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### Acculturation and suicidal ideation among Turkish migrants in the Netherlands

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#### ABSTRACT

More suicidal ideation and higher rates of attempted suicide are found in Turkish people when compared with the general population in Europe. Acculturation processes and related distress may explain an elevated risk of suicide. The current study investigates the association between acculturation and suicidal ideation among Turkish migrants in the Netherlands. The mediating effect of hopelessness and moderating effect of secure attachment are also examined. A total of 185 Turkish migrants living in the Netherlands were recruited through social media and through liaison with community groups. They completed an online survey including validated measures of suicidal ideation, hopelessness, acculturation and attachment style. Mediation and moderation analyses were tested using bootstrapping. Higher participation was associated with less hopelessness and less suicidal ideation. Greater maintenance of one's ethnic culture was associated with higher hopelessness and higher suicidal ideation. Greater participation was associated with less suicidal ideation particularly amongst those with less secure attachment styles. Turkish migrants who participate in the host culture may have a lower risk of developing suicidal thinking. Participation may protect against suicidal thinking, particularly among those with less secure attachment styles.

#### 1. Introduction

There is a variation in rates and characteristics of suicidal behaviours between and within migrants in Europe. Some of this variation is associated with certain ethnic groups being at special risks for suicidal behaviours (Haigh et al., 2016). Turkish populations are one of the largest migrant populations in Europe whose suicidal behaviour deserves further attention (Bursztein Lipsicas et al., 2012).

Gender and age disparities exist between the Turkish migrants and the native populations from across Europe in the manifestation of suicidal behaviours (Aichberger et al., 2015b). In the Netherlands, people of Turkish descent die because of suicide at a younger age compared to Dutch natives (Turkish men: mean age 32; Turkish women: 32; Dutch men: 48; Dutch women: 51) (Garssen et al., 2006). Turkish immigrant girls (age 10–17) in Germany die more often by suicide than Turkish immigrant males, and the female to male ratio (3:2 among German vs 0:6 among Turkish) is reversed compared to the native German population in this age group in particular (Razum and Zeeb, 2004). There is also an increased risk of suicidal ideation in Turkish adolescents (38.1%) compared to Moroccan (28.9%) and Dutch (17.9%) adolescents (van Bergen et al., 2008). Furthermore, the hospital based registration studies showed that young women of Turkish descent in Germany (Lizardi et al., 2006), in the Netherlands (Burger et al., 2009) and in Switzerland (Brückner et al., 2011) respectively, are more than five times more likely to attempt suicide than German native women (0.51% vs 0.09%) two-three times more likely to attempt suicide than Dutch native women (0.65% vs 0.17%).

Currently, little is known about how the risk for suicidal behaviours is generated among Turkish migrants. Since migration background is

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also relevant to other migrant groups, it is perhaps not crucial in explaining the increased suicide risk in Turkish migrants in particular.

Difficulties in acculturation processes might be central to the increased suicidal ideation and attempts (Bhugra, 2004; van Bergen et al., 2012). Acculturation occurs when a culture encounters a dominant alternative culture (Berry, 1997; Brown and Zagefka, 2011). Berry's bidimensional model of acculturation suggests that at the psychological level, ethnic groups and individuals involved in the acculturation process face two fundamental issues: The first issue, "cultural maintenance" or bonding social capital, is the wish to linkage to those of one's cultural background and the second issue, "participation" or bridging social capital, is the wish to linkage to those of other majority and minority groups (Brown and Zagefka, 2011).

