**eTable 1.** Candidate indicators of community-level social capital in the JAGES 2013 cross-sectional study (53 indicators, n=702)

		Partial correlation <sup>a</sup>		
Indicators	Mean (SD)	SRH	GDS	
		(fair/poor)	(≥5)	
How often do you attend activities for the following groups.				
Volunteer groups ( $\% \ge$ once a week)	6.1 (3.2)	-0.069	-0.146***	
Volunteer groups $(\% \ge \text{once a month})^b$	12.6 (4.7)	-0.093*	-0.194***	
Sports groups/clubs (% ≥ once a week)	20.1 (7.1)	-0.210***	-0.314***	
Sports groups/clubs ( $\% \ge$ once a month) <sup>b</sup>	25.9 (8.3)	-0.233***	-0.355***	
Hobby activity group ( $\% \ge$ once a week)	19.4 (5.7)	-0.175***	-0.217***	
Hobby activity group ( $\% \ge$ once a month) <sup>b</sup>	34.3 (8.4)	-0.256***	-0.332***	
Senior citizen club ( $\% \ge$ once a week)	3.3 (2.8)	0.040	-0.058	
Senior citizen club ( $\% \ge$ once a month)	8.5 (5.6)	0.083*	-0.095*	
Community association ( $\% \ge$ once a week)	2.9 (2.5)	-0.054	0.029	
Community association ( $\% \ge$ once a month)	10.8 (5.8)	-0.027	0.024	
Study or cultural group ( $\% \ge$ once a week)	4.4 (2.8)	-0.143***	-0.133***	
Study or cultural group ( $\% \ge$ once a month) <sup>b</sup>	9.9 (4.6)	-0.144***	-0.205***	
Nursing care prevention activities ( $\% \ge$ once a week)	5.1 (2.7)	-0.007	-0.063	
Nursing care prevention activities ( $\% \ge$ once a month)	8.0 (4.0)	0.010	-0.115**	
Activities to teach skills or pass on experiences to others ( $\% \ge$ once a week)	3.6 (2.3)	-0.098**	-0.120**	
Activities to teach skills or pass on experiences to others ( $\% \ge$ once a month) <sup>b</sup>	6.2 (3.0)	-0.106**	-0.200***	
Local events; e.g. festivals, Bon festival dance ( $\% \ge$ once a week)	0.6(0.9)	-0.033	-0.059	
Local events; e.g. festivals, Bon festival dance ( $\% \ge$ once a month)	2.0 (1.8)	0.001	-0.038	
Activities to support older people requiring protection (% ≥ once a week)	2.3 (1.8)	0.021	0.001	
Activities to support older people requiring protection ( $\% \ge$ once a month)	4.2 (2.7)	-0.018	-0.024	
Activities to support older people requiring nursing care (% ≥ once a week)	2.1 (1.6)	0.006	0.018	
Activities to support older people requiring nursing care (% ≥ once a month)	3.5 (2.3)	-0.006	0.009	
Activities to support parents raising children ( $\% \ge$ once a week)	2.2 (1.6)	-0.045	-0.131***	
Activities to support parents raising children ( $\% \ge$ once a month)	3.5 (2.1)	0.013	0.057	
Local living arrangement improvement (beautification) activities (% ≥ once a week)	2.0 (1.8)	0.054	0.002	
Local living arrangement improvement (beautification) activities (% ≥ once a month)	5.5 (3.6)	-0.072	0.002	
Another group or organization ( $\% \ge$ once a week)	3.7 (2.5)	-0.072	0.006	
Another group or organization ( $\% \ge$ once a month)	8.5 (3.7)	-0.098*	-0.069	

$(\% \ge                                   $	How often do you see your friends?			
