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Identification with all humanity and willingness to help people in COVID-19 affected countries: Testing a moderated mediation model

Xueli Deng
School of Marxism, Jiangsu University, Zhenjiang, China

ABSTRACT

The conceptualization of Identification with All Humankind (IWAH) suggests that human beings care deeply not only for their own ingroups but for all humanity as a whole. The COVID-19 pandemic has witnessed so much international help across national borders. Inspired by research on IWAH, we examined whether IWAH was associated with adolescents’ sympathy for people in COVID-19 affected countries, which was further related to their willingness to help. The moderating role of conscientiousness on this indirect association was also examined. Eight hundred and fifty four students were recruited as participants. Data were obtained with adolescents reporting on their IWAH, sympathy for and willingness to help people in COVID-19 affected countries. The results indicated that IWAH was both directly and indirectly associated with their willingness to help people in COVID-19 affected countries via sympathy for them. Adolescents’ conscientiousness moderated the indirect relation of adolescents’ IWAH with their willingness to help via sympathy for people in COVID-19 affected countries. Specifically, for adolescents high in conscientiousness, IWAH was more strongly associated with willingness to give help. The main conclusion is that adolescents high in IWAH were more likely to experience sympathy for people in COVID-19 affected countries, thus making them more likely to give help, especially for adolescents high in conscientiousness.

1. Introduction

Researchers have posited the construct of Identification with All Humanity (IWAH) to express the idea that all humanity is our ingroup and all human beings on earth belong to just one global community (McFarland et al., 2012). Given that a common fate may produce a sense of “we-ness” that further promotes intergroup prosocial tendencies (Flippen et al., 1996; Zhang, 2019), IWAH should decrease the impact of transnational differences on mutual prosociality between different countries, especially during such an upheaval as the COVID-19 pandemic.

Since its outbreak, the COVID epidemic has exerted profound influences on people's daily life in every country. Due to its lethal nature, the number of deaths is still increasing every day. It may be the largest disaster since World War II (Gautam, 2020). The entire humankind faces unprecedented challenges in various domains, necessitating international concerted efforts for coping with this global health crisis. Such an unfortunate common fate may highlight the role of IWAH in facilitating transnational prosociality. This study intended to examine how IWAH is associated with adolescents' sympathy for people in other COVID-19 affected countries and their willingness to help them. We also examined whether conscientiousness, one of the Big Five dimensions, moderates the foregoing associations. Although we could not measure adolescents’ actual prosocial behaviors due to the home quarantine practices, we had the alternative to assess how Identification with All Humanity (IWAH) was associated with adolescents’ sympathy for and willingness to help people in other COVID-19 affected countries. We expected our findings to shed more light on the important role of IWAH in promoting international prosociality, especially in the context of the COVID-19 epidemic.

1.1. Identification with all humanity and willingness to help people in COVID-19 affected countries

Identification with all humanity (IWAH) indicates a tendency to identify with all human beings as a whole, not just one's own ingroup (McFarland et al., 2012). IWAH means a deep caring for all human beings, more than the absence of ethnocentrism and the presence of moral reasoning and moral identity. Maslow (1954) had characterized his “self-actualized individuals” as having a deep feeling of identification...
and affection for human beings in general and a genuine desire to help every member of the human species. Research has demonstrated that people high in IWAH display greater concern for human rights and humanitarian needs, value the lives of ingroup and outgroup members equally, and tend to be willing to make a contribution to international humanitarian relief (McFarland et al., 2012). Viewing all humanity as a big family, people high in IWAH harbor a genuine concern for the well-being of others and a responsibility for others, regardless of their race or religion. Higher IWAH has been consistently associated with more concerns over global issues such as humanitarian needs and universal human rights (McFarland et al., 2013). In the context of the COVID-19 pandemic, adolescents high in IWAH may be more likely to help people in COVID-19 affected countries.

Ample evidence indicates that group membership (ingroup versus outgroup) plays an important role in helping (Omotto & Snyder, 2002; Weisel & Bohm, 2015). People are motivated to express more positive attitudes and helping behaviors toward ingroup than outgroup members (Cikara et al., 2011; Hein et al., 2010). When people are highly identified with all human beings, they may tend to regard people from different countries as from the same ingroup, thus enhancing their sympathy and help toward them. Members with a common group identity help each other more frequently than those with different memberships. A social identity approach suggests that strangers may come to identify with each other as from a common group under certain conditions and this even may be the case in some emergency situations involving danger for the helper (Levine & Manning, 2013). Therefore, in the context of the COVID-19 pandemic, adolescents high in IWAH should be more willing to help people in COVID-19 affected countries.