How the acculturation experiences of an ethnic minority group becomes stressful can be explained through the cultural conflict theory (Bhugra, 2004; Lester, 2008; Lester, 2013). When the perceived pressure to adjust to the majority culture contrasts with the expectations for cultural continuity in minority culture, then these stressful experiences can precipitate suicidal behaviours among members of the minority group. Research in Belgium indicates that Turkish migrants with greater cultural maintenance report more distress in their contact with other minority and majority populations especially when they perceive their ethnic identity as incompatible with the majority culture (Güngör, 2008; Güngör and Bornstein, 2009; Phalet and Schonpflug, 2001). It is known that Turkish migrants in Europe have strong ties with their country of origin (Klok et al., 2017). In line with the cultural conflict theory, it could be argued that greater cultural maintenance among Turkish migrants might leave them more prone to experience distress in their daily interactions with other groups which may precipitate other suicide risk factors such as hopelessness leading to suicidal behaviours (Baysu et al., 2013; Phalet et al., 2015; Van Acker and Vanbeselaere, 2012).

Hopelessness is one of the most heavily studied suicide risk factors (e.g. Lester et al., 1979). It is a cognitive component of depression and is defined as a decrease in positive future expectancies (van Beek, 2013).

Recent research suggests ethnic variability in relation between hopelessness and suicidal behaviours (Polanco-Roman and Miranda, 2013; Durant et al., 2006). For instance, a prospective study on an ethnically diverse sample of migrants indicated that hopelessness was a mediator in the associations between culturally related stressors and suicidal ideation (Polanco-Roman and Miranda, 2013).

In extend, the association between acculturation and suicidal ideation might be moderated by other suicide risk factors such as attachment (e.g. Zeyrek et al., 2009, Van Leeuwen et al., 2010).

Attachment refers to the interaction strategies with others in new situations and is derived from the early emotional experience with primary caretakers (Bowlby, 1973; Bartholomew and Horowitz, 1991; Lizardi et al., 2011). There is a well-established evidence suggesting a link between insecure attachment styles and suicidal behaviours (e.g. Adam et al., 1996; de Jong, 1992; Zeyrek et al., 2009; Stepp et al., 2008).

Attachment has been identified as one of the predictors of particular acculturation dimensions (Bhugra, 2004; van Leeuwen et al., 2010). Theoretically, it could be argued that, attachment styles in early years of life form the basis of our attitudes and adaptation strategies in our ingroup and out-group interactions (Hofstra et al., 2005; van Oudenhoven and Hofstra, 2006). Further support for the predictive role of attachment in acculturation comes from both correlational and prospective studies. For instance, migrants with secure attachment styles were found to be positively oriented to participating in the host country whereas; migrants with dismissive-avoidant attachment styles, appeared to be more positively oriented to maintaining their heritage culture (Handojo, 2000; De Pater et al., 2003; Bakker et al., 2004).

In the present study, we assess the extent of the relationship between acculturation and suicidal ideation among the Turkish migrants in the Netherlands. On the basis of the attachment theory, we assume that attachment style is settled early in life and is an effect modifier increasing or decreasing the risk for suicidal behaviours. Hopelessness on the contrary, is perhaps dependent on the other culture related stressors such as, acculturation (e.g. Polanco-Roman and Miranda, 2013) and functions as a mediator in the associations between the acculturation and suicidal ideation. It is expected that, a more secure attachment style, and greater participation in the host culture is associated with less hopelessness and less suicidal ideation. On the contrary, a less secure attachment style, and greater maintenance of one's ethnic culture is associated with more hopelessness and more suicidal ideation. We investigate the following research questions:

Is there an association between acculturation and suicidal ideation? Does hopelessness mediate the relationship between acculturation and suicidal ideation?

Does attachment style is an effect modifier of the association between acculturation and suicidal ideation?

#### 2. Method

#### 2.1. Participants

Participants were 185 (114 women, 71 men) Turkish migrants with a mean age of 36 years (M = 36, SD = 11.9, range 18–75). The aim was recruiting 1st and 2nd generation individuals with Turkish descent. The inclusion criteria were: living in the Netherlands, having Turkish ethnic background (i.e. with at least one parent or grandparent born in Turkey), 18 and older, having sufficient command of Dutch or Turkish language and giving informed consent.