(% rarely)b         9.1 (3.8)         0.272***         0.372***           How many friends/acquaintances have you seen over the past month?         9.4 (4.1)         0.102**         0.149***           (% ≥ 10 persons)b         9.4 (3.1)         -0.140***         -0.255***           Do you have someone who listens to your concerns and complaints?         94.3 (2.7)         -0.049         -0.189***           (% any one or more)b         49.5 (5.8)         -0.089*         -0.098**           Do you listen to someone's concerns and complaints?         92.5 (2.9)         -0.154***         -0.265***           (% any one or more)b         92.5 (2.9)         -0.154***         -0.265***           (% any one or more)b         94.8 (5.5)         -0.093*         -0.143***           (% any one or more)b         94.7 (3.1)         -0.186***         -0.292***           (% any one or more)b         94.7 (3.1)         -0.186***         -0.292***           (% any one or more)b         94.7 (3.1)         -0.186***         -0.292***           (% any one or more)         80.2 (5.0)         -0.053         -0.051           (% any one or more)         80.2 (5.0)         -0.053         -0.027           What kind of close partnerships in daily life do you have with people in your engther of friend)         15.4 (9.)	$(\% \ge \text{once a week})$	48.7 (7.2)	-0.023	-0.050
How many friends/acquaintances have you seen over the past month?         4 (4.1)         0.102**         0.149**           (% ≥ 10 persons) <sup>6</sup> 34.3 (5.7)         −0.140***         −0.255***           Do you have someone who listens to your concerns and complaints?         94.3 (2.7)         −0.049         −0.189***           (% any one or more) <sup>6</sup> 94.5 (5.8)         −0.089**         −0.098**           Do you listen to someone's concerns and complaints?         25.5 (2.9)         −0.154***         −0.265***           (% any one or more) <sup>6</sup> 92.5 (2.9)         −0.154***         −0.265***           (% any one or more) <sup>6</sup> 94.7 (3.1)         −0.08**         −0.093**         −0.143***           Ob you lake someone who looks after you when you are sick for a few days?         89.4 (3.1)         −0.08**         −0.092***           (% any one or more) <sup>6</sup> 94.7 (3.1)         −0.08**         −0.092***           (% any one or more) <sup>6</sup> 94.7 (3.1)         −0.08**         −0.092**           (% any one or more) <sup>6</sup> 94.7 (3.1)         −0.02**         −0.02**           (% any one or more) <sup>6</sup> 94.7 (3.1)         −0.02**         −0.02**           (% any one or more) <sup>6</sup> 94.7 (3.1)         −0.02**         −0.02**           (% any one or more) <sup>6</sup>	$(\% \ge \text{one to three times a month})$	71.3 (6.3)	-0.096*	-0.148**
(% zero) (% zero) (% ≥ 10 persons) (% ≥ 10 persons) (% ≥ 10 persons) (% ≥ 10 persons) (% any one or more)	(% rarely) <sup>b</sup>	9.1 (3.8)	0.272***	0.372***
(%≥10 persons) <sup>b</sup> 3.3 (5.7)         -0.140***         -0.255***           Do you have someone who listens to your concerns and complaints? (% any one or more) <sup>b</sup> (% neighbor or friend)         94.3 (2.7)         -0.049         -0.189***           (% any one or more) <sup>b</sup> (% neighbor or friend)         49.5 (5.8)         -0.089**         -0.098**           Do you listen to someone's concerns and complaints? (% any one or more) <sup>b</sup> (% neighbor or friend)         92.5 (2.9)         -0.154***         -0.265***           (% neighbor or friend)         94.7 (3.1)         -0.093*         -0.143***           Do you have someone who looks after you when you are sick for a few days? (% neighbor or friend)         94.7 (3.1)         -0.028*         0.005*           Do you look after someone when he/she is sick for a few days? (% any one or more)         94.7 (3.1)         -0.028*         0.005*           (% any one or more)         80.2 (5.0)         -0.053*         -0.081*           (% any one or more)         80.2 (5.0)         -0.053*         -0.081*           (% any one or more)         80.2 (5.0)         -0.053*         -0.081*           (% neighbor or friend)         85.37.0         -0.005*         -0.081*           (% neighbor or friend)         15.4 (9.4)         0.066*         0.019*           (% nutual consultation or sultation is standing and chatting frequen	• • • • • • • • • • • • • • • • • • • •			
