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Precarious employment and the risk of suicidal ideation and 1

suicide attempts 2

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ABSTRACT

Objective. Although the effect of occupation or employment status on suicide risk is notable, there are few 17 studies on the effect of precarious employment on suicide. We compared suicidal ideation and suicide attempts 18 in precarious workers and their non-precarious counterparts using a representative sample from South Korea. 19

Method, The 2008 Korean Community Health Survey data were used for this study. Information was obtained 20 on 52,161 participants (41,063 employees with non-precarious work and 11,098 employees with precarious 21 work). The outcome of the logistic regression model was the presence of suicidal thoughts and attempts, and 22 the independent variables were the demographics, socioeconomic status, and health status. 23

Results. Employees with precarious work were more likely to exhibit suicidal ideation (OR = 1.41; 95% CI, 24 1.28-1.55) and suicide attempts (OR = 1.52; 95% CI, 1.02-2.27) than employees with non-precarious work. 25 After controlling for income and education (Model 2) depressive feelings (Model 6), compared with unadjusted Q3 model, remained significant but the odds ratio was largely attenuated, indicating a strong association between 27 suicidal risk and socioeconomic and feelings of depression. 28

Conclusion. Precarious workers had a higher risk of suicidal ideation and suicide attempts than 29 non-precarious workers. Our study suggests that precarious employment is an important risk for suicide. 30 © 2014 Published by Elsevier Inc. 31

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Introduction 36

Suicide is a significant public health issue because of associated 37 human, social, and economic losses. The World Health Organization 38 (WHO) has estimated that almost one million people commit suicide an-39 40 nually, which is an average of one suicide death every 40 s (World Health Organization, 2007). Although suicidal thoughts and attempts are 41 frequently influenced by personality characteristics (e.g., impulsivity 42and aggression), a family history of suicide, social deprivation, alcohol or 43 44 drug abuse, and psychiatric disorders (Hawton and van Heeringen, 2009; Nock et al., 2008), the impact of occupation or employment status 45 on the risk of suicide is notable (Stack, 2001; Voss et al., 2004). 46

47 Suicide rates vary across occupational groups. Suicide is more frequent among physicians, nurses, pharmacists, veterinarians, police 48 officers, farmers, and military personnel (Mahon et al., 2005; Meltzer 4950et al., 2008; Roberts et al., 2013). Suicide risk is also elevated among in-51dividuals who are unemployed or have a lack of full-time employment 52(Blakely et al., 2003; Kraut and Walld, 2003; Maki and Martikainen,

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2012). Easy access to lethal measures (e.g., toxic substances and fire- 53 arms) and work-related difficulties (e.g., social isolation, psychiatric 54 problems, and financial constraints) have received attention as 55 common factors associated with an increased risk of self-destructive 56 behavior (Agerbo et al., 2007; Schneider et al., 2011; Skegg et al., 2010). 57

Addressing such work-related difficulties appears to be relevant to 58 labor market changes. Recent decades have seen less uniform and 59 more flexible and complex work arrangements, resulting in the growth 60 of precarious employment situations (Benach et al., 2000; Rodgers, 61 1989). Precarious employment, namely non-standard, part-time, or con- 62 tingency work, is characterized by a temporary nature, powerlessness, 63 limited benefits, and low earnings (Benavides et al., 2006). Such difficul- 64 ties impose serious vulnerabilities to emotional distress, mental and 65 physical illness, and stressful working conditions, which are known risk 66 factors for self-destructive behaviors (Agerbo et al., 2007; Schneider 67 et al., 2011). Given these vulnerabilities, employees with precarious 68 work might be at a higher risk for suicide; however, relatively few 69 studies have focused on the effect of precarious employment on suicide. 70

In this study, we hypothesized that employees with precarious work 71 would be more susceptible to suicidal thoughts and actions. We com-72 pared suicidal ideation and suicide attempts between precarious 73 workers and their non-precarious counterparts using a representative 74 sample from South Korea. 75

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76 Methods

77 Study population

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78 We used data from the Korean Community Health Survey (KCHS), which 79was conducted by the Korea Centers for Disease Control and Prevention. The 80 KCHS is a cross-sectional study that began in 2008 with the goals of gathering 81 reliable health-related data at the community level in different geographical 82 regions and providing evidence-based public health programs and services. 83 The study participants were recruited from public health centers in subcommunities using probability proportional to size systematic sampling and 84 85 root proportional allocation. The survey is conducted from September to 86 November each year and gathers information through face-to-face, paper-87 assisted personal interviews between trained interviewers and respondents. 88 The collected data includes socio-demographic information, health behaviors (e.g., smoking and alcohol consumption), self-reported health status, health 89 90 system utilization, and quality of life. A total of 220,258 participants were 91 included in this study in 2008 (Korea Centers for Disease Control and 92Prevention, 2014).

93 Of the 220,258 participants, we initially sampled the 148,330 participants 94 who were between the ages of 20–59 and were therefore considered working-95 age adults. We excluded 84,774 of these participants because they were not 96 engaged in economic activity or were not waged workers. Additionally, 97 11,395 subjects were excluded because of a lack of information regarding 94 suicide (n = 175) or other variables of interest (n = 11,220). In total, 99 52,161 participants in this study.

100 Employment status: non-precarious and precarious employment

Employment status was assessed by questions regarding (1) job attendance, (2) job title, (3) employment status (e.g., waged worker, selfemployed, or unpaid family employee), and (4) work status (i.e., full-time, part-time, or contingency jobs). Employees with precarious work were defined as participants with part-time or contingency jobs, and full-time workers were regarded as non-precarious workers.