#### 2.2. Procedure

The study was approved by the Scientific and Ethical Review Board of the Faculty of Psychology and Education of the VU University Amsterdam (VCWE). The recruitment took place in 2013 and 2014 based on convenience sampling. Participants were recruited through social media and through liaison with community groups. Interested participants contacted the research team through e-mail. Then the information letter, informed consent form and a link to the online questionnaire were shared. Both Turkish and Dutch languages were used during the inclusion process.

#### 2.3. Materials

Participants could choose between the Turkish and the Dutch versions of the questionnaires. Only 8 participants chose the Dutch language. Thus, we couldn't compare those who filled in the Dutch questionnaire with those who filled in the Turkish questionnaire to see if there was any effect of the language choice (Oyserman and Lee, 2008). Suicidal ideation was measured through the suicide ideation subscale of the Suicide Probability Scale (SPS; Cull and Gill, 1990) which is a self-report measure for the assessment of an attempted suicide potential in adolescents and adults. The suicide ideation subscale consists of 8 items. Items are scored using a four points scale where 1 refers to 'none or a little of the time' and 4 refers to 'most or all of the time'. Some of the items are: "I think of suicide in order to punish others" and "I feel like dying is better than living like this". The total scores ranged from 8 to 31 in our sample and they can possibly range from 8 to 32 with higher scores indicating higher suicidal thinking. The SPS scale reported good test re-test reliability and internal consistency (Eskin, 1993; Gençöz and Or, 2006; Atli et al., 2009). In our sample the internal consistency of the subscale was good ( $\alpha = 0.74$ ).

The level of acculturation was measured through the Lowlands Acculturation Scale (LAS; Mooren et al., 2001). LAS is a structured questionnaire consisting of 25 statements which represent the difficulties that migrants might face. Some of the items are: "I have frequent contact with (Dutch) people" and "It is important to celebrate the (Turkish) traditional fest in the (Netherlands)". On the basis of a sixpoint Likert scale, item scores range from 1 (not applicable) to 6 (very applicable). The instrument is validated among Turkish migrants living in the Netherlands (Mooren et al. 2001). Because of the purpose of the research questions addressed in this paper, we used the adapted version of the scale which was used by Ünlü İnce and colleagues (Ünlü Ince et al., 2014) measuring participation and maintenance as two independent dimensions. These dimensions were created following the two-dimensionality theory of Berry (Berry, 1997) on the basis of the exploratory factor analysis (Ünlü İnce et al., 2014). The 2 subscales are: participation (measured by 4 items) and maintenance (measured by 11 items). The total score for participation ranges from 4 to 23, and for the maintenance from 11 to 60 with higher scores indicating a greater degree of participation and maintenance. The new sub scales showed good reliability as chronbach's alpha was 0.86 for both scales in the previous study (Ünlü İnce et al., 2014). In our sample they also had good internal consistency: participation ( $\alpha = 0.79$ ) and maintenance  $(\alpha = 0.80).$ 

Hopelessness was measured thorough the Beck Hopelessness Scale (BHS; Beck et al., 1974). BHS is a 20-item true-false inventory which measures a pessimistic outlook for the future. Some of the items are: 'I don't expect to get what I really want' and 'It is very unlikely that I will get any satisfaction in the future'. Item scores range from 0 to 1 and the total scores can range from 0 to 20 with higher scores indicating a greater degree of hopelessness. The Turkish and Dutch versions of the scale reported good internal consistency and test–retest reliability (Seber et. al., 1993). The internal consistency of the scale was also good in our data ( $\alpha = 0.74$ ).

Attachment styles were measured through the Attachment style Relationship Questionnaire (RQ; Bartholomew and Horowitz, 1991). RQ consists of 4 items each rated on a scale 1 (strongly disagree) to 7 (strongly agree) with higher scores indicating higher characteristics of the particular attachment style for each item on the questionnaire. The 4 items are: secure (comfortable with intimacy and autonomy), dismissive (counter-dependent), preoccupied and fearful (socially avoidant). For example, the secure attachment item is: "It is easy for me to become emotionally close to others, I am comfortable depending on them and having them depend on me, I don't worry about being alone or having others not accept me" and the dismissive attachment item is: "I am comfortable without close emotional relationships, it is very important to me to feel independent and self-sufficient, and I prefer not to depend on others or have others depended on me". The Turkish and Dutch versions reported good test-retest reliability and good concurrent validity with the Relationship Scales Questionnaire (Sümer and Güngör, 1999).

