HOME AWAY FROM HOME— THE ROLE OF SOCIAL SUPPORT FOR INTERNATIONAL STUDENTS’ ADJUSTMENT

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ABSTRACT

Purpose – Academic and psychological adjustment of international students is central to their success while pursuing their degrees abroad. However, acculturation stress is abundant and may pose as a challenge. Thus, in this study we examined whether social support mediates the association between acculturation stress and academic and psychological adjustment.

Methodology – A cross sectional research design was employed. A total of 200 postgraduate international students from three Malaysian public universities were recruited to participate in the study. The Student Adjustment to College Questionnaire was employed to measure their academic adjustment and psychological adjustment. The Multidimensional Scale for Perceived Social Support and the Acculturative Stress Scale for International Students were used to collect data on social support and acculturation stress. Path analysis by AMOS 23 was used to test the hypothesized relationship.

Findings – Results provided support for the proposed model, revealing that social support was associated with greater academic and psychological adjustment among international students.

Significance – The present study has implications for university policies, counsellors, and student affairs departments on the need to take measures to facilitate healthy academic and psychological adjustment among international students.
Keywords: International students, higher education, acculturation stress, social support, academic adjustment and psychological adjustment.

INTRODUCTION

Millions of students travel every year to pursue higher education. These international students contribute to cultural diversity on university campuses, and as they bring with them a wide range of knowledge and skills, they also add to the intellectual capital of the host country. Their stay is mutually beneficial as they bring various assets to the host country and in return gain higher education (Smith & Khawaja, 2011). However, the socio-psychological and academic adjustment of international students may not be easy, as they try to adapt to differences in cultural and academic environment between them and the host country (Glass & Westmont, 2014). International students frequently report that factors such as language barriers (Meng, Zhu, & Cao, 2018), academic styles (Misra, McKean, West, & Russo, 2000), separation from home (Hendrickson, Rosen, & Aune, 2011), poor social integration and problems in daily life tasks (Yeh & Inose, 2003) inhibit their adjustment. These factors also contribute towards stress and anxiety, which impact upon international students’ acculturation (Meng et al., 2018; Yan, 2017), i.e., their ability to respond to or cope with life events that are rooted in cross-cultural contact (Berry, Phinney, Sam, & Vedder, 2006). Furthermore, failure to adjust to these challenges can be detrimental to various aspects of college life, resulting in poor academic results, psychological and physical health issues and dropping out (Hang, Kaur, & Nur, 2017; Martirosyan, Hwang, & Wanjoji, 2015).

Recent studies have found mixed results on whether acculturation stress and academic and psychological adjustment challenges are beneficial or deleterious. A growing body of literature suggests that stressful life events can lead to stress related growth, i.e., positive life changes such as enhancing personal strength, discovering new possibilities in life, strengthening meaningful relationships, gaining an appreciation of life, and enhancing spiritual growth (Holm-Hadulla & Koutsoukou-Argyraki, 2015; Kim & Kim, 2013; Kim, Suh, & Heo, 2014; Pogrebtsova, Craig, Chris, O’shea, & GonzálezMorales, 2018). On the other hand, it has also been demonstrated that international students encounter cultural identity
confusion (de Araujo, 2011), strained interpersonal relationships (Glass, 2014), health problems (Li et al., 2017), feelings of isolation (Wang & Hannes, 2014), homesickness (Poyrazli & Grahame, 2007), and poor self-esteem (Kim & Kim, 2013) which in return affect their psychological well-being. Additionally, students who experience psychological problems face a greater risk of poor academic performance, which in turn perpetuates a cycle of stress, thus increasing academic failure and the potential to drop out (Richardson, Abraham, & Bond, 2012).

