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Attitudes towards sport psychology consulting in athletes: Understanding the role of culture and personality

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Abstract

The purpose of this study was to investigate how an athlete’s Eastern-Western cultural affiliation and personality are related to their perception of sport psychology and attitude towards consultation with a sport psychology practitioner. Two hundred and nineteen athletes from Western and Eastern cultures completed the Sport Psychology Attitudes-Revised form (SPA-R; Martin et al., 2002) and the NEO-Five Factor Inventory (NEO-FFI; Costa & McCrae, 1992). Multivariate analysis of covariance (MANCOVA) revealed that Western athletes had lesser stigma towards sport psychology consulting, greater personal openness, and lesser preference for a consultant of the same race or culture than Eastern athletes. Multiple linear regression analysis revealed that lower openness and conscientiousness predicted greater stigma towards sport psychology consulting; higher neuroticism, conscientiousness, and openness predicted greater confidence in sport psychology consulting; and lower openness predicted greater preference for working with a sport psychology consultant of the same race or culture. These findings may prove valuable to applied sport psychology practitioners, and aim to help them better understand the athletes and athletic population to whom they offer their services.

Keywords: sport psychology, attitudes, personality, cross-cultural
Attitudes towards sport psychology consulting in athletes: Understanding the role of personality and culture

Despite the widespread acknowledgement that mental factors play a crucial role in sporting success (Connaughton, Wadey, Hanton, & Jones, 2008; Gould & Maynard, 2009; Greenleaf, Gould, & Dieffenbach, 2001), there still exists degrees of resistance among athletes towards sport psychology consulting (Karageorghis & Terry, 2011; Kremer & Moran, 2012). It has been suggested by Ravizza (2001) that as a general rule of thumb, approximately one-third of athletes are not receptive to sport psychology consulting, one-third are indifferent, and only one-third are interested. Similarly, Green, Morgan and Manley (2012) found that even though most elite rugby league players agreed that sport psychology was important, many of them were reluctant to engage the help of a sport psychology consultant due to the fear of being judged by coaches and teammates. In view of the perceived resistance that exists towards sport psychology, Martin, Wrisberg, Beitel, and Lounsbury (1997) stated that research needed to be geared towards understanding the attitudes that athletes have towards sport psychology consulting, and investigate the factors that could potentially influence those attitudes. This line of enquiry would serve to inform how sport psychology consultants could make sport psychology more accessible and attractive to athletes, and also allow them to devise strategies to target athletes who may not be receptive to sport psychology (Martin et al., 1997).

Previous Literature on Sport Psychology Attitudes

In view of these observations, research has been conducted to determine the main factors that are involved in athletes’ attitudes towards sport psychology consulting (Martin, Kellmann, Lavallee, & Page, 2002). The first factor is stigma tolerance, which is the belief that athletes will be viewed negatively if they engage the help of a sport psychology consultant (Martin et al., 2002). This factor has a long history of support, with Ravizza
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(1988) stating that the negative connotation of sport psychology was the most significant barrier facing sport psychology consultants. The second factor is confidence in sport psychology consulting, which is the belief that sport psychology is actually helpful and will benefit the athletes who engage with the process (Martin et al., 2002). Pain and Harwood (2004) found that it is difficult for sport psychology consultants to quantify the impact of their services, and this could cause athletes to be skeptical as to whether sport psychology can truly help to improve their sporting performance. The third factor is personal openness, which is the willingness of athletes to engage in sport psychology consulting (Martin et al., 2002). Wrisberg, Simpson, Loberg, Withycombe, and Reed (2009) found that athletes who had perceived past sport psychology experiences to be effective were more open to future consultation, while the opposite was true for athletes who had negative past experiences. The fourth factor is cultural preference, which is the preference of athletes to work with a consultant who is from the same culture and background (Martin et al., 2002). Lubker, Visek, Watson, and Singpurwalla (2012) supported this assertion when they found that a consultant’s race was one of the factors that influenced an athlete’s attitude towards the consultant.

After identifying various components that were involved in athletes’ sport psychology attitudes, Martin, Zakrajsek, and Wrisberg (2012) created a framework known as the Multidimensional Model of Sport Psychology Service Provision (M2SP2), which sought to illustrate the process by which athletes’ attitudes towards sport psychology consulting are formed. In their model, they highlight various personal and situational factors that contribute to athletes’ receptivity towards sport psychology consulting. Firstly, there is a significant amount of evidence to suggest that males are less receptive to sport psychology consulting than females (Anderson, Hodge, Lavallee, & Martin, 2004; Martin, 2005; Martin et al., 1997; Martin, Lavallee, Kellmann, and Page, 2004; Wrisberg et al., 2009). It has been found that
male athletes are more likely to stigmatise sport psychology consulting, have less confidence in sport psychology consulting, have less personal openness towards sport psychology, and prefer working with a consultant of the same race or ethnicity than female athletes (Anderson et al., 2004; Martin, 2005; Martin et al., 1997, 2004). A common explanation given for this observation is that social norms and cultural stereotypes dictate that male athletes should be tough and masculine, and should not exhibit or disclose any emotional problems (Yambor & Connelly, 1991). The type of sport that athletes engage in has also been found to influence their attitudes towards sport psychology consulting. Martin (2005) found that athletes who played physical contact sports found sport psychology to be more stigmatising than non-contact sport athletes. The explanation given for this finding was that athletes who participated in physical contact sports are socialised to accept the pain and hurt that comes with the sport, and are not as willing to seek help as non-contact sport athletes (Martin, 2005; Vogel, Wade, & Hackler, 2007). There is also evidence to suggest that an athlete’s previous sport psychology experience can affect their subsequent attitudes towards sport psychology consulting (Anderson et al., 2004; Martin, 2005; Martin et al., 2004). It has also been found that effective past sport psychology consulting experiences were related to positive sport psychology attitudes in the athletes, while ineffective past experiences were related to negative sport psychology attitudes (Wrisberg et al., 2009).

