 1019-1033.
48
49

50
51 Miller, I. W., Kabacoff, R. I., Epstein, N. B., Bishop, D. S., Keitner, G. I., Baldwin, L. M.
52
53 & Van Der Spuy, H. I. (1994). The development of a clinical rating scale for the
54
55 McMaster model of family functioning. *Family Process*, 33, 53-69.
56
57

58
59 Miller, I.W., Epstein, N. B, Bishop, D. S, Keitner, G. I. (1985). The McMaster family
60
61
62
63
64
65

1 assessment device: Reliability and validity. *Journal of Marital and Family Therapy*,
2
3 *11*, 345-356.
4

5
6 Miller, J. K. & Fang, X. (2012). Marriage and family therapy in the Peoples Republic of
7
8 China: Current issues and challenges. *Journal of Family Psychotherapy*, *23*,
9
10 173-183.
11
12

13
14 Morriss, R.K., & Morriss, E.E. (2000). Contextual evaluation of social adversity in the
15
16 management of depressive disorder. *Advances in Psychiatric Treatment*, *6*, 423–431.
17
18

19
20 Nolen-Hoeksema, S., Larson, J., & Grayson, C. (1999). Explaining the gender difference in
21
22 depressive symptoms. *Journal of Personality and Social Psychology*, *77*, 1061 –
23
24 1072.
25
26

27
28 Restifo, K. & Bögels, S. (2009). Family processes in the development of youth
29
30 depression: Translating the evidence to treatment. *Clinical Psychology Review*, *29*,
31
32 294–316.
33
34

35
36 Ryan, C. E., Epstein, N. B., Keitner, G. I., Miller, I. W. & Bishop, D. S. (2005).
37
38 *Evaluating and treating families: The McMaster approach*. New York: Routledge
39
40 Taylor & Francis Group.
41
42

43
44 Ryder, A. G., Yang, J., Zhu, X.Z., Yao, S. Q., Yi, J. Y., Heine, S. J., & Bagby, R. M. (2008).
45
46 The cultural shaping of depression: somatic symptoms in China, psychological
47
48 symptoms in North America? *Journal of Abnormal Psychology*, *2*, 300–313.
49
50

51
52 Sakamoto, S. (2000). Self-focus and depression: The three phase model. *Behavioural and*
53
54 *Cognitive Psychotherapy*, *28*, 45 – 61.
55
56

57
58 Sander, J. & McCarty, C. (2005). Youth depression in the family context: Familial risk
59
60
61
62
63
64
65

1 factors and models of treatment. *Clinical Child and Family Psychology Review*, 8,
2
3 203-219.
4

5
6 Sarmiento, I., & Cardemil, E.V. (2009). Family functioning and depression in low-income
7
8 Latino couples. *Journal of Marital and Family Therapy*, 35, 432–445.
9

10
11 Schraedley, P. K., Gotlib, I. H., & Hayward, C. (1999). Gender differences in correlates of
12
13 depressive symptoms in adolescents. *Journal of Adolescent Health*, 25, 98–108.
14

15
16 Seidlitz, L., & Diener, E. (1998). Sex differences in the recall of affective experiences.
17
18
19 *Journal of Personality and Social Psychology*, 74, 262 – 271.
20

21
22 Shanghai Municipal Government (2009). Shanghai & Technical Publishers. *The*
23
24 *Encyclopedia for Shanghai*. Retrieved from
25
26 <http://zhuanti.shanghai.gov.cn/encyclopedia/en/>.
27
28

29
30 Shek, D. T. (2002). Assessment of family functioning in Chinese adolescents: The Chinese
31
32 version of the family assessment device. *Research on Social Work Practice*, 12,
33
34 502-524.
35
36

37
38 Shek, D. T., & Chan, L. K. (1998). Perceptions of a happy family amongst Chinese
39
40 adolescents and their parents. *Journal of Youth Studies*, 1, 178-189.
41
42

43
44 Shek, D. T., & Lai, M. F. (2000). Conceptions of an ideal family in Confucian thoughts:
45
46 Implications for individual and family counseling. *Asian Journal of Counseling*, 7,
47
48 85-104.
49
50

51
52 Silberg, J. L., Maes, H., & Eaves, L. J. (2010). Genetic and environmental influences on
53
54 the transmission of parental depression to children's depression and conduct
55
56
57
58
59
60
61
62
63
64
65

1 disturbance: an extended children of twins study. *Journal of Child Psychology and*
2
3 *Psychiatry, 51, 734-744.*
4

5
6 Taylor, S. E, Way, B. M, Welch, W.T., Hilmert, C. J., Lehman, B. J., & Eisenberger, N. I.