International students may also experience problems in academic adjustment due to an unfamiliar education system (Poyrazli & Grahame, 2007). A variety of factors associated with this element contribute significantly to academic stress. For example, international students experience problems due to differences in study and test taking techniques, classroom instruction and grading styles of the host country (Poyrazli & Grahame, 2007). Other challenges related to academic adjustment include student-supervisor relationship and quality of interactions with faculty (Cruwys, Greenaway, & Haslam, 2015) and new teaching styles. Some students have reported difficulties in meeting deadlines, working with other students in teams from different cultures (Wan, Nordin, & Razali, 2013), fulfilling course requirements, time management, and the pressure of doing well academically (Lowinger, He, Lin, & Chang, 2014).

In order to deal with acculturation stress and its accompanying stressors, an individual needs to use positive coping mechanisms (Dunkel-Schetter, Folkman, & Lazarus, 1987; Lee & Ciftci, 2014). Social support has been found to be a significant way of dealing with academic and psychological stress (Adelman, 1988; Rui & Wang, 2015; Van Gorp, Boroş, Bracke, & Stevens, 2017). Social support refers to the level of support that an individual perceives from general or specific supportive behaviours of people in their network such as friends or peer groups, which enhances functioning or may buffer him or her from adverse outcomes (Dao, Donghyuck, & Chang, 2007). There are many sources of social support including academic peer groups (Dao et al., 2007), informal interactions with faculty, personal tutorials (Rienties et al., 2012), social networks (Wilcox, Winn & Fyvie-Gauld, 2005), student support services (Poyrazli & Lopez, 2007), and intimate relationships with close friends and family (Myers-Walls et al., 2011). They provide individuals with the resources to cope with stress. For example, behaviours such as listening...
and demonstrating warmth and empathy support an individual’s affective well-being (Wei et al., 2011) and facilitate international students’ academic, behavioural and emotional adjustments (Zhou, Jindal-Snape, Topping, & Todman, 2008). Hence, support sources help to reduce stress and assist international students in their psychological adaptation (Brisset, Safdar, Lewis, & Sabatier, 2010; Sümer, Poyrazli, & Grahame, 2007), increase self-esteem (Sawir et al. 2008), and enhance academic performance (Rienties et al., 2012). Without addressing their stressors, international students may eventually develop physiological, emotional and psychological health issues (Hamamura & Laird, 2014) that would affect their learning, engagement (Suárez-Orozco, Onaga, & de Lardemelle, 2010), confidence (Zajacova, Lynch, & Espenshade, 2005), academic and social competence (Duru & Poyrazli, 2007) and self-concept in a negative manner (Heine & Lehman, 2004).

International students typically enrol in native English speaking countries such as the United Kingdom, Australia, Canada, and the USA. However, the trend has shifted towards enrolling in non-native English speaking countries such as China, Malaysia, India, Japan, Singapore, South Korea, and Taiwan (Luo, 2017). Malaysia particularly has been successful in attracting a large group of international students by offering low tuition fees and quality education (Ahmad & Buchanan, 2017). At present there are 122,000 international students from more than 160 countries in Malaysia (StudyMalaysia, 2017). Nevertheless, the difference between the students’ personal expectations and the reality of their Malaysian experience renders them highly prone to the deleterious effects of acculturative stress, which can influence their academic adjustment and psychological wellbeing (Lowinger et al., 2014; Martirosyan, Hwang, & Wanjohi, 2015). Several factors have been reported to contribute towards stress among international students in Malaysia. One example is the difficulty in understanding lecturers’ accents due to local dialectal variation and slang, as a range of accents exist in Malaysia due to its multi-ethnic population (Wan et al., 2013). Accumulation of such challenges can cast a negative impact on international students’ academic adjustment (Lillyman & Bennett, 2014; Lu, Dear, Johnston, Wootton, & Titov, 2014; Pan, 2015; Wider, Mustapha, Halik, & Bahari, 2017). Social support is an indicative buffering factor to cope with the deleterious effect of acculturative stress as it lowers susceptibility to psychological illness (Finch & Vega, 2003), which in turns enhances adjustment (Lee, Koeske, & Sales, 2004; Olivas & Li, 2006).
Social support is as an important construct which has been examined in mediational relation with acculturation stress (Katsiaficas, Suárez-Orozco, Sirin, & Gupta, 2013; Misra, Crist, & Burant, 2003; Oppedal, Røysamb, & Sam, 2004) and academic and psychological adjustment (Li & Gasser, 2005; Zhou, Jindal-Snape, Topping, & Todman, 2008). While there is rich literature describing acculturation stress affecting academic and psychological adjustment among international students, it can be noted that most of these studies are generally restricted to traditional study destinations such as the United Kingdom and Australia (Wan et al., 2013). To date, very few studies have been conducted in a multicultural and rapidly growing higher education hub such as Malaysia.