1.2. Identification with all humanity and sympathy for people in COVID-19 affected countries

As an emotional response, sympathy is triggered by another's emotional state, generally involving feelings of sorrow and concern for others' welfare (Eisenberg et al., 2015). Sympathy tends to occur in familiar relations, which has been termed as “proximity effects” by some researchers (Schwalm, 2020). By its conception, individuals high in IWAH perceive all human beings as from one common group, thus perceiving people all over the world as more similar and relevant to them than those low in IWAH (McFarland et al., 2012). This perceived similarity triggers greater sympathy for members of the same group. In fact, sympathy is stronger among people who feel similar (Valdesolo & Desteno, 2011), especially among emotionally close ones (Korchmaros & Kenny, 2001). The perceived self-other similarities tend to make us feel others as the same kind of people as ourselves (Rothbart & Taylor, 1992). The more people perceive others as similar to themselves, the more likely they regard other's welfare as self-relevant and altruistically react to their plight (Park & Schaller, 2005; Rozyczka-Tran, 2017). By contrast, when people feel irrelevant to the sufferers, they are less likely to be moved by their suffering and less likely to concern empathically (Batson et al., 2007). Therefore, adolescents high in IWAH should be more inclined to deem all the human beings as belonging to one integrated group and thus feel more close to people from different countries, consequently more prone to sympathy for people in COVID-19 affected countries.

1.3. Sympathy for people in COVID-19 affected countries and willingness to help

Disasters occur now and then all over the world, with disasters in one country often arousing sympathetic feelings in people from other countries and moving them to provide international aid. As an emotional response, sympathy is demonstrated in one's feelings of sorrow for the misfortunes of the distressed people (Eisenberg, 2010). Sympathetic feelings are consistently related to prosocial behaviors (Carlo et al., 2010; Hoffman, 2000). People in sympathy are more likely to emotionally share others' distresses and thus feel a greater desire to help and a motive to alleviate others' distresses (Carlo et al., 2015). Just like in this global COVID pandemic, we feel sympathetic for the pandemic situations in other countries and provided help toward them. Generally, the greater sympathy people have for the needy people, the stronger their desire is to help them (Chi et al., 2020). Conceivably, people who feel sympathetic for overseas COVID-19 affected people should be more likely to give help. We expected that adolescents high in sympathy with COVID-19 affected people are more willing to help them. Flowing from the above inferences, adolescents high in IWAH are more likely to feel sympathetic for people in COVID-19 affected countries, and thus more willing to help them.

1.4. The moderating role of adolescents' conscientiousness

As one of the Big Five dimensions, conscientiousness circumscribes a human proclivity to be organized and responsible. People high in conscientiousness generally follow socially approved norms and rules (Roberts et al., 2009). Conscientious people are characterized as reliable and consciously complying with moral standards (Egan et al., 2017; McCrae & Costa, 1997). Personality plays an important role in coping with difficult situations. In particular, conscientiousness has been the most effective predictor of problem-solving coping with stressful situations (Barley & Roesch, 2011; Zhou et al., 2017). Moreover, conscientiousness is closely related to people's prosocial responses to others' distress (Courbalay et al., 2015) and positive changes in conscientiousness can longitudinally predict positive changes in prosociality (Kanacri et al., 2014).

Therefore, high conscientiousness may promote people with high IWAH to help the needy people in COVID-19 affected countries. By contrast, in spite of high identification with all humanity, people low in conscientiousness may still lack the responsibility to help people in distress.

1.5. Hypotheses of the current study

To sum up, we aimed to examine the association between adolescents' IWAH and their willingness to help people in COVID-19 affected countries, focusing on the mediating role of sympathy and the moderating role of conscientiousness in this relationship. The following hypotheses were postulated and addressed by testing a moderated mediation model as shown in Fig. 1.

Hypothesis 1. Adolescents high in identification with all humanity would be more willing to help people in COVID-19 affected countries.

Hypothesis 2. Sympathy for people in COVID-19 affected countries might mediate the association between adolescents' IWAH and their willingness to help people in COVID-19 affected countries, in that adolescents who were more identified with all humanity were more likely to feel sympathetic for the sufferings of COVID affected people and thus were more willing to help them.

Hypothesis 3. Adolescents' conscientiousness might moderate the indirect association between adolescents' IWAH and their willingness to help, in that this indirect association would be stronger for adolescents with greater conscientiousness.