Do you have someone who listens to your concerns and complaints?             (% any one or more) <sup>6</sup> (% neighbor or friend)		` ′		
(% any one or more) <sup>b</sup> 94.3 (2.7)         -0.049         -0.189***           (% neighbor or friend)         49.5 (5.8)         -0.089*         -0.098**           Do you listen to someone's concerns and complaints?         -0.265***         -0.265***           (% neighbor or friend)         49.8 (5.5)         -0.093*         -0.143***           Do you have someone who looks after you when you are sick for a few days?         94.7 (3.1)         -0.186***         -0.292***           (% any one or more) <sup>b</sup> 94.7 (3.1)         -0.186***         -0.095*           (% any one or more)         94.7 (3.1)         -0.186***         -0.292***           (% any one or more)         94.7 (3.1)         -0.186***         -0.095*           (% any one or more)         80.2 (5.0)         -0.018**         -0.095*           Ob you look after someone when he/she is sick for a few days?         85.3 (3.7)         -0.002         -0.081*           (% any one or more)         80.2 (5.0)         -0.033*         -0.081*           (% any one or more)         80.2 (5.0)         -0.002*         -0.027*           What kind of close partnerships in daily life do you have with people in your neighborhood?         15.4 (9.4)         0.066*         0.019*           (% mutual consultation & standing and chatting frequently         70.5		34.3 (5.7)	-0.140***	-0.255***
We neighbor or friend)   Po.008**   Po.008**   Po.008**   Po.009**   Po.009**   Po.009**   Po.009**   Po.008**   Po.009**   Po.008**   Po.008	· · · · · · · · · · · · · · · · · · ·			
Do you listen to someone's concerns and complaints?         − 0.265***           (% any one or more) <sup>b</sup> 92.5 (2.9)         −0.154***         −0.265***           (% neighbor or friend)         49.8 (5.5)         −0.093*         −0.143***           Do you have someone who looks after you when you are sick for a few days?         94.7 (3.1)         −0.186***         −0.292***           (% neighbor or friend)         7.4 (3.1)         −0.028         0.005           Do you look after someone when he/she is sick for a few days?         80.2 (5.0)         −0.053         −0.081*           (% any one or more)         80.2 (5.0)         −0.053         −0.081*           (% any one or friend)         80.2 (5.0)         −0.053         −0.081*           (% any one or more)         80.2 (5.0)         −0.053         −0.081*           (% any one or friend)         80.2 (5.0)         −0.053         −0.081*           (% any one or more)         80.2 (5.0)         −0.002         −0.027           What kind of close partnerships in daily life do you have with people in your eneighborhood?         15.4 (9.4)         0.066         0.019           (% mutual consultation & standing and chatting frequently         70.5 (10.2)         −0.045         −0.108**           (% more, not even greetings)         5.9 (3.3)         0.006 <td></td> <td>` '</td> <td></td> <td></td>		` '		
(% any one or more) <sup>b</sup> 92.5 (2.9)       -0.154***       -0.265***         (% neighbor or friend)       49.8 (5.5)       -0.093*       -0.143***         Do you have someone who looks after you when you are sick for a few days?       94.7 (3.1)       -0.186***       -0.292***         (% neighbor or friend)       7.4 (3.1)       -0.028       0.005         Do you look after someone when he/she is sick for a few days?       80.2 (5.0)       -0.053       -0.081*         (% any one or more)       80.2 (5.0)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       85 (3.7)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       15.4 (9.4)       0.066       0.019         (% mutual consultation & standing and chatting frequently)       70.5 (10.2)       -0.045       -0.108**         (% more, not even greetings)       23 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly & agree) <sup>b</sup> 52.1 (8.5)       -0.144***       -0.331***         Houses or facilities you feel free to drop in within walking distance of your home (% many & some)       35.7 (9.1)       -0.102**<	(% neighbor or friend)	49.5 (5.8)	-0.089*	-0.098**