With the increasing diversity of international students, a study of this nature is essential for the advancement of knowledge in the field, as well as for Malaysia as the country aspires to recruit 250,000 international students in higher education (Kaur, Noman, & Nordin, 2017). The study is also important for the development of student perspectives on related concepts, which will enable counsellors to formulate stress interventions that can be applied empirically to different cultures.

**Theoretical Framework**

Studies on acculturation stress and international students’ adjustment have mainly applied instrumental theory, i.e., stress and coping theory (SCT) which explains how individuals adapt and cope in a culturally unfamiliar environment (Smith & Khawaja, 2011; Zhou, Jindal-Snape, Topping, & Todman, 2008). According to SCT, psychological stress is defined as “a particular relationship between the person and the environment that is appraised by the person as exceeding his or her resources and endangering his or her well-being” (Lazarus & Folkman, 1984, p. 19). SCT states that in a new environment, individuals are faced with challenges. To overcome these challenges, they use certain ways known as the coping process to manage difficulties. SCT identifies social support as a key coping process in a new environment (Lazarus & Folkman, 1984). The framework of the current study incorporates this theory and hypothesizes that international students using social support would engage in social interaction and build networks. This in turn would facilitate their academic and psychological adjustment.
According to Hayes (2009) when a third variable plays an important role in governing the relationship between two other variables, this type of relationship is known as mediation. The present study considered social support as a mediator based on the following conditions provided by Hayes (2009):

(a) The predictor (acculturation stress) and outcome (academic and psychological adjustment) variables initially have a significant relationship (Yeh & Inose, 2003),
(b) The potential mediator (social support) is significantly related with the predictor (acculturation stress) variable (Lee, Koeske, & Sales, 2004),
(c) The potential mediator (social support) is significantly related with the outcome (academic and psychological adjustment) variable (Andrade, 2006).

METHODOLOGY

Research design

The present study utilised a cross sectional research design for objective analysis of results and due to reliance on probability theory to test the statistical hypothesis (Popper, 2005).

Participants

The participants were 200 international students (45% female and 55% male) with a mean age of 30 years (SD= 7.07, range 22-45 years) who were recruited from three Malaysian public universities.

Procedure

Institutional permission to collect the data was obtained from each university. The cover letter attached to the questionnaire provided details about the purpose of the study, and the universities concerned were assured that individual responses and the names of the institutions would not be revealed in any publication. Students signed a consent form which informed that their participation was voluntary. The self-reported questionnaire, which took 15-20 minutes to complete, was administered in the English language.
Measures

The instruments used in the study were piloted to establish reliability and validity prior to data collection.

Demographic Questionnaire

A demographic questionnaire was used to collect participants’ background information such as age, gender, the level of education, semester and nationality.

Student Adaptation to College Questionnaire

Students’ psychological and academic adjustments were measured by the Student Adaptation to College Questionnaire (Baker & Siryk, 1989). The questionnaire has been validated by various studies in several countries including Belgium (Meng et al., 2018) and the United States (Glass, Gómez, & Urzua, 2014; Credé & Niehorster, 2012). It consists of four subscales: academic adaptation, social adaptation, personal-emotional adaptation, and attachment. However, in the present study only the academic and psychological adaptation scales was used due to the study focus. Academic adjustment was measured using 18 items (e.g., “I attend classes regularly and I consider a university degree important.”), while psychological adjustment was measured using 9 items, (e.g., “I am not able to control emotions well and I get angry too easily.”). All items were rated on a 5-point Likert scale, ranging from 1= strongly disagree to 5= strongly agree. Good internal consistency was obtained for both academic adjustment (α = .77) and psychological adjustment (α = .85).