#### 2.4. Data analysis

Descriptive statistics were used to report a gender difference in demographical variables. General Linear Model analysis was conducted to test if two acculturation dimensions, attachment styles and hopelessness were uniquely related with suicidal ideation. The Statistical Package for the Social Sciences (SPSS) version 21 was used for these analyses. Mediation tests between hopelessness, acculturation and suicidal ideation were performed. Interaction between secure attachment, acculturation and suicidal ideation was tested via PROCESS model (Hayes, 2013) using 5000 bootstrapped samples.

#### 3. Results

Means and standard deviations of study variables are provided in Table 1. There were no differences between males and females on any of the study variables. The total mean score for suicidal ideation was low (M = 12.64, SD = 3.49) suggesting low suicidal ideation scores among participants in this study. The total mean score on maintenance

 Table. 1

 Table of mean and standard deviation of study variables (N = 185).

Variables	Total ( $N = 185$ )		Gender Female ( $N = 114$ )		Male ( $N = 71$ )	
	Mean	Standard deviation	Mean	Standard deviation	Mean	Standard deviation
Age	34.00	11.90	33.41	12.34	34.00	11.30
Suicidal Ideation	12.64	3.49	12.53	3.35	12.81	3.72
Level of acculturation						
Participation	9.41	5.02	9.84	5.13	8.72	4.81
Maintenance	42.80	8.74	42.78	9.22	42.83	8.74
Hopelessness	9.66	1.66	9.57	1.69	9.80	1.60
Attachment style						
Secure	5.27	1.72	5.21	1.71	5.37	1.73
Dismissive- Avoidant	3.07	1.93	3.16	1.91	2.91	1.96
Pre-occupied	3.86	1.65	3.89	1.63	3.80	1.70
Fearful	3.13	1.83	3.05	1.83	3.25	1.82

(M = 42.80, SD = 8.74) was higher compared to the total mean score on participation (M = 9.41, SD = 5.02), indicating that the cultural maintenance (i.e. the wish to linkage to those of one's cultural background) was possibly more common in the current sample. The total mean score for hopelessness (M = 9.66, SD = 1.66) indicates moderate degree of hopelessness (i.e. a decrease in positive future expectancies).

The unique associations between acculturation strategies, attachment styles and hopelessness with suicidal ideation after controlling age and gender were tested with the General Linear Model approach. The results of the test are demonstrated in Table 2.

The model accounted for 28% of the variance in participants` suicidal ideation scores. Both acculturation strategies: higher participation (B = -0.18, SE = 0.045, p < 0.000, 95% CI [-0.271, -0.095]) and higher maintenance (B = -0.07, SE = 0.03, p = 0.031, 95% CI [-0.134, -0.007]) were uniquely associated with lower suicidal ideation. Higher hopelessness was associated with higher suicidal ideation (B = 0.03, SE = 0.009, p < 0.000, 95% CI [0.016, 0.050]). Higher secure attachment was associated with lower suicidal ideation (B = -0.03, SE = 0.015, p = 0.024, 95% CI [-0.062, -0.004]) (see Table 2).

## 3.1. Indirect associations between acculturation, hopelessness and suicidal ideation

We have done two separate mediation analyses. For the first, participation was entered as an independent variable; hopelessness was a mediator and suicidal ideation as an outcome. For the second,

#### Table 2

Summary of the general linear model for the study variables associated with suicidal ideation (N = 185).