2. Method

2.1. Participants

Nearly nine hundred students were recruited as participants from the first and second grades of two middle schools situated in an Eastern coastal city of China. The third graders were not used because of their forthcoming final examination. Although the teachers greatly support our investigation, two or three students in each class choose not to...
participate. Finally, complete data were secured for eight hundred and fifty four students (458 boys and 396 girls, $M_{age} = 13.45, SD = 1.12$). Missing data was handled using full information maximum likelihood estimation (Enders & Bandalos, 2001).

### 2.2. Measures

**Identification with all humanity** was assessed using the 9 items on the Identification with All Humanity Scale (McFarland et al., 2012). Sample items were, “How do you feel to people all over the world?” and “How much would you say you have in common with people all over the world?” Adolescents rated each item on a 5-point Likert scale from 1 (not at all) to 5 (very much). This measure demonstrated satisfactory internal consistency ($\alpha = 0.83$). Confirmatory factor analyses indicated that one-factor model fit the data satisfactorily: $\chi^2/df = 5.11$, comparative fit index (CFI) = 0.96, root mean square error of approximation (RMSEA) = 0.071, with item loading values ranging from 0.59 to 0.77. The average of the values for the 9 items was computed to index adolescents' identification with all humanity.

**Sympathy for people in COVID-19 affected countries** was assessed with 13 items adapted from the Trait Sympathy Scales (TSS; Lee, 2009). Sample items were, “At the thought of sufferings of people in many COVID-19 affected countries, I would probably become teary eyed or close to crying” and “It would really disturb me to see the shortage of medical supplies and daily necessities (e.g., face masks) in some countries due to the COVID-19 pandemic”. This instrument displayed satisfactory internal consistency ($\alpha = 0.89$). Adolescents rated each item on a 5-point Likert scale (1 = disagree strongly, 5 = agree strongly). Confirmatory factor analyses demonstrated that one-factor model fit the data satisfactorily: $\chi^2/df = 6.41$, comparative fit index (CFI) = 0.97, root mean square error of approximation (RMSEA) = 0.043, with item loading values ranging from 0.65 to 0.81. The average of the values for the 13 items was computed to index adolescents' Sympathy for people in COVID-19 affected countries.

**Willingness to help people in COVID-19 affected countries** was assessed with 5 items. Sample items were, “I am willing to provide medical supplies and daily necessities to people in COVID-19 affected countries” and “I willingly volunteer to help people in any COVID-19 affected country.” Adolescents rated each item on a 5-point Likert scale from 1 (almost always untrue of me) to 5 (almost always true of me). Confirmatory factor analyses demonstrated that one-factor model fit the data satisfactorily: $\chi^2/df = 3.96$, comparative fit index (CFI) = 0.98, root mean square error of approximation (RMSEA) = 0.046, with item loading values ranging from 0.63 to 0.76. The average of the 5 items was computed to index the level of adolescents' willingness to help.

Adolescent **conscientiousness** was assessed with the 12-item conscientiousness subscale of the 60-item NEO Five-Factor Inventory (Costa & McCrae, 1992). Sample items were, “I try to perform all the tasks assigned to me conscientiously,” and “I'm pretty good about pacing myself so as to get things done on time.” Each item was rated on a 5-point Likert scale (1 = completely not true, 5 = completely true). This measure displayed satisfactory internal consistency here ($\alpha = 0.89$). Confirmatory factor analyses indicated that one-factor model fit the data satisfactorily: $\chi^2/df = 5.53$, comparative fit index (CFI) = 0.97, root mean square error of approximation (RMSEA) = 0.07, with item loading values ranging from 0.58 to 0.72.

### 3. Results

#### 3.1. Descriptive analyses

As shown in Table 1, adolescents’ identification with all humanity (IWAH) was positively associated with their sympathy for people in COVID-19 affected countries and their willingness to help them ($r = 0.52$ and $0.40$, respectively, $p < 0.001$), indicating that adolescents high in IWAH were more likely to feel sympathy for people in COVID-19 affected countries and more willing to help them. Adolescents’ sympathy for people in COVID-19 affected countries was positively associated with their willingness to help them ($r = 0.51$, $p < 0.001$), indicating that adolescents high in sympathy were more willing to help. Adolescents' conscientiousness was positively associated with adolescents' IWAH ($r = 0.37$, $p < 0.001$), sympathy ($r = 0.40$, $p < 0.001$), and their willingness to help ($r = 0.42$, $p < 0.01$).

