Real-time population data on depression and suicidal ideation







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Original Contribution

Direct Participation in and Indirect Exposure to the Occupy Central Movement and Depressive Symptoms: A Longitudinal Study of Hong Kong Adults

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AJPH

AJPH RESEARCH

Longitudinal Patterns and Predictors of Depression Trajectories Related to the 2014 Occupy Central/Umbrella Movement in Hong Kong

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International Journal of Epidemiology, 2017, e1(1–13) doi: 10.1093/ije/dyu257 Advance Access Publication Date: 23 January 2015 Cohort Profile

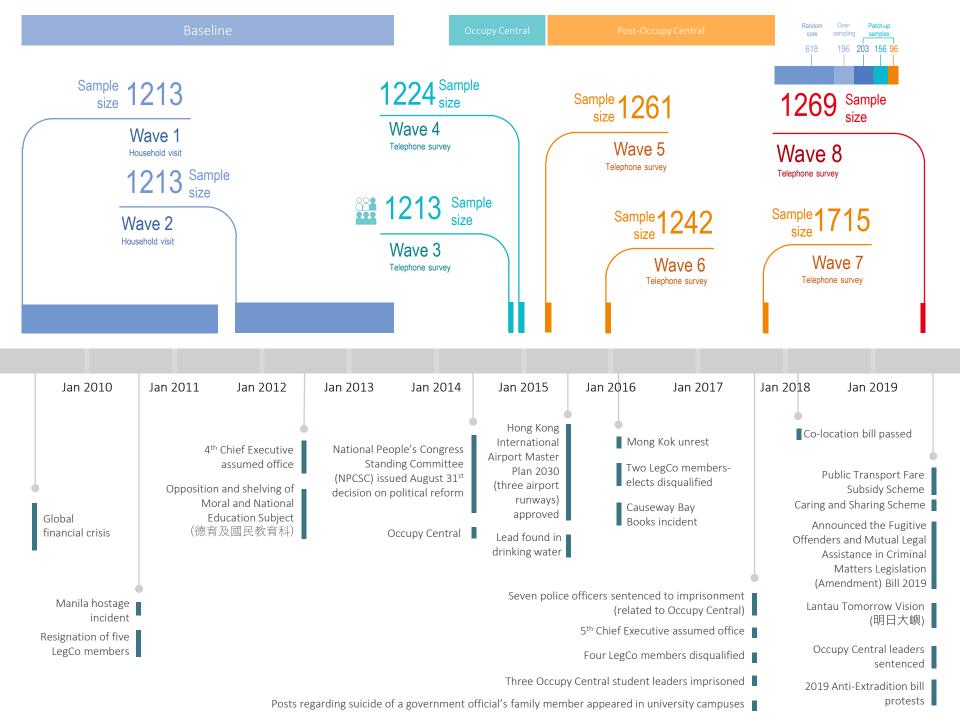


Cohort Profile

Cohort Profile: FAMILY Cohort

Gabriel M Leung,¹ Michael Y Ni^{1,*} Paul TK Wong,^{1,2} Paul H Lee,^{1,3} Brandford HY Chan,¹ Sunita M Stewart,⁴ C Mary Schooling,^{1,5} Janice M Johnston,¹ Wendy WT Lam,¹ Sophia SC Chan,⁶ Ian McDowell,⁷ and Tai Hing Lam¹

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How did we assess mental health?

Patient Health Questionnaire (PHQ-9): Depressive symptoms

Validated in FAMILY Cohort (Yu X et al 2012)