7
8 (2006). Early family environment, current adversity, the serotonin transporter
9 promoter polymorphism, and depressive symptomatology. *Biological Psychiatry, 60,*
10
11
12
13
14
15
16 671-676.

17 Ting-Toomey, S. (1988). Intercultural conflicts: A face-negotiation theory. In Y. Kim &

18
19
20
21
22
23 W. Gudykunst (Eds.), *Theories in intercultural communication* (pp. 213-235).

24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
Newbury Park, CA: Sage.

Uebelacker, L. A, Strong, D., Weinstock, L., & Miller, I.W. (2009). Use of item response

theory to understand differential functioning of DSM-IV major depression symptoms
by race, ethnicity, and gender. *Psychological Medicine, 39, 591-601.*

Wang, J. K., & Zhao, X. D. (2012a). Family functioning, social support, and quality of life

for Chinese empty nest older people with depression. *International Journal of*
Geriatric Psychiatry, 27 (1), 1204-1206.

Wang, J. K., & Zhao, X. D. (2012b). Family functioning and social support for older

patients with depression in an urban area of Shanghai, China. *Archives of Gerontology*
and Geriatrics, 55, 574–579.

Wang, J. K., Zhao, X. D., Liu, L., & Ma X. Q. (2012c). Family Functioning, Social Support

and Depression in a Chinese Population. *Psychopathology, 45(5), 334–336.*

Wang, J. L., Fick, G, Adair, A., & Lai, D. (2007). Gender specific correlates of stigma

toward depression in a Canadian general population sample. *Journal of Affective*

1 *Disorders, 103* , 91–97.

2
3 Wang, L. & Crane, R. (1994). Marriage and family therapy with people from China.
4
5 *Contemporary Family Therapy*, 16, 1, pp. 25-37.

6
7 Warren, L. (1983). Male intolerance of depression: A review with implications for
8
9
10 psychotherapy. *Clinical Psychology Review*, 3, 147-156.

11
12 Whisman, M. A. (2001). The association between depression and marital dissatisfaction. In
13
14 S. R. H. Beach (Ed.), *Marital and family processes in depression: A scientific*
15
16 *foundation for clinical practice* (pp. 3-24). Washington, DC: American Psychological
17
18
19 Association.

20
21
22
23
24 Wilhelm, K., Parker, G., Geerlings, L., & Wedgwood, L. (2008). Women and depression: A
25
26 30 year learning curve. *Australian New Zealand Journal of Psychiatry*, 42, 3-12.

27
28
29 Wilson, S., & Durbin, E. (2010). Effects of paternal depression on fathers' parenting
30
31 behaviors: A meta-analytic review. *Clinical Psychology Review*, 30, 167-180.

32
33
34 Yang, L. H. and Pearson, V. J. (2002). Understanding families in their own context:
35
36 Schizophrenia and structural family therapy in Beijing. *Contemporary Family*
37
38 *Therapy*, 24, 233-257.

39
40
41 Yen, S., Robins, C. J., & Lin, N. (2000). A cross-cultural comparison of depressive
42
43 symptom manifestation: China and United States. *Journal of Counseling and Clinical*
44
45 *Psychology*, 68(6), 993-999.

46
47
48
49 Zimet, G. D, Powell, S. S., Farley, G. K, Werkman, S., & Berkoff, K. A. (1990).
50
51 Psychometric characteristics of the multidimensional scale of perceived social support.
52
53 *Journal of Personality Assessment*, 55, 610-617.