Social Support

Social support was measured using the Multidimensional Scale for Perceived Social Support (MSPSS) (Zimet, Dahlem, Zimet, & Farley, 1988), which comprises 12 items designed to assess perceptions of social support from three specific sources: family, friends, and significant others. However, in the present study only the items related to support from friends were used as peers are instrumental in proving emotional and informational support to students who are away from home. Moreover, they are immediately available on campus and have information relevant to negotiating the university environment (Crockett et al., 2007; Rodriguez, Mira, Myers, Morris, & Cardoza, 2003). Additionally, peer support is
associated with better adjustment (Schneider & Ward, 2003) and lower psychological distress (Rodriguez et al., 2003). Items were also rated on a 5-point Likert scale (e.g., “My friends really try to help me.”), with higher scores indicating greater levels of perceived social support. The scale has also been validated by previous studies (Canty-Mitchell & Zimet, 2000; Friedlander, Reid, Shupak, & Cribbie, 2007; Zimet et al., 1988) and good internal consistency ($\alpha = .71$) was obtained in the present study.

**Acculturation Stress**

Acculturation was measured using 36 items from the Acculturative Stress Scale for International Students (ASSIS) (Sandhu & Asrabadi, 1994). The items on the scales are rated on a 5-point Likert scale ranging from 1 (strongly disagree) to 5 (strongly agree) where higher score indicate high acculturation stress. A sample item is “People from some ethnic groups show hatred toward me nonverbally.” In the present study the Cronbach’s alpha value was 0.84. Previous studies showed higher internal consistency (Duru & Poyrazli, 2007; Lowinger et al., 2014; Yeh & Inose, 2003).

**Statistical Analyses**

To test the adequacy of the proposed model, this study employed Path analysis using AMOS 23 (Bentler & Wu, 2005). Models of the study were tested with the standardised coefficients obtained by maximum likelihood estimation. Besides chi-square test statistics, goodness of fit of every path model was evaluated from multiple fit indices (Bentler, 2007) such as comparative fit index (CFI), the root mean squared residual (RMSEA), and the standardized root-mean-square test (SRMR) since the chi square test is sensitive to sample size (Bergh, 2015). For CFI, a value greater than .90 indicates a good fit; superior to .95 being ideal. For SRMR and RMSEA, a value below .05 indicates a good fit, whereas values up to .08 represent acceptable errors of approximation (Bentler, 2007).

**RESULTS**

**Preliminary Analysis**

Prior to running the hypothesized models, the final sample size (n = 200) was determined after dealing with the missing data. The amount of missing data in our sample was small: 1.3% of values across all
scales (Tabachnick & Fidell, 2007). To address the missing value, we removed participants (n = 31) as the participants missed more than 30% of the scales, whereas we used item-mean substitution (IMS) to impute the remaining missing values. Previous studies found that if the missing data is less than 10%, IMS reproduces dataset as accurately as other imputation methods (e.g., multiple imputation) across various missing patterns (Bono, Ried, Kimberlin, & Vogel, 2007; Zhang & Goodson, 2011). No multivariate outliers were found. Univariate normality with skewness and kurtosis for all the variables ranged between -1 and 1.

Testing the Proposed Model

To determine the model adequacy, we tested three models (a) direct effect, including direct path between acculturation stress with academic and psychological adjustment, (b) partial mediation path, indirect path between social support and academic and psychological adjustment, and (c) full-mediation path, including both direct and indirect mediation paths (Preacher & Hayes, 2004).

To test the mediating effects of social support on the relationships between acculturation stress and academic and psychological adjustment, bias-corrected 95% confidence intervals were computed.