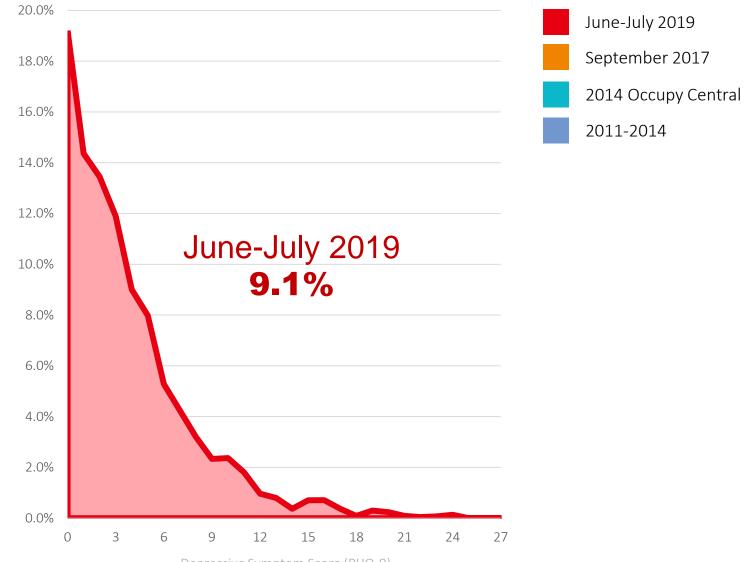
Total score ≥10: **Probable Depression**

85% sensitivity & 80% specificity for diagnosis of major depression (meta-analysis by Manea L et al 2012)

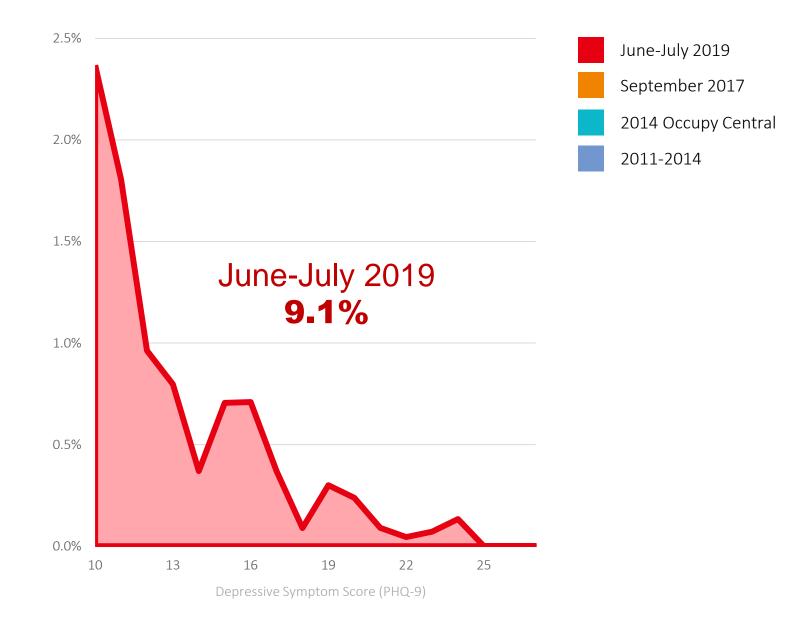
PHQ-9 ninth item score ≥1: **Potential Suicidal Ideation**

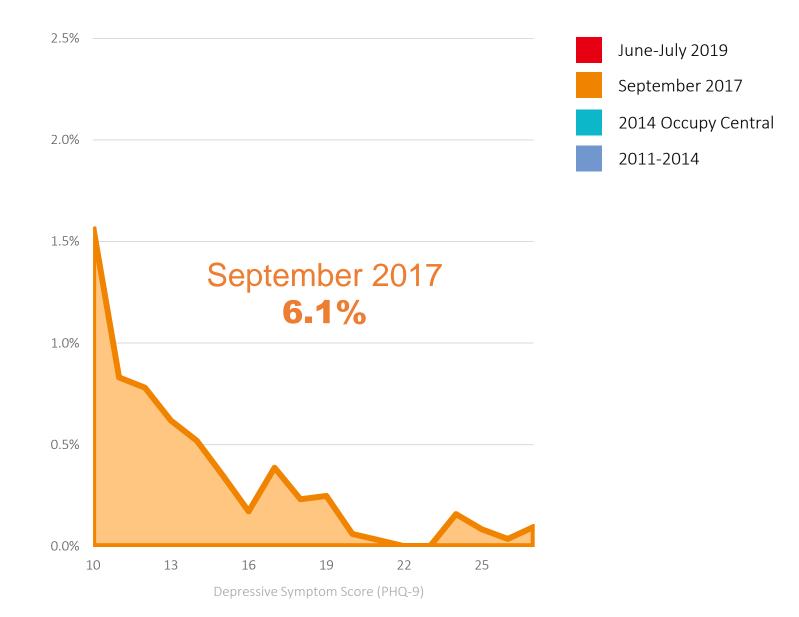
Yu X, Tam W, Wong P, Lam T, Stewart S. The Patient Health Questionnaire-9 for measuring depressive symptoms among the general population in Hong Kong. *Comprehensive Psychiatry* 2012