(% neighbor or friend)         49.8 (5.5)         -0.093*         -0.143***           Do you have someone who looks after you when you are sick for a few days?         94.7 (3.1)         -0.186***         -0.292****           (% any one or more) <sup>b</sup> 94.7 (3.1)         -0.186***         -0.292***           (% neighbor or friend)         80.2 (5.0)         -0.081*         -0.081*           (% any one or more)         80.2 (5.0)         -0.002         -0.027           (% neighbor or friend)         85.3.7)         -0.002         -0.027           What kind of close partnerships in daily life do you have with people in your neighborhood?         15.4 (9.4)         0.066         0.019           (% mutual consultation)         70.5 (10.2)         -0.045*         -0.108**           (% more, not even greetings)         23 (20)         0.097*         0.148***           Do you think most people in your community offer assistance to others?         5.9 (3.3)         0.006         -0.130***           (% agree strongly)         5.9 (3.3)         0.006         -0.130***           Generally speaking, would you say that most people can be trusted? (% yes)         29.4 (11.6)         -0.132***         -0.108***           1 can trust people I meet for the first time. (% very & moderately trust)         11.6 (4.4)         -0.029         -0.189***	· ·			
Do you have someone who looks after you when you are sick for a few days?         94.7 (3.1)         -0.186***         -0.292***           (% any one or more) <sup>b</sup> 7.4 (3.1)         -0.028         0.005           Do you look after someone when he/she is sick for a few days?         80.2 (5.0)         -0.053         -0.081*           (% any one or more)         80.2 (5.0)         -0.002         -0.081*           (% neighbor or friend)         8.5 (3.7)         -0.002         -0.027           What kind of close partnerships in daily life do you have with people in your neighborhood?         15.4 (9.4)         0.066         0.019           (% mutual consultation)         15.4 (9.4)         0.066         0.019           (% mutual consultation & standing and chatting frequently)         70.5 (10.2)         -0.045         -0.108**           (% none, not even greetings)         2.3 (2.0)         0.097*         0.148***           Do you think most people in your community offer assistance to others?         5.9 (3.3)         0.006         -0.130**           (% agree strongly)         5.9 (3.3)         0.006         -0.331***           (% agree strongly & agree) <sup>b</sup> 5.1 (8.5)         -0.144**         -0.206***           Houses or facilities you feel free to drop in within walking distance of your home (% many & some)         35.7 (9.1) <td< td=""><td>(% any one or more)<sup>b</sup></td><td>92.5 (2.9)</td><td>-0.154***</td><td>-0.265***</td></td<>	(% any one or more) <sup>b</sup>	92.5 (2.9)	-0.154***	-0.265***
(% any one or more) <sup>b</sup> 94.7 (3.1)       -0.186***       -0.292***         (% neighbor or friend)       7.4 (3.1)       -0.028       0.005         Do you look after someone when he/she is sick for a few days?       80.2 (5.0)       -0.053       -0.081*         (% any one or more)       80.2 (5.0)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       15.4 (9.4)       0.066       0.019         (% mutual consultation)       70.5 (10.2)       -0.045       -0.108**         (% mutual consultation & standing and chatting frequently)       70.5 (10.2)       -0.045       -0.108**         (% mutual consultation & standing and chatting frequently)       70.5 (10.2)       -0.045       -0.108**         (% mutual consultation & standing and chatting frequently       70.5 (10.2)       -0.045       -0.108**         (% mutual consultation & standing and chatting frequently       70.5 (10.2)       -0.045       -0.108**         (% mutual consultation & standing and chatting frequently       70.5 (10.2)       -0.045       -0.108**         (% mutual consultation & standing and chatting frequently       70.5 (10.2)       -0.045       -0.108**         (% agree strongly & agree)       5.9 (3.3)       0.006       -0.130**         (% agree strongly	(% neighbor or friend)	49.8 (5.5)	-0.093*	-0.143***