Variables <i>Adj. R<sup>2</sup></i>	$\frac{\Delta R^2}{0.28}$	B (95%CI)	SE	р
Age		-0.00 (-0.006, 0.002)	0.00	0.333
Gender (Male $= 1$ , Female $= 2$ )		-0.04 (-0.042, 0.137)	0.04	0.293
Participation		- <b>0.18</b> (-0.271,	0.04	0.000
		-0.095)		
Maintenance		- <b>0.07</b> (-0.134,	0.03	0.031
		-0.007)		
Hopelessness		<b>0.03</b> (0.016, 0.050)	0.00	0.000
Secure		- <b>0.03</b> (-0.062,	0.01	0.024
		-0.004)		
Dismissive		-0.00 (-0.029, 0.023)	0.01	0.824
Preoccupied		0.00 (-0.024, 0.032)	0.01	0.775
Fearful		0.02 (-0.004, 0.050)	0.01	0.100

Notes: The values are unstandardized regression coefficients (B), their standard errors (SE), and 95% confidence intervals (CI).

maintenance was entered as an independent variable, hopelessness as a mediator and suicidal ideation as an outcome. First analysis revealed that, higher participation was significantly associated with lower hopelessness (B = -1.92, SE = 0.34, p < 0.001, 95% CI [-2.58, -1.26]) and higher suicidal ideation (B = 0.03, SE = 0.01, p < 0.001, 95% CI [0.02, 0.05]) (See Fig. 1a). The results indicated a significant indirect association between participation and suicidal ideation, (B = -0.07, Boot SE = 0.03, 95% CI [-0.14, -0.02]). In the second analysis, higher maintenance was significantly associated with higher hopelessness, (B = 0.59, SE = 0.25, p = 0.0203, 95% CI [0.09,1.09]) (See Fig. 1b). Hopelessness was significantly associated with suicidal ideation after controlling maintenance, (B = 0.05, SE = 0.01,p < 0.001, 95% CI [0.03, 0.06]). The indirect association between maintenance and suicidal ideation was also significant, (B = 0.03, Boot SE = 0.02, p < 0.001, 95% CI [0.01, 0.07]) indicating that higher maintenance was associated with higher hopelessness and higher suicidal ideation.

## 3.2. Moderated associations between secure attachment acculturation and suicidal ideation

We performed two separate moderation analyses. For the first analysis, we have entered participation as an independent variable, secure attachment as a moderator and suicidal ideation as an outcome. For the second analysis, maintenance was entered as an independent variable; secure attachment as a moderator and suicidal ideation as an outcome. In the first analysis, the interaction of participation in the host culture with secure attachment was found to be significant, (B = 0.08,SE = 0.02, p = 0.0002, 95% CI [0.4, 0.12]). As depicted on Fig. 2, the association between higher participation and lower suicidal ideation was stronger particularly among those with less secure attachment (B = -0.32, SE = 0.05, p < 0.001, 95% CI [-0.42, -0.22]). The association between higher participation and lower suicidal ideation was weaker for people with more secure attachment (B = -0.05, SE = 0.05, p = 0.3039, 95% CI [-0.16, 0.05]). In the second analysis, the interaction between maintenance and secure attachment was nonsignificant (B = -0.01, SE = 0.02, p = 0.3449, 95% CI [-0.05, 0.02]). Thus, secure attachment was an effect modifier only for the association between participation and suicidal ideation indicating that among those with less secure attachment, the more they participate in the host culture, the less they think of suicide.

#### 4. Discussion

The present study indicates that Turkish migrants who actively participate in the host culture may have a lower risk of developing suicidal thinking. Participation may protect against suicidal thinking, particularly among those with less secure attachment styles. Overall, the protective role of participation is in line with the literature suggesting a pathway linking participation in the host country with more social support and resilience against suicidal behaviours among migrants (e.g. Bhui et al., 2012; Schweiter et al., 2006).