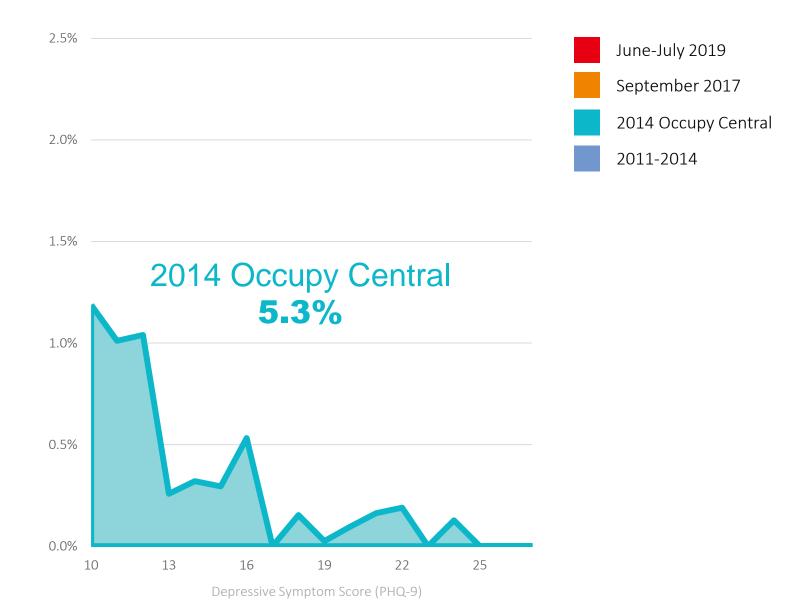
Manea L, Gilbody S, McMillan D. Optimal cut-off score for diagnosing depression with the Patient Health Questionnaire (PHQ-9): a meta-analysis. *Canadian Medical Association Journal* 2012

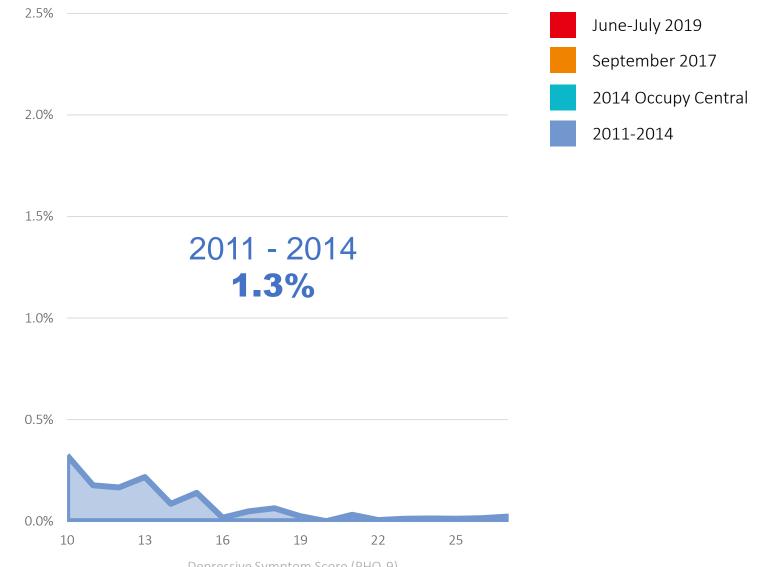


Depressive Symptom Score (PHQ-9)