(% neighbor or friend)       7.4 (3.1)       -0.028       0.005         Do you look after someone when he/she is sick for a few days?       80.2 (5.0)       -0.053       -0.081*         (% any one or more)       8.5 (3.7)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       15.4 (9.4)       0.066       0.019         (% mutual consultation)       70.5 (10.2)       -0.045       -0.108**         (% none, not even greetings)       2.3 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly)       5.9 (3.3)       0.006       -0.130**         Houses or facilities you feel free to drop in within walking distance of your home (% many & some)       35.7 (9.1)       -0.102**       -0.206***         Generally speaking, would you say that most people can be trusted? (% yes)       29.4 (11.6)       -0.133***       -0.189***         I can trust people I meet for the first time. (% very & moderately trust)       12.4 (7.8)       -0.082*       -0.104**         Do you think people living in your area can be trusted in general?       (% strongly trusted)       68.6 (7.6)       -0.204***       -0.337***				
Do you look after someone when he/she is sick for a few days?       80.2 (5.0)       -0.053       -0.081*         (% any one or more)       80.2 (5.0)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       5.4 (9.4)       0.066       0.019         (% mutual consultation)       70.5 (10.2)       -0.045       -0.108**         (% none, not even greetings)       2.3 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly)       5.9 (3.3)       0.006       -0.130**         (% agree strongly & agree) <sup>b</sup> 52.1 (8.5)       -0.144***       -0.331***         Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> 35.7 (9.1)       -0.102**       -0.206***         Generally speaking, would you say that most people can be trusted? (% yes)       29.4 (11.6)       -0.133***       -0.189***         I can trust people I meet for the first time. (% very & moderately trust)       12.4 (7.8)       -0.082*       -0.104***         Do you think people living in your area can be trusted in general?       (% strongly trusted)       11.6 (4.4)       -0.029       -0.189***         (% strongly & moderately trusted) <sup>b</sup> <td>(% any one or more)<sup>b</sup></td> <td>94.7 (3.1)</td> <td>-0.186***</td> <td>-0.292***</td>	(% any one or more) <sup>b</sup>	94.7 (3.1)	-0.186***	-0.292***
(% any one or more)       80.2 (5.0)       -0.053       -0.081*         (% neighbor or friend)       8.5 (3.7)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       15.4 (9.4)       0.066       0.019         (% mutual consultation)       70.5 (10.2)       -0.045       -0.108**         (% none, not even greetings)       2.3 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly)       5.9 (3.3)       0.006       -0.130**         (% agree strongly & agree) <sup>b</sup> 52.1 (8.5)       -0.144***       -0.331***         Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> 35.7 (9.1)       -0.102**       -0.206***         Generally speaking, would you say that most people can be trusted? (% yes)       29.4 (11.6)       -0.133***       -0.189***         I can trust people I meet for the first time. (% very & moderately trust)       12.4 (7.8)       -0.082*       -0.104***         Do you think people living in your area can be trusted in general?       (% strongly trusted)       68.6 (7.6)       -0.204***       -0.337***	(% neighbor or friend)	7.4 (3.1)	-0.028	0.005
(% neighbor or friend)       8.5 (3.7)       -0.002       -0.027         What kind of close partnerships in daily life do you have with people in your neighborhood?       15.4 (9.4)       0.066       0.019         (% mutual consultation)       70.5 (10.2)       -0.045       -0.108**         (% none, not even greetings)       2.3 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly)       5.9 (3.3)       0.006       -0.130**         (% agree strongly & agree) <sup>b</sup> 52.1 (8.5)       -0.144***       -0.331***         Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> 35.7 (9.1)       -0.102**       -0.206***         Generally speaking, would you say that most people can be trusted? (% yes)       29.4 (11.6)       -0.133***       -0.189***         I can trust people I meet for the first time. (% very & moderately trust)       12.4 (7.8)       -0.082*       -0.104**         Do you think people living in your area can be trusted in general?       (% strongly trusted)       11.6 (4.4)       -0.029       -0.189***         (% strongly & moderately trusted) <sup>b</sup> 68.6 (7.6)       -0.204***       -0.373***	Do you look after someone when he/she is sick for a few days?			
