

Supplemental Table 1. 20-items of the Centers for Epidemiologic Studies-Depression Scale (CES-D)

1. I was bothered by things that usually don't bother me.
2. I did not feel like eating; my appetite was poor
3. I felt that I could not shake off the blues even with help from my family or friends.
4. I had trouble keeping my mind on what I was doing.
5. I was happy.
6. I felt depressed.
7. I felt that everything I did was an effort.
8. I felt hopeful about the future.
9. I thought my life had been a failure.
10. I felt I was just as good as other people
11. My sleep was restless. I had a lot of trouble getting to sleep.
12. I felt fearful.
13. I talked less than usual.
14. I felt lonely.
15. I enjoyed life.
16. People were unfriendly.
17. I had crying spells.
18. I felt sad.
19. I felt that people disliked me.
20. I could not get going.

Supplemental Table 2. Questions for measuring positive and negative social support

Ask to the following questions on feeling about the people around you.

<Positive social support>

1. There is a person whom I can confide in
2. There is a person who always care or worry about me
3. There is a person whom I can discuss with when I have important or difficult matters
4. There is a person who nurses me and give a help in housework when I am ill
5. There is a person who gives or lends it when I need something
6. There is a person who takes a time for me and help with housework whenever I request

<Negative social support>

1. There is a person who object to or meddle with what I do
2. There is a person who blames me for all the problems I have
3. There is a person who forgets or ignores me
4. There is a person who gives you unwanted help and make me uncomfortable
5. There is a person who is indifferent to me and my affair
6. There is a person who turns down most of the time when I ask help

Supplemental table 3. Chi-square correlation test between positive and negative social support

		Positive support					
		Level 1		Level 2		Level 3	
		$\chi^2$ (P)	Phi	$\chi^2$ (P)	Phi	$\chi^2$ (P)	Phi
Negative support	Level 1	299.1(p<0.001)	-0.12	92.3(p<0.001)	0.07	273.7(p<0.001)	0.11
	Level 2	443.2(p<0.001)	-0.15	236.1(p<0.001)	0.11	202.5(p<0.001)	0.10
	Level 3	783.0(p<0.001)	0.19	347.5(p<0.001)	-0.13	474.5(p<0.001)	-0.15

Supplemental table 4. Association of other covariates and depressive symptom score (from Model 6 in Table 2)

	<b>Coeff.</b>	<b>S.E.</b>
<b>Currently married/co-residing</b>		
Never married	0.46	0.29
Separated/divorced	2.09***	0.25
Widowed	1.11***	0.22
Others	-0.90	1.16
<b>40≤age&lt;50(yrs)</b>		
50≤age<60	-0.20*	0.10
60≤age<70	-0.84***	0.14
<b>Male</b>		
Female	0.74***	0.11
<b>Non-manual</b>		
Service and sales workers	0.24	0.15
Manual	-0.18	0.16
Armed forces occupation	-1.98	1.28
Housewives	0.63***	0.15
Unemployed	0.32	0.20
Others	-0.50	0.64
<b>Primary school or below</b>		
High school graduate	-0.56***	0.13
College degree	-0.80***	0.18
Graduate school or higher	-1.17***	0.27

\*:p<0.05, \*\*: p<0.01, \*\*\* :p<0.001