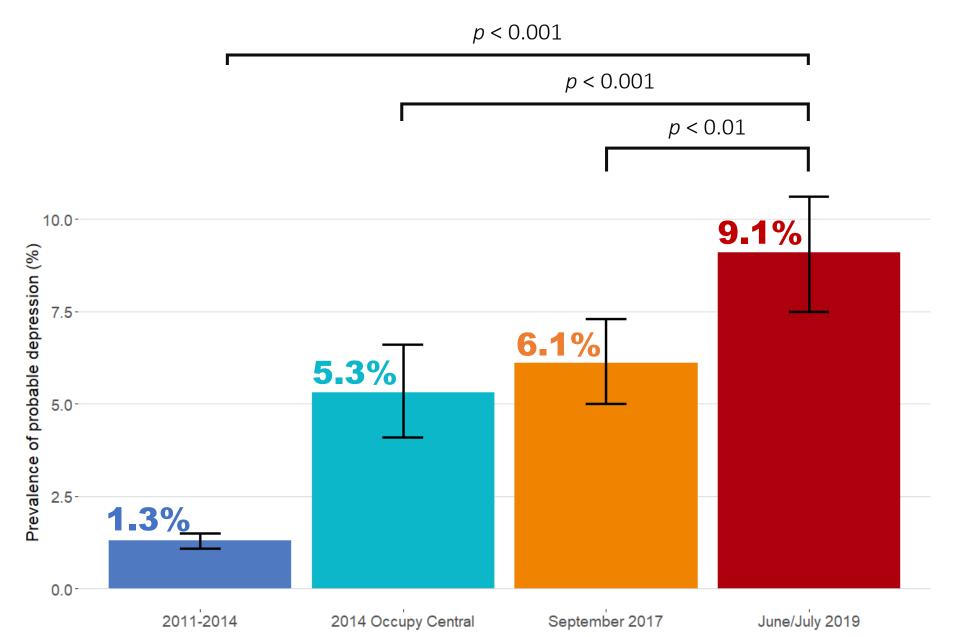






Depressive Symptom Score (PHQ-9)