What kind of close partnerships in daily life do you have with people in your neighborhood?  (% mutual consultation)  (% mutual consultation & standing and chatting frequently)  (% none, not even greetings)  Do you think most people in your community offer assistance to others?  (% agree strongly)  (% agree strongly & agree) <sup>b</sup> Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) <sup>b</sup> 15.4 (9.4)  70.5 (10.2)  70.6 (10.2)  70.6 (10.2)  70.108**  70.108**  70.104**  70.130**  70.130**  70.102**  70.130**  70.130**  70.130**  70.130**  70.102**  70.189***  70.189***  70.189***  11.6 (4.4)  70.029  70.189***  70.189***  70.189***	(% any one or more)	80.2 (5.0)	-0.053	-0.081*
(% mutual consultation)       15.4 (9.4)       0.066       0.019         (% mutual consultation & standing and chatting frequently)       70.5 (10.2)       -0.045       -0.108**         (% none, not even greetings)       2.3 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly)       5.9 (3.3)       0.006       -0.130**         (% agree strongly & agree) <sup>b</sup> 52.1 (8.5)       -0.144***       -0.331***         Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> 35.7 (9.1)       -0.102**       -0.206***         Generally speaking, would you say that most people can be trusted? (% yes)       29.4 (11.6)       -0.133***       -0.189***         I can trust people I meet for the first time. (% very & moderately trust)       12.4 (7.8)       -0.082*       -0.104**         Do you think people living in your area can be trusted in general?       11.6 (4.4)       -0.029       -0.189***         (% strongly & moderately trusted)       68.6 (7.6)       -0.204***       -0.373***	(% neighbor or friend)	8.5 (3.7)	-0.002	-0.027
(% mutual consultation & standing and chatting frequently)       70.5 (10.2)       -0.045       -0.108**         (% none, not even greetings)       2.3 (2.0)       0.097*       0.148***         Do you think most people in your community offer assistance to others?       5.9 (3.3)       0.006       -0.130**         (% agree strongly & agree) <sup>b</sup> 52.1 (8.5)       -0.144***       -0.331***         Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> 35.7 (9.1)       -0.102**       -0.206***         Generally speaking, would you say that most people can be trusted? (% yes)       29.4 (11.6)       -0.133***       -0.189***         I can trust people I meet for the first time. (% very & moderately trust)       12.4 (7.8)       -0.082*       -0.104**         Do you think people living in your area can be trusted in general?       11.6 (4.4)       -0.029       -0.189***         (% strongly k moderately trusted) <sup>b</sup> 68.6 (7.6)       -0.204***       -0.373***				
(% none, not even greetings) $2.3 (2.0)$ $0.097*$ $0.148***$ Do you think most people in your community offer assistance to others? $5.9 (3.3)$ $0.006$ $-0.130**$ (% agree strongly) $5.9 (3.3)$ $0.006$ $-0.130**$ (% agree strongly & agree) <sup>b</sup> $52.1 (8.5)$ $-0.144***$ $-0.331***$ Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> $35.7 (9.1)$ $-0.102**$ $-0.206***$ Generally speaking, would you say that most people can be trusted? (% yes) $29.4 (11.6)$ $-0.133***$ $-0.189***$ I can trust people I meet for the first time. (% very & moderately trust) $12.4 (7.8)$ $-0.082*$ $-0.104**$ Do you think people living in your area can be trusted in general? $11.6 (4.4)$ $-0.029$ $-0.189***$ (% strongly & moderately trusted) <sup>b</sup> $68.6 (7.6)$ $-0.204***$ $-0.373****$	·	` ′		
Do you think most people in your community offer assistance to others?  (% agree strongly)  (% agree strongly & agree) <sup>b</sup> Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> Generally speaking, would you say that most people can be trusted? (% yes)  I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) <sup>b</sup> $5.9 (3.3)$ $5.9 (3.3)$ $0.006$ $-0.130**$ $-0.31***$ $-0.206***$ $-0.189***$ $-0.104**$ $-0.102**$ $-0.104**$ $-0$		` ′		