The protective role of participation in the host country contradicts with the studies reporting that the strong identification with the heritage culture increases resilience against mental health problems (Pascoe and Richman, 2009). Yet, it is in line with the research suggesting that cultural maintenance increases perceived discrimination and subsequent psychological distress among women of Turkish descent in Germany (Aichberger et al., 2015a). These contradictory findings in the literature highlights two things which might be helpful to understand what makes acculturation protective or a risk enhancement for mental health. First, it is important to know whether the mainstream culture adoption or the cultural continuity is dominant in migrants` lifestyle. Second, the extent of the cultural conflict is relevant. The literature suggests that the greater the disparity between the demands of the host culture and the minority culture, the greater the risk for psychological distress and subsequent mental health problems (Bhugra, 2004).

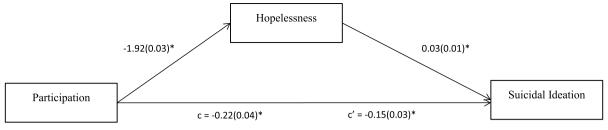
In the light of the cultural conflict thesis, it could be argued that the present sociopolitical conditions such as raising political conservativism, nationalism, racism and subsequent discriminatory politics discourage cultural continuity among migrants. Because Turkish migrants have strong ties with their culture of origin (Klok et al., 2017), the perceived pressure to fit in might lead to opposing cultural maintenance to mainstream culture adoption. Since maintaining traditional cultural values are not welcome on a national level, opposing cultural maintenance might precipitate distress in interactions with other groups, hopelessness and ultimately the risk for suicidal ideation and attempts (Brown and Zagefka, 2011; Phalet et al., 2015; Walker et al., 2008).

The interaction of attachment style, acculturation and suicidal ideation suggests that, those who are less securely attached might be more vulnerable for suicidal ideation especially if they also have higher orientation to maintain their ethnic culture. It is known that the insecure attachment styles are characterized by the sense of unworthiness (unlovability) and the anticipation of rejection by the others (e.g. Bowlby, 1973). At the psychological level, this would mean that the current socio-political context is more likely precipitate this anticipation of rejection by the other groups. Arguably, engaging in daily social interactions with the members of other minority and majority communities might provide them positive intergroup contacts which would contradict the anticipation of rejection and reduce the risk for suicidal thinking and attempts in return (Phalet et al., 2015; Sheftall, 2010; Van Acker and Vanbeselaere, 2012).

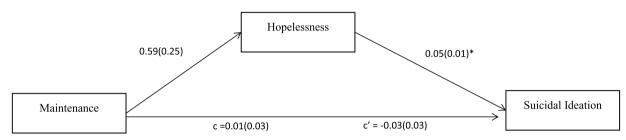
One unexpected finding was that, the suicidal ideation scores were low in our sample (M = 12.64, SD = 3.49). This could be due to our sample of middle-aged participants. In cross cultural studies, there is an indication that the percentages for suicidal ideation are comparable between Turkish adolescents and adolescents from Europe (e.g. Slovak = 36.4%; Turkish = 33.8%) (Eskin et al., 2014). However, the percentages for suicidal ideation are higher among the Turkish migrant adolescents (38.1%) compared to Dutch adolescents (17.9%) in the Netherlands (van Bergen et al., 2008). It maybe that with a younger sample, the suicidal ideation scores could have been higher.

Interestingly, the mean scores for hopelessness (M = 9.66, SD = 1.66) were high compared to Turkish University student population (M = 4.22, SD = 4.33) (Zeyrek et al., 2009), Turkish general population (M = 4.14, SD = 3.72) (Eskin, 2017) and Hispanic migrant sample in the US (M = 4.30, SD = 3.76) (Dueweke et al., 2015). The low mean scores for suicidal ideation in spite of the high hopelessness scores could be attributed to the possible greater cultural maintenance in our study. Having stronger traditional religious values have been linked with negative attitudes towards disclosing suicidal thoughts amongst the Turkish populations (Eskin, 2003, 2004). It maybe that in our sample, disclosing suicidal thoughts was less acceptable than disclosing hopelessness about future because of the shame and stigma attached to publicising suicidal thoughts (Eylem et al., 2016).