Probable depression over time



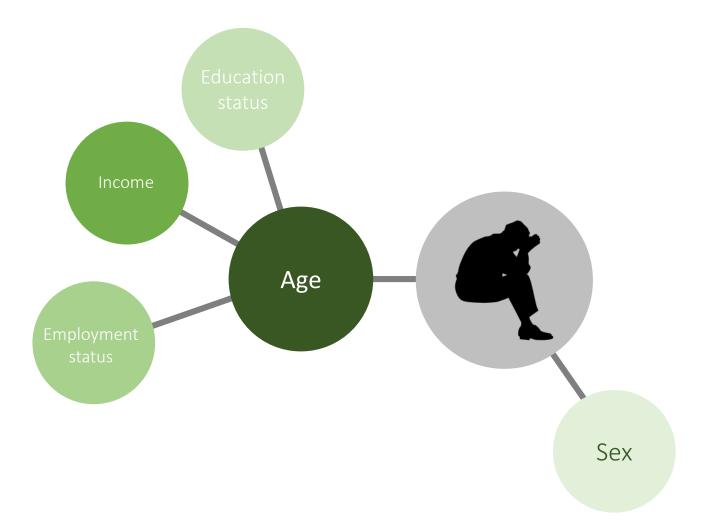
Probable depression by demographics

Demographics	June-July 2019
	% Probable depression (95% CI)
Overall	9.1 (7.5, 10.6)
Age	
20-29	5.7 (2.2 <i>,</i> 9.1)
30-39	7.8 (4.2, 11.4)
40-49	5.5 (2.6, 8.3)
50-59	12.0 (8.2, 15.8)
60 and above	11.5 (8.2, 14.9)
Sex	
Men	10.7 (8.1, 13.2)
Women	7.8 (5.8, 9.8)
Education	
Primary	11.5 (7.6 <i>,</i> 15.5)
Secondary	9.8 (7.4, 12.3)
Tertiary	6.8 (4.5, 9.1)
Household income	
Under 10,000	12.9 (8.5 <i>,</i> 17.3)
10,000-19,999	6.5 (3.5 <i>,</i> 9.6)
20,000-39,999	8.9 (5.7, 12.0)
40,000 and above	4.6 (2.1, 7.2)
Unknown	13.6 (9.1, 18.2)
Employment status	
Employed	6.4 (4.7, 8.1)
Economically Inactive	14.2 (10.9, 17.6)
Unemployed	7.4 (-1.0, 15.8)

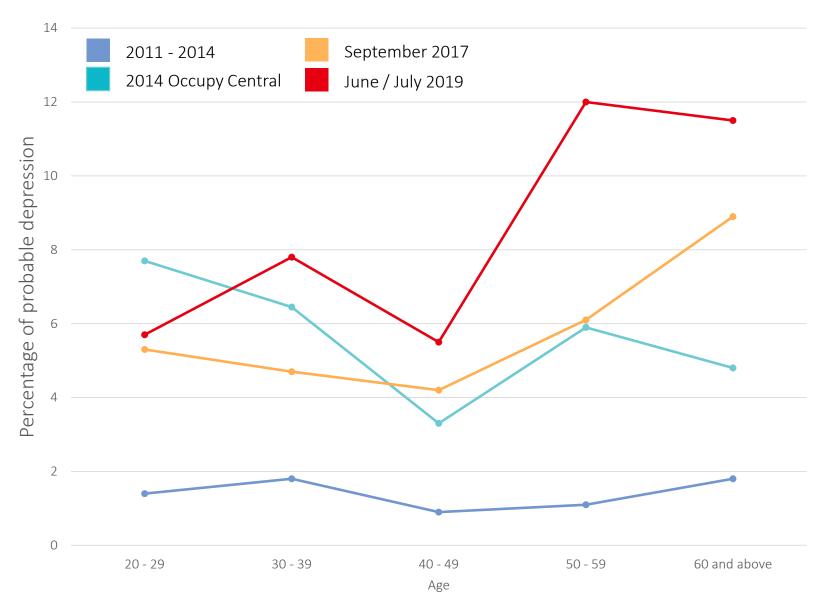
Factors associated with probable depression