Results

Model 1 showed a good fit to the data, \( \chi^2 (1) = 2.49, \) CFI= .96, RMSEA= .08, SRMR= .01. The standardized coefficient showed that acculturation stress negatively and significantly related to academic adjustment (\( \beta = -.42, p< .001 \)), and psychological adjustment (\( \beta = -.16, p< .001 \)). Altogether, the predictor explained 17 % of the variance of academic adjustment, and 8 % of psychological adjustment.
Subsequently, we tested Model 2 (see Figure 2, dashed lines) specifying acculturation stress as an indirect predictor of the outcome, with this relation being mediated by social support. The indirect paths are represented by dashed lines in Figure 2; the standardized regression values correspond to the first values represented on the top of each path. Model 2 yielded unsatisfactory fit to the data $\chi^2(3) = 31.90$; CFI=.81; RMSEA=.22; SRMR=.01. Acculturation stress was negatively related to social support ($\beta = -0.64$, $p < .001$) which, in turn, was positively related to academic adjustment ($\beta = 0.21$, $p < .001$) and psychological adjustment ($\beta = 0.28$, $p < .001$). Altogether, the predictor explained 4$\%$ of the variance of academic adjustment, and 8$\%$ of psychological adjustment.

In the final analysis, we tested the full mediation model, which is where direct and indirect effects were computed together in Model 3 $\chi^2(1) = 1.83$; SRMR=.008; CFI=.99; RMSEA=.06; adding direct paths significantly improved the model fit, $\Delta \chi^2(2) = 30.07$. Acculturation stress was negatively related to social support ($\beta = -0.64$, $p < .001$). The relationship between social support and psychological adjustment.
adjustment was found to be significant ($\beta = .30, p <.001$). However, the relationship between social support and academic adjustment was not significant ($\beta = .10$). Altogether, the predictor explained 18% of the variance for academic adjustment, and 9% for psychological adjustment. Model 3 yielded a significantly higher fit than Model 2. Additionally, the results show that adding a direct path to the model increased the explained variance of academic adjustment to 18% and psychological adjustment to 9%. However, after controlling for social support the relationship between acculturation stress and academic adjustment became non-significant, while all the rest of the hypothesized path coefficients remained significant. Thus, in terms of parsimony, the fully mediated model offered the best-fitting solution.

Despite the findings, the cross-sectional nature of the data made it difficult to assert the directionality of the association found. To overcome this limitation, we specified an alternative model (Model 4) in which we reversed the direction of the effects between the predictor and the criterion variables (Cordeiro, Paixão, Lens, Lacante, & Luyckx, 2018). Model 4 included paths from academic and psychological adjustment to acculturation stress via social support. Model 4 yielded a poor fit to the data, $c^2 (3) = 30.21; CFI=.82; RMSEA=.21; SRMR=.01$, thus providing some support for the casual ordering proposed in Model 3.

Table 1

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<tr>
<th>Model</th>
<th>$c^2$</th>
<th>df</th>
<th>$c^2$/df</th>
<th>N</th>
<th>CFI</th>
<th>RMSEA</th>
<th>SRMR</th>
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<tr>
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<td>2.49</td>
<td>1</td>
<td>2.49</td>
<td>200</td>
<td>.96</td>
<td>.08</td>
<td>.01</td>
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<tr>
<td>Model 2</td>
<td>31.90</td>
<td>3</td>
<td>10.63</td>
<td>200</td>
<td>.81</td>
<td>.22</td>
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<tr>
<td>Model 3</td>
<td>1.83</td>
<td>1</td>
<td>1.83</td>
<td>200</td>
<td>.99</td>
<td>.06</td>
<td>.008</td>
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<tr>
<td>Model 4</td>
<td>30.21</td>
<td>3</td>
<td>10.07</td>
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<td>.82</td>
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<th>Model comparisons:</th>
<th>$\Delta c^2$</th>
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<td>Model 2 vs. Model 1</td>
<td>29.41</td>
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<tr>
<td>Model 2 vs. Model 3</td>
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Taken together, the results on Model 3 support the mediation hypothesis outlined.
Discussion