107 Suicidal ideation and suicide attempts

Information regarding the participants' suicidal ideation and suicide attempts was obtained through self-reports. Suicidal ideation was based on a question of whether the respondent had contemplated dying in the past 12 months. Suicide attempts were based on a question regarding whether the respondent had attempted suicide in the past 12 months. The responses were coded as dichotomous variables ("yes" or "no").

114 Variables

115The variables of interest in the association between precarious employment 116 and the risk of suicide were determined based on evidence presented in the previous literature. As part of the KCHS, the respondents provided information 117 regarding their age (20-29, 30-39, 40-49, or 50-59 years), gender, marital sta-118 tus (married, divorced or widowed, or never married), monthly income 119 $(\leq$ \$2000, \$2001-\$3000, or \geq \$3001), and education (less than high school, 120121high school, or college or higher). Working classes included white-collar (managerial, professional, or clerical), pink-collar (services or sales), blue-collar 122123 (manual labor), or the military. Health behaviors included smoking status 124 (current, former, or never) and alcohol consumption (drinker or non-drinker). Feelings of depression were identified by a yes-no question regarding whether 125126the respondent had experienced feelings of depression during the past 12 months. Physical health status was identified based on previous physician-diagnosed 127 128 diseases (e.g., hypertension, diabetes mellitus, dyslipidemia, stroke, myocardial 129infarction, or angina).

130 Statistical analysis

We used Chi-square tests to determine if the differences between the demo-131132graphic, socioeconomic, and health status of the precarious and non-precarious 133workers who did or did not contemplate suicide, were statistically significant. 134We performed logistic regression using a series of ordered logistic regression 135 models and produced crude and adjusted odds ratios (ORs) with 95% confi-136dence intervals (95% CIs). To investigate the effect of the individual employee 137variables on suicide risk, we used estimating models adjusting for covariates: Model I adjusted for demographic characteristics (i.e., age, gender, and marital 05

status); Model II adjusted for Model I + income and education; Model II adjust-139 ed for Model I + job categories (white-collar, pink-collar, blue-collar, and mili-140 tary); Model IV adjusted for Model I + smoking and alcohol consumption; 141 Model V adjusted for Model I + physical health status (based on a history of dis-142 ease, including hypertension, diabetes mellitus, dyslipidemia, stroke, myocardial infarction, or angina); and Model VI adjusted for Model I + depressive feelings (based on the experience of feelings of depression during the past 12 months). 145 The final model was adjusted for all potential variables, including age, gender, 146 marital status, income, education, job classification, smoking and alcohol consumption, physical health status, and depressive feelings. All of the analyses were performed using SAS 9.2 software (SAS Institute, Cary, NC, USA), and the statistical significance level was set at $\alpha = .05$. 150

Results

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Table 1 shows the characteristics of non-precarious and precarious 152 workers according to the presence of suicidal ideation and suicide 153 attempts. Of the 52,161 participants, 41,063 employees were 154 non-precarious, and 11,098 employees were precarious workers. The 155 non-precarious and precarious workers with suicidal ideation/attempts 156 were more likely to be female and divorced/widowed, to have low in- 157 come and less education, to be pink-collar workers, to drink, to have 158 depressive feelings, and to have poor self-estimates of health status. 159 The patterns of the ages, smoking, and history of disease were different 160 between non-precarious and precarious workers. The proportion of sui- 161 cidal ideation/attempts among the non-precarious workers was high in 162 the participants aged 50–59 years, those who never smoked, and those 163 with a history of stroke, whereas the highest proportion of suicidal ide- 164 ation/attempts among precarious workers was found in participants 165 aged 40-49 years, those who were current smokers, and those with a 166 history of angina. 167

Fig. 1 shows the prevalence (%) of suicidal ideation and suicide at- 168 tempt between the non-precarious and precarious workers. The major- 169 ity of employees had contemplated suicide ('suicidal ideation'), 170 whereas a small proportion (4.5%) of the employees actually attempted 171 suicide ('suicide attempts'). Employees with precarious work had rela- 172 tively higher rates of suicidal ideation (4.4% among non-precarious 173 workers vs. 10.0% among precarious workers) and suicide attempts 174 (0.2% among non-precarious workers vs. 0.7% among precarious 175 workers). Table 2 shows the odds ratio (95% CI) of suicidal ideation 176 and suicide attempts in employees with precarious work. To show the 177 effects of precarious employment on suicide, we conducted a series of 178 ordered logistic regression analyses, and the odds ratios indicated that 179 the risk increases among precarious workers compared with non- 180 precarious workers. Compared with the unadjusted OR, each adjusted 181 OR for suicidal ideation and suicide attempts decreased but remained 182 significant after controlling for the demographic variables (Model 183 1) and further adjustment for income and education (Model 2), job clas- 184 sification (Model 3), smoking and alcohol consumption (Model 4), 185 physical health status (Model 5), or depressive feelings (Model 6). The 186 effects of income and education (OR = 1.62; 95% CI, 1.48–1.76 for sui- 187 cidal ideation and OR = 1.98; 95% CI, 1.38–2.85 for suicide attempt), 188 and depressive feelings (OR = 1.66; 95% CI, 1.52–1.82 for suicidal 189 ideation and OR = 2.16; 95% CI, 1.49–3.13 for suicide attempt) on 190 suicide risk appear to be particularly influential among employees 191 with precarious work. 192

Discussion

This study investigated the association between precarious employ- 194 ment and suicidal ideation and suicide attempts, using a nationally representative sample from South Korea. We found that the employees 196 with precarious work were at an increased risk for suicidal thoughts 197 (OR = 1.41; 95% CI, 1.28–1.55) and actions (OR = 1.52; 95% CI, 1.02– 198 2.27), after adjusting for potential variables. The obvious decrease in the odds ratios in terms of socioeconomic indicators (e.g., income and 200 education) and depressive feelings, compared with the unadjusted 201

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