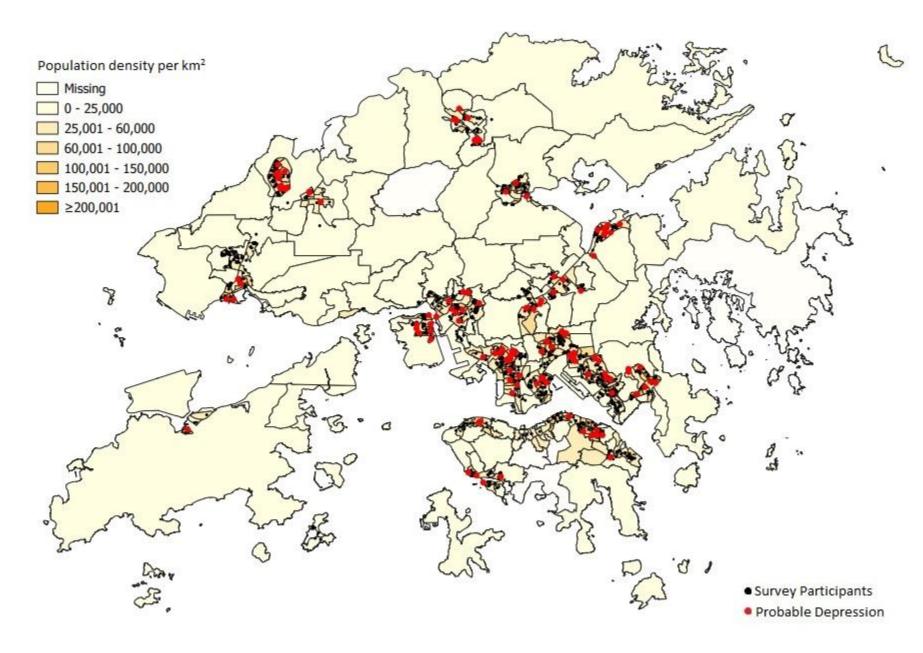


Factors associated with probable depression



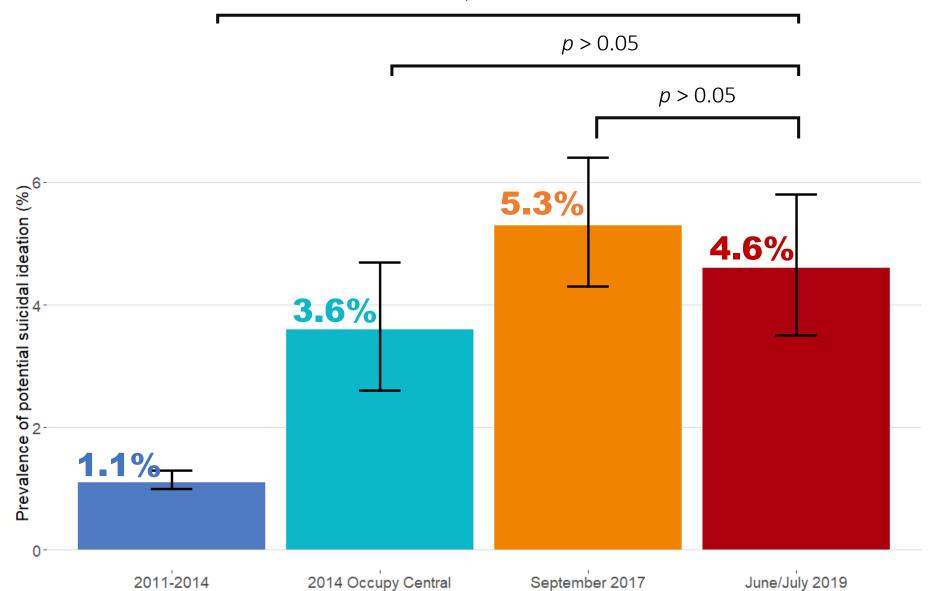
Probable depression by age groups

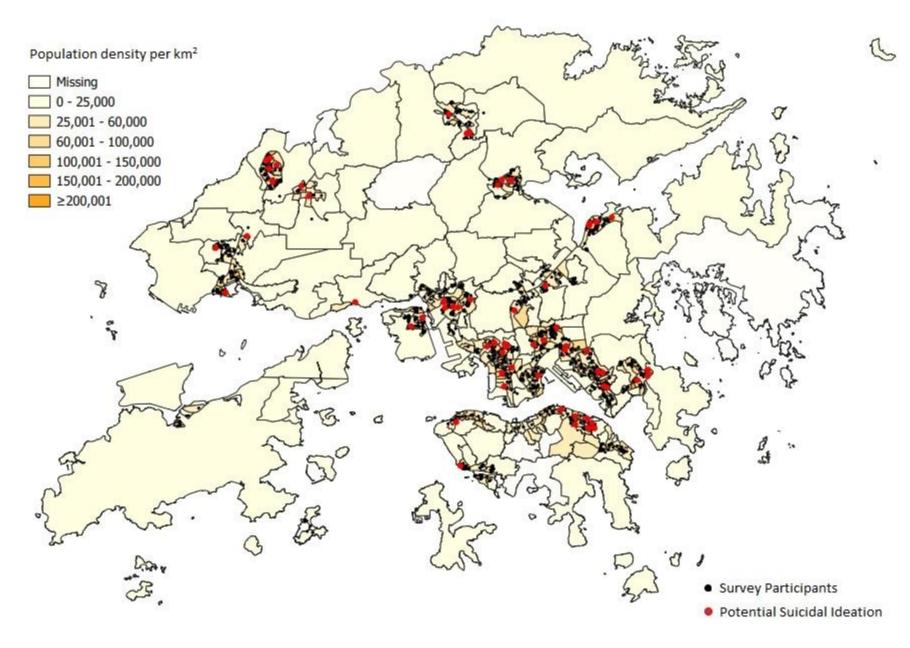




Potential suicidal ideation over time

p < 0.001





Management of suicidal cases

Clinical psychologist contacted at-risk participants

Provided information on Integrated Community Centres for Mental Wellness and mental health hotlines