The present study proposed that social support mediates the relationship between acculturation stress and academic adjustment and psychological adjustment. To test the hypothesized model, we proposed three models. Model 3 had significantly better fit compared with Models 1 and 2. The results of the study indicate that a high level of stress has a negative impact on individual psychological adjustment. These results are consistent with previous studies which found that international students face more psychological symptoms due to high levels of stress, as it causes anxiety (Sam, Tetteh, & Amponsah, 2015), homesickness (Thomas & Sumathi, 2016) and low self-esteem (Liao & Wei, 2014) which in turn affect their academic adjustment and psychological adjustment.

The final model highlights a significant negative relationship between acculturation stress and social support, which positively predicted psychological adjustment. In the current study context, these findings are interpreted with an explanation that international students lose contact with their loved ones and face loneliness, which causes emotional distress and psychological maladjustment (Naeeni et al., 2015). It is understood that social support from interpersonal networks, the graduate program itself, or the campus international student office have the potential to facilitate students in their psychological adjustment by reducing stress through proper social support (Ellison, Steinfield, & Lampe, 2007; Yeh & Inose, 2003; Zhang & Goodson, 2011).

The study also revealed that a negative relationship between acculturation stress and social support did not predict academic adjustment. However, contrasting results have been found in previous studies which have shown that social support networks such as peers and faculty staff helped international students to adjust well academically (e.g., Ellison et al., 2007; Zhang & Goodson, 2011). These findings suggest that students who have established social relationships would experience low levels of acculturation stress (Andrade, 2006; Singh, Zain, & Jamil, 2011) and would find it less challenging to cope with new academic demands; hence they would perform better academically. However, it has also been suggested that some forms of social support and activities such as participation in social club activities can have a negative effect on the academic performance of international students (Sennett, Finchilescu, Gibson,
& Strauss, 2003) and may not contribute significantly to academic adjustment. Hence, social support seems to be more instrumental in positively affecting their psychological adjustment compared with academic adjustment (Smith & Khawaja, 2011).

This study provides an understanding of international students’ adjustment-related challenges. By revealing the mediating role of social support in the link between acculturation stress and academic and psychological adjustment, the study has contributed valuable insights into what constitutes an effective environment for international students’ adjustment and more importantly, how social support acts upon psychological adjustment. The results of the study offer useful guidelines to institutions that wish to enhance student adjustment and attract more international students.

Based on the results, we provide some practical suggestions on facilitating the adjustment process of international students. Institutions of higher learning should provide numerous social support structures and introduction activities that provide information regarding the educational culture of the institution. Specifically, they should provide culturally sensitive training to learn about the host culture in terms of communication patterns, conflict resolution, rules and conventions. Such training sessions would help international students to gain more knowledge of the local culture and help them feel more confident, which should lead to more effective communication and less emotional stress due to misunderstanding. Hence, their adjustment process would be enhanced. Social events and social networks that aim to bring national and international students together could also facilitate social support. Moreover, universities should provide adequate platforms to facilitate efforts by international students to establish organizations that would them become settled. They should also endeavour to actively provide programs and events through which international students can interact with each other to increase their social support network.

Limitations and Implications for Future Studies

The present study has some limitations. First, the data was collected at one point only, so longitudinal relations were not addressed. In order words, causal directions could not be determined as the research design was cross sectional. Future studies may adopt pretest and post-test methodology to determine whether the psychological
symptoms of international students are pre-existing issues or outcomes of the acculturation. Second, the sample size was small, which may not have accurately reflected a comprehensive view of international students. Future studies using a larger sample size and longitudinal designs should be attempted. Third, the present study did not incorporate certain acculturation stressors (e.g., financial concerns). The effects of such stressors on students’ adjustment are still under-researched. The present study also recommends that future research should explore various factors related to social involvement at the university and its effect on students’ adjustment.

References


Wilcox, P., Winn, S., & Fyvie Gauld, M. (2005). ‘It was nothing to do with the university, it was just the people’: the role of