In contrast to the one of the persistent trends in suicide research showing great variation between men and women, our results did not reveal such differences. Gender and age disparities in suicidal behaviours exist in Turkish populations (van Bergen et al., forthcoming). A study from Germany on suicide prevention campaign for women of Turkish descent (Scholer-Ocak, 2015) reported that the most common reason for thinking of suicide was the conflict with the informal network (e.g. family, partner) concerning the family honour (33.8%) (Scholer-Ocak, 2015). This would mean that the demands for cultural continuity (i.e. maintaining family honour) would be greater among Turkish females which would put them in a vulnerable position for stressful acculturation experiences and suicidal behaviours (e.g. van Bergen et al., 2012). Because of the methodological limitations, this risk group in particular might not be represented in the current study. Future studies must investigate whether different pathways to suicidal



**Fig. 1a.** <sup>1</sup>. The path analysis indicated a significant indirect association between participation and suicidal ideation (B = -0.07, Boot SE = 0.03, 95% CI [-0.14, -0.02]) through hopelessness. The presented values on the Figure are unstandardized regression coefficients and their standard errors \*p < 0.001.



**Fig. 1b.** The path analysis showing an indirect association between maintenance and suicidal ideation (B = 0.03, Boot SE = 0.02, p < 0.001, 95% CI [0.01, 0.07]) through hopelessness. The presented values on the Figure are unstandardized regression coefficients and their standard errors \*p < 0.001.

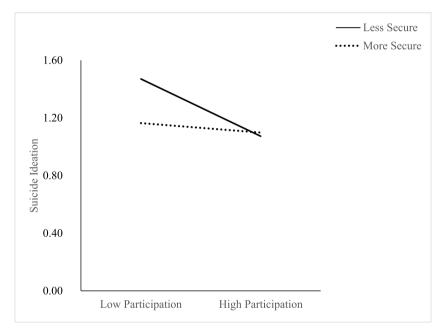


Fig. 2. The interaction between participation and suicidal ideation, indicating that the association between higher participation and lower suicidal ideation was stronger particularly amongst people with less secure attachment. Scores of both participation and secure attachment were centred.

behaviours exist among Turkish females and whether there are differences between the first and second generation within this group.

It must be underlined that our results should be understood in accordance with the Berry's bi-dimensional framework which suggests that the acculturation processes are essentially the same for all. One argument against this universalist approach suggests that migrants constantly go through the process of social transformation in line with the changing dynamics of labor forces in highly developed countries (Castles, 2010). This would mean that the process of acculturation is multidimensional and cannot be possibly understood as either migrants participate in the host culture or maintain their heritage culture. It can be both-that is, they can participate in both communities and maintain their heritage culture at the same time. (Borges et al., 2009; Hassan, 1995; Cetin 2015; 2017). The methodological implication of the multidimensional nature of the acculturation construct is, measurement difficulties. The difficulty with measuring acculturation restricts our current understanding of how acculturation is linked with the mental health outcomes (Salant and Lauderdale, 2003). Furthermore, the bidimensional model has been criticized for ignoring the dynamics of the intergroup processes central to the acculturation experiences of minority groups as well as majorities in the host country (Brown and Zagefka, 2011; Pettigrew and Trop, 2006). The intergroup relationships perspective suggests that the conflicting acculturation orientations between the minority and the majority groups determines the

 $<sup>^{1}</sup>$  c stands for the total association between independent variable and outcome, whereas c' stands for the direct association between them (i.e., the association between independent variable and outcome after controlling the effect accounted for by mediator).

acculturation experiences of the members of the minority group. The policy towards diversity in the host country is another important contextual determinant of the intergroup relationships and subsequent cultural conflict (Castles, 2010). Future research should take the contextual factors into account and should also investigate if the migrants` interaction with the majority culture can be identified as a protective as well as a risk factor for suicidal behaviours from the viewpoint of the intergroup relations theory.