(% agree strongly) (% agree strongly & agree) <sup>b</sup> Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> Generally speaking, would you say that most people can be trusted? (% yes)  I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) <sup>b</sup> $5.9 (3.3)$ $0.006$ $-0.130**$ $-0.331***$ $-0.206***$ $-0.206***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$		2.3 (2.0)	0.097*	0.148***
(% agree strongly & agree) <sup>b</sup> Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> Generally speaking, would you say that most people can be trusted? (% yes)  I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) <sup>b</sup> $52.1 (8.5) -0.144*** -0.206***$ $-0.102** -0.189***$ $-0.189***$ $-0.104**$ $-0.102** -0.104**$ $-0.104**$ $-0.102** -0.104**$ $-0.104**$ $-0.104**$ $-0.104**$ $-0.104**$	•			
Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup> Generally speaking, would you say that most people can be trusted? (% yes)  I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) <sup>b</sup> $35.7 (9.1) -0.102** -0.133*** -0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$ $-0.189***$		` ′		
Generally speaking, would you say that most people can be trusted? (% yes)  I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) $12.4 (7.8) -0.082* -0.104**$ $11.6 (4.4) -0.029 -0.189***$ $11.6 (4.4) -0.029 -0.373***$		` '		
I can trust people I meet for the first time. (% very & moderately trust)  Do you think people living in your area can be trusted in general?  (% strongly trusted)  (% strongly & moderately trusted) $68.6 (7.6)$ $12.4 (7.8)$ $-0.082*$ $-0.104**$ $-0.104**$ $-0.104**$	Houses or facilities you feel free to drop in within walking distance of your home (% many & some) <sup>b</sup>	35.7 (9.1)	-0.102**	-0.206***
Do you think people living in your area can be trusted in general? (% strongly trusted) $11.6 (4.4) -0.029 -0.189***$ (% strongly & moderately trusted) $68.6 (7.6) -0.204*** -0.373***$	Generally speaking, would you say that most people can be trusted? (% yes)	29.4 (11.6)	-0.133***	-0.189***
(% strongly trusted) $11.6 (4.4) -0.029 -0.189***$ (% strongly & moderately trusted) <sup>b</sup> $68.6 (7.6) -0.204*** -0.373***$	I can trust people I meet for the first time. (% very & moderately trust)	12.4 (7.8)	-0.082*	-0.104**
$(\% \text{ strongly \& moderately trusted})^{b}$ $68.6 (7.6) -0.204*** -0.373***$	Do you think people living in your area can be trusted in general?			
	(% strongly trusted)	11.6 (4.4)	-0.029	-0.189***
	(% strongly & moderately trusted) <sup>b</sup>	68.6 (7.6)	-0.204***	-0.373***
How degree is your residential place attachment?	How degree is your residential place attachment?			
(% strongly attached) 25 (7.5) -0.004 -0.177***	(% strongly attached)	25 (7.5)	-0.004	-0.177***

(% strongly & moderately attached)<sup>b</sup>

79.1 (6.0) -0.136\*\*\* -0.315\*\*\*

GDS, geriatric depression scale; SD, standard deviation; SRH, self-rated health.

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

a Population density and elderly proportion at municipality level were controlled.
b Indicators adopted in first model (14 indicators)

eTable 2. Estimated prevalence ratios from multilevel Poisson regression analysis (indicator method using dummy variables)

	Self-ra	Self-rated health (fair/poor)			Depressive symptoms (GDS ≥5)			
	model 1 PR	model 2 PR	model 3 PR	model 1 PR	model 2 PR	model 3 PR		
	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)	(95% CI)		
Fixed parameters								
Community level variables								
Civic participation (factor score)	0.94***	0.96***	0.97*	<u>0.94</u> ***	0.95***	0.95***		