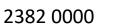
Provided referral letters to health care professionals

Advised participants to attend Accident & Emergency Departments when needed



2466 7350





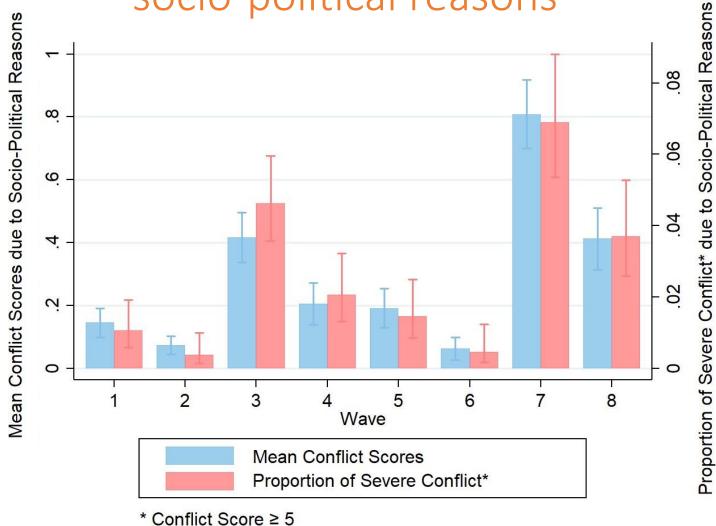


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2389 2222

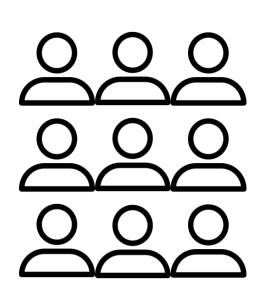
Intra-familial conflicts due to socio-political reasons



Source of conflict scale: Yau & Smetana, 1996; Yau & Smetana, 2003

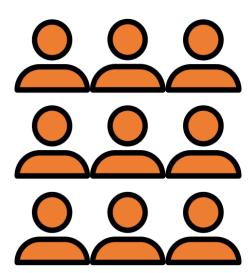
Limitations

Our sample did not include children and youths below the age of 18. This will be addressed in a newly commissioned survey beginning next week, drawing on the FAMILY cohort, Children of 1997 cohort and a de novo sample of randomly chosen youth between 15-25 years old.









Take-home Messages

- Health care professionals need to be vigilant about the mental health impact during and indeed long after significant social events, including potential community spillover effects.
- This should translate into carefully hearing out, listening to and heeding the voices of young people as appropriate; while at the same time be on the alert for mental distress in older adults.
- Prior evidence from Occupy Central also cautions against rumination on the news and social media during and after major social upheavals.
- Proper and adequate social support and reducing intra-familial and societywide socio-political conflicts may mitigate these adverse mental health effects.

Take-home Messages

- Individuals should raise self-awareness of their own and their family's mental state.
- Specifically, people should be vigilant of the emergence of depressive symptoms which include pervasive low mood, diminished motivation, loss of interest, sleeplessness, reduced appetite, negative rumination (e.g. sense of guilt, helplessness, worthlessness and hopelessness), and thoughts or even plans of selfharm.
- Progression or persistence of these symptoms, or impairment in daily, social and/or role functioning may already indicate the presence of a depressive disorder.
- Those who recognize these symptoms should seek help from mental health professionals promptly, and proper treatment is key to preventing undesirable outcomes and to achieving a quick recovery.