54
55
56
57
58 Zlotnick C., Kohn, R., Keitner, G., & Della Grotta, S. (2000). The relationship between
59
60
61
62
63
64
65

1 quality of interpersonal relationships and major depressive disorder: Findings from
2
3 the National Comorbidity Survey. *Journal of Affective Disorders*, 59, 205-215.
4
5

6 Shek, D. T. (2001). Chinese young adults and their parents' vistas on a contented household:
7
8 Implications for household cure. *Household Cure*, 28, 73-103.
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65

Table 1. *Sociodemographic characteristics*

Items	Women	Men	Total	P
N	66	34	100	-
Age, mean (SD)	42.38(16.31)	39.38(13.98)	41.36(15.55)	0.364
Education, mean (SD)	10.70(3.49)	11.88(4.18)	11.10(3.76)	0.136
Married (%)	45(68.2)	23(67.6)	68(68.0)	-
Separated (%)	2(3.0)	0	2(2.0)	-
Single (%)	15(22.7)	11(32.4)	26(26.0)	-
Widowed (%)	4(6.1)	0	4(4.0)	-
Years married, mean (SD)	18.93(14.66)	15.31(12.98)	17.74(14.15)	0.262
MDD, single episode, n (%)	32(48.5)	13(38.2)	53(53.0)	-
MDD, recurrent, n (%)	34(51.5)	21(61.8)	47(47.0)	-
Age of onset of MDD, mean (SD)	39.73(15.96)	37.82(14.04)	39.11(15.22)	0.575

MDD indicates Major Depressive Disorder

Table 2. *Family functioning and perceived social support in women and men with depression*

Items	Women (n = 66), Mean (SD)	Men (n = 34), Mean (SD)	t	p
Family functioning				
PS	<u>2.49</u> (0.32)	<u>2.47</u> (0.27)	0.339	0.735
CM	<u>2.46</u> (0.38)	<u>2.50</u> (0.33)	0.468	0.641
RL	<u>2.39</u> (0.31)	<u>2.40</u> (0.24)	0.133	0.894
AR	<u>2.46</u> (0.42)	<u>2.58</u> (0.30)	1.456	0.149
AI	<u>2.23</u> (0.48)	<u>2.31</u> (0.45)	0.740	0.461
BC	<u>2.68</u> (0.25)	<u>2.60</u> (0.28)	1.464	0.147
GF	<u>2.35</u> (0.37)	<u>2.36</u> (0.29)	0.150	0.881
MSPSS	48.24(14.47)	50.06(12.87)	0.617	0.539
Family	14.00(5.83)	15.21(3.58)	1.102	0.273
Friend	21.21(6.29)	20.44(5.77)	0.597	0.552
Significant others	13.23(5.84)	14.71(5.33)	1.234	0.220

PS=Problem Solving; CM=Communication; RL=Roles; AR=Affective Responsiveness; AI= Affective Involvement; BC=Behavioral Control; GF=General Functioning. MSPSS= Multidimensional Scale of Perceived Social Support. Underline indicates above the health/pathology cut-off score. (Above cutoff score indicates problematic family functioning).

Table 3. Correlation coefficients on the relationship between family functioning and social support by gender

Item	Women (n = 66), Mean (SD)				Men (n = 34), Mean (SD)			
	MSPSS	Family	Friend	Significant others	MSPSS	Family	Friend	Significant others
PS	.301*	.379**	.022	.355**	.105	.148	.034	.020
CM	.455**	.536**	.101	.518**	.087	.057	.140	.085
RL	.266*	.343**	.029	.358**	.072	.010	.145	.118
AR	.458**	.577**	.055	.543**	.019	.165	.169	.052
AI	.239	.437**	.229	.423**	.159	.222	.133	.160
BC	.469**	.382**	.384*	.385**	.163	.209	.189	.029
GF	.430**	.594**	.077	.570**	.048	.230	.127	.176

PS=Problem Solving; CM=Communication; RL=Roles; AR=Affective Responsiveness; AI= Affective Involvement; BC=Behavioral Control; GF=General Functioning;
MSPSS= Multidimensional Scale of Perceived Social Support

*p<0.05; **p<0.01