	$(0.92 - \underline{0.96})$	(0.94 - 0.98)	(0.95-1.00)	(0.92 - 0.95)	(0.93-0.96)	(0.93-0.97)		
Social cohesion (factor score)	0.99	1.03*	1.03	0.97***	1.02*	1.02		
	(0.97-1.01)	(1.01-1.05)	(0.99 - 1.06)	(0.95-0.98)	(1.00 - 1.04)	(0.98-1.05)		
Reciprocity (factor score)	<u>0.99</u>	1.00	0.98	0.96***	0.98*	0.97		
	( <u>0.97</u> -1.01)	(0.97-1.02)	( <u>0.91</u> -1.07)	(0.95-0.98)	(0.96-1.00)	( <u>0.91</u> -1.04)		
Individual-level variables								
Civic participation (ref.=None)								
One		0.69***	0.68***		0.73***	0.73***		
		(0.66-0.72)	(0.65-0.71)		(0.70 - 0.75)	(0.70 - 0.75)		
Two		0.54***	0.54***		0.60***	0.60***		
		(0.51-0.58)	(0.51-0.57)		(0.57 - 0.63)	(0.57-0.63)		
≥ Three		0.44***	0.44***		0.46***	0.46***		
_ 100		(0.41-0.48)	(0.41-0.48)		(0.43-0.49)	(0.43-0.49)		
Social cohesion (ref.=None)		,	,		,	,		
One		0.82***	0.82***		0.78***	0.78***		
		(0.79 - 0.86)	(0.79 - 0.86)		(0.75 - 0.81)	(0.76 - 0.81)		
Two		0.72***	0.72***		0.64***	0.64***		
		(0.69-0.76)	(0.69-0.75)		(0.62-0.67)	(0.62-0.67)		
Three		0.57***	0.57***		0.44***	0.44***		
		(0.55-0.59)	(0.55-0.60)		(0.42-0.46)	(0.43-0.46)		
Reciprocity (ref.=None)		(0.00	(0.00		(0112 0110)	(0110 0110)		
One One		0.82***	0.83**		0.91*	0.92		
		(0.74-0.91)	(0.75-0.93)		(0.84-0.99)	(0.84-1.00)		
Two		0.84***	0.85**		0.93*	0.93		
		(0.77-0.93)	(0.77-0.94)		(0.86-1.00)	(0.86-1.01)		
Three		0.65***	0.65***		0.61***	0.62***		
		(0.59-0.71)	(0.59-0.71)		(0.57-0.66)	(0.57-0.66)		
Cross-level interactions		(0.37-0.71)	(0.37 - 0.71)		(0.57-0.00)	(0.57-0.00)		
Community level civic participation			0.98			1.01		
× Individual level civic participation (one)			(0.92-1.03)			(0.96-1.05)		
^ murridual level civic participation (one)			(0.52 - 1.03)			(0.30-1.03)		

Community level civic participation			0.93			1.03	
× Individual level civic participation (two)	(0.87-1.01)					(0.96-1.09)	
Community level civic participation			0.92			0.98	
× Individual level civic participation (≥ three)			(0.83-1.01)			(0.90-1.07)	
Community level social cohesion			1.00			1.02	
× Individual level social cohesion (one)	(0.95-1.04)					(0.98-1.06)	
Community level social cohesion			1.04			1.01	
× Individual level social cohesion (two)	(0.99-1.09)					(0.97-1.06)	
Community level social cohesion	1.00					1.00	
× Individual level social cohesion (three)	(0.95-1.04)					(0.96-1.04)	
Community level reciprocity	1.03					1.06	
× Individual level reciprocity (one)			(0.92-1.17)			(0.95-1.16)	
Community level reciprocity			1.02			1.03	
× Individual level reciprocity (two)	(0.92-1.15)					(0.95-1.11)	
Community level reciprocity	1.01					1.00	
× Individual level reciprocity (three)	(0.93-1.10)					(0.93-1.07)	
Random parameters							
Community level intercept variance	0.004	0.005	0.005	0.001	0.001	0.001	
(standard error)	(0.002)	(0.002)	(0.002)	(0.001)	(0.001)	(0.001)	
Community level civic participation slope variance	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
(standard error)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Community level social cohesion slope variance	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
(standard error)	10.001	(0.001	10.001	(0.001	10.001	(0.001	
Community level reciprocity slope variance	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
(standard error)	10.001	<b>\0.001</b>	<b>10.001</b>	<b>\0.001</b>	<b>10.001</b>	<b>\0.001</b>	

CI, confidence interval; GDS, geriatric depression scale; PR, prevalence ratio. \*\*\* p < 0.001 \*\* p < 0.01 \* p < 0.05 All models are also adjusted for individual-level age, gender, marital status, education, and annual house income. Coefficients of unknown category in social capital variables were omitted in this table. Sample sizes of each model were as follows: SRH; individual=119,458, community=702, GDS; individual=101,348, community=702.