#### 4.1. Strengths and limitations

The current study has various innovations. We have connected attachment styles with Berry's bi-dimensional acculturation model. Thus, the results indicate that variations in acculturation experiences could be related with attachment styles. This has been suggested by previous research (e.g. Hofstra et al., 2005; van Oudenhoven and Hofstra, 2006). Further, the results also provide new insights on how acculturation experiences might hinder social adaptation leaving Turkish migrants more prone to hopelessness for their future, and suicidal thinking.

A further advantage of this study is to study an "at risk" population with constricted reachability (Jansen-Kallenberg et al., 2017). In line with the previous research, it appears that, using multiple channels such as social media and newspapers advertisements in multiple languages are more effective in reaching hard-to-reach populations (Aichberger et al., 2013; Jansen-Kallenberg et al., 2017; Ünlü İnce et al., 2014).

There are several methodological limitations to this study. First of all, the current study is cross-sectional which implies that the findings in this study are only a snapshot of reality. Future studies should utilize prospective designs in order to test a broader hypothesis suggesting a path in which higher participation in the Dutch society might be associated with lower suicidal ideation amongst those who are less securely attached.

Second, the small number of participants with high suicidal ideation scores resulted in low power to detect possible associations and differences. In spite of this limitation, we found strong associations between hopelessness, participation and suicidal ideation in line with the earlier research.

Third, participants were recruited based on a convenience sample. Thus, the sample characteristics might not represent the Turkish migrant population in the Netherlands. It maybe that with a bigger and a representative sample of the Turkish migrant population, higher rates of suicidal ideation and gender differences can be found.

Fourth, the self-selection bias also limits the representativeness of the current sample. Future studies could benefit from adjusting for selection bias in their data analysis (Keeble et al., 2015). Another method is to predict the amount of selection bias by using information from non-respondents (Keeble et al., 2015).

Fifth, only a limited number of risk factors have been measured. Other factors such as socio economic background (i.e. poverty, unemployment) and education level have to be identified to study the association between demographic risk factors such as gender and suicide outcomes (e.g. Bhugra et al., 1999a,b,c). Future studies should measure demographic characteristics in a bigger sample.

Sixth, the cross-cultural validity of the two new sub-scales: participation and maintenance of the LAS has not been tested. The new subscales were created previously by Ünlü İnce and colleagues and showed good reliability (e.g. Chronbach's alpha was 0.86 for both scales) (Ünlü İnce et al., 2014). In our sample, they also showed good reliability (e.g. Chronbach's alpha was 0.79 for participation and 0.80 for the maintenance). Further research investigating cross-cultural validity of the new sub-scales in different populations is needed.

Another notable limitation was the use of a brief self-report to measure attachment styles in the study. In depth structured clinical interviews might give more reliable results compared to self-report measures. Lastly, we did not study whether the associations between acculturation and suicidal ideation were different between 1st, 2nd and 3rd generation. Different acculturation experiences across generations might be differentially related with the risk factors leading to suicidal ideation (Cetin, 2015; 2017; Klok et al., 2017). Future studies should investigate the differences in the associations between acculturation and suicidal behaviours among first and later generations.

#### 4.2. Implications and conclusions

The findings of the current study support the view of healthy culture as the one which adapts to assist people and groups to cope and do better in the world and as such should not be overly rigid or fixed. Participation in the host culture can create opportunities for interactions between groups which would assist group members to adapt to each other. Thus, participation in the host country should be an essential element of national mental health policies. On the part of the psychological service providers, an important clinical implication might be including acculturation as a component in screening and treatment for mental health problems (e.g. depression) and suicidal behaviours. The assessment of acculturation and attachment styles may be useful in identifying high risk profiles of migrants. Awareness of mental health professionals of the acculturation experiences as risk or protective factors for suicidal behaviours should be promoted. This approach might help service providers' engagement in service users' help-seeking process. This is central to improving the provision of psychological services for the Turkish populations as well as other migrant groups. Thus, more attention and prominence should be given to acculturation in migrants in general, and further understanding on how it leads to suicidal behaviours specifically.

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#### Supplementary materials

Supplementary material associated with this article can be found, in the online version, at doi:10.1016/j.psychres.2019.02.078.

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