#### 3.2. Testing the moderated mediation model

To test the hypothesized model, we took the approach by Muller et al. (2005) to estimate the parameters for three regression models. Model 1 estimated the moderating effect of adolescent conscientiousness on the relationship between adolescents' IWAH and their willingness to help. Model 2 estimated the moderating effect of adolescent conscientiousness on the association between adolescents’ IWAH and their sympathy for people in COVID-19 affected countries. Model 3 estimated the moderating effect of adolescent conscientiousness on both the partial effect of adolescents’ sympathy for people in COVID-19 affected countries on their willingness to help them and the residual effect of adolescents' IWAH on their willingness to help. The details for specifying the above three models have been displayed in Table 2. All predictors were first standardized to improve the ease of interpretation and to minimize potential multicollinearity (Dearing & Hamilton, 2006).

Edwards and Lambert (2007) have suggested that moderated mediation could be judged to exist if either or both of the following two moderating patterns appear: (i) the path from adolescents' IWAH to their sympathy was moderated by adolescent conscientiousness, and/or (ii) the path from adolescents’ sympathy to their willingness to help was moderated by adolescents' conscientiousness.

As shown in Table 2, the first model presented both a significant
above the mean, respectively) (Fig. 2). Simple slope test results revealed a significant IWAH × conscientiousness interaction effect on adolescents’ willingness to help people in COVID-19 affected countries (β = 0.13, p < 0.001). For descriptive convenience, we plotted the predicted adolescents’ willingness to help against their IWAH, separately for low and high levels of conscientiousness (1 standard deviation (SD) below the mean and 1 SD above the mean, respectively) (Fig. 2). Simple slope test results revealed that IWAH was more strongly associated with willingness to help among adolescents with high conscientiousness (b\_simple = 0.44, p < 0.001) in contrast to those with low conscientiousness (b\_simple = 0.17, p < 0.001). In other words, high conscientiousness may strengthen the effect of adolescents’ IWAH on their willingness to help COVID-19 affected people.

The second model provided both a significant main effect of IWAH (β = 0.42, p < 0.001) and a significant IWAH × conscientiousness interaction effect on adolescents’ sympathy for people in COVID-19 affected countries (β = 0.09, p < 0.01). For descriptive convenience, we plotted the predicted adolescents’ sympathy for COVID-19 affected people against their IWAH, separately for low and high levels of conscientiousness (1 standard deviation (SD) below the mean and 1 SD above the mean, respectively) (Fig. 3). Simple slope test results revealed that IWAH was more strongly associated with sympathy for people in COVID-19 affected countries among adolescents with high conscientiousness (b\_simple = 0.51, p < 0.001) in contrast to those with low conscientiousness (b\_simple = 0.33, p < 0.001). In other words, high conscientiousness may strengthen the effect of adolescents’ IWAH on their sympathy for COVID-19 affected people. The third model, there was a positive effect of adolescents’ sympathy on their willingness to help (β = 0.34, p < 0.001) after controlling for adolescents’ IWAH.

4. Discussion

Although research on IWAH has been associated with people’s willingness to contribute to international humanitarian relief (McFarland et al., 2012), the processes underlying this association are still unclear. We conducted this investigation in early May in 2020 in the context of the COVID-19 pandemic. By testing a moderated mediation model, we examined the potential mediating role of sympathy and the moderating
people tend to feel compassion toward the victims and treat them more by adolescents’ conscientiousness. For adolescents high in conscientiousness, sympathy for them and this indirect association was moderated by their awareness of their close connection with the whole humanity. Following disasters such as earthquakes and hurricanes, self-reported prosocial behaviors (Crisp, 2007) and global awareness have a greater responsibility to help others, expressing empathic caring toward the needy people (Reysen et al., 2013; Reysen & Katzarska-Miller, 2013). As our findings demonstrated, IWAH might directly make adolescents more aware of their global citizenship and more willing to help people in foreign affected areas.

Additionally, sympathy may also play a mediating role in the above relationship. Adolescents high in IWAH were more likely to feel sympathetic for people in COVID-19 affected areas. The significant direct path was consistent with research indicating that people were more likely to help those with a common category membership (Levine & Thompson, 2004). Dower (2002) has suggested that all human beings are global citizens but some people lack this awareness of their close connection with the whole humanity. Categorizing with a common group membership promotes people to engage in prosocial behaviors (Crisp & Hewstone, 2007). People with global awareness have a greater responsibility to help others, expressing empathic caring toward the needy people (Reysen et al., 2013; Reysen & Katzarska-Miller, 2013). As our findings demonstrated, IWAH might directly make adolescents more aware of their global citizenship and more willing to help people in foreign affected areas.

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