Culture and ethnicity have also been found to be significantly related to athletes’ attitudes towards sport psychology consulting. In one study, Martin et al. (2004) sought to investigate the sport psychology attitudes of American, British, and German athletes. They found several differences between athletes from the three nations, with American athletes more likely to stigmatise sport psychology consulting than British and German athletes; and British athletes being more confident in sport psychology consulting, and identifying more with consultants of similar culture than American and German athletes. Similar studies were
conducted with athletes from New Zealand (Anderson et al., 2004) and Ireland (Lavallee, Jennings, Anderson, & Martin, 2005), and it was found that athletes from both countries had positive attitudes towards sport psychology, and were open to engaging in sport psychology consulting.

A notable trend in the body of literature reflects how the vast majority of research done on athletes’ sport psychology attitudes has been conducted in Western countries such as the United States, United Kingdom, Germany (Martin et al., 2004), New Zealand (Anderson et al., 2004), and Ireland (Lavallee et al., 2005); and there is very limited research that has been conducted in an Eastern context. This is a significant gap in literature, and several researchers (Anderson et al., 2004; Lavallee et al., 2005; Martin et al., 2004) have called for future research to explore the cultural differences that may exist between athletes from Eastern and Western cultures. One study that has been previously conducted in an Eastern context was by Naoi, Watson, Deaner, and Sato (2011), who found that Japanese athletes had a greater interest in receiving sport psychology help than American athletes, but were also less open to talking about personal issues, and preferred to work with a sport psychology consultant of the same race. However, one important limitation of the study was that it used a self-developed scale to measure sport psychology attitudes, and the scale did not have evidence for score validity or reliability demonstrated. It is worth noting here that the Sport Psychology Attitudes–Revised (SPA-R) questionnaire (Martin et al., 2002) has undergone more systematic evaluation of score validity and reliability.

At this juncture, we must highlight that even though previous researchers advocate comparisons between athletes from Eastern and Western cultures, this form of grouping strategy might in fact be too broad (Andersen, 1993). Therefore, the recommendation might be to narrow the comparison down to the main nationalities examined in this study (i.e., British vs Singaporean), in order to understand the fine nuances and unique characteristics
that might exist in those specific groups. This is in line with current research in cultural sport psychology (McGannon & Johnson, 2009; Ryba, Stambulova, Si, & Schinke, 2013; Schinke, McGannon, Parham, & Lane, 2012), which advocates the need to capture the complexity and context of each specific culture group, so as to gain an accurate view of that particular group.

**Relationships between Personality and Help-Seeking Attitudes**

Despite previous efforts to investigate athletes’ attitudes towards sport psychology consulting, one important factor that has yet to be explored is the personality of the athlete. Several researchers (Lavallee et al., 2005; Martin, 2005; Martin et al., 2004) have suggested that future research be conducted to explore how personality could affect sport psychology attitudes in athletes. While there has been a lack of research done in the area of sport psychology, there has been a significant amount of research done in counseling and help-seeking settings to suggest that personality could potentially affect sport psychology attitudes (Atik & Yalcin, 2011; Kakhnovets, 2011; Seekles et al., 2012). A review of literature reveals that the vast majority of studies in this area have utilized the Five Factor Model (FFM) as the personality measure of choice (Friedman, Veazie, Chapman, Manning, & Duberstein, 2013; Klockner & Hicks, 2008; Tsan & Day, 2007; etc.). The FFM stipulates that there are five main dimensions of personality known as the Big Five personality traits, which comprise of extraversion, neuroticism, agreeableness, conscientiousness, and openness (McCrae & John, 1992). Extraversion is characterised by outgoingness and sociability; neuroticism by emotional instability and mood swings; agreeableness by cooperation and prosocial tendencies; conscientiousness by organisation and detail-orientation; and openness by creativity and a willingness to try new things (McCrae & John, 1992). In past research, the Big Five personality traits have shown to be significantly related to counseling and help-seeking attitudes.
Individuals with high extraversion have been found to report more positive attitudes towards help-seeking (Amirkhan, Risinger, & Swickert, 1995; Atik & Yalcin, 2011; Kakhnovets, 2011), psychosocial support (Klockner & Hicks, 2008), and counseling (Nocita & Stiles, 1986; Tsan & Day, 2007). Researchers have proffered that extraverts are more comfortable talking to other people, and would feel more at ease with counseling than introverts (Atik & Yalcin, 2011; Kakhnovets, 2011). Individuals with high neuroticism have also been found to possess better attitudes towards help-seeking (Kakhnovets, 2011), counseling (Seekles et al., 2012), healthcare use (Friedman et al., 2013), and mental health treatment utilization (Hopwood et al., 2008). A common explanation given here is that individuals who attain a low score on neuroticism are usually calm and even-tempered, and would not require as much emotional support as those who are highly neurotic (Kakhnovets, 2011; Seekles et al., 2012). Individuals with high agreeableness have been shown to possess more positive attitudes towards help-seeking (Atik & Yalcin, 2011; Kakhnovets, 2011), and seeking information about mental care (Seekles et al., 2012). Kakhnovets (2011) notes that individuals low in agreeableness are often skeptical about the benefits of counseling, and are less likely to want to receive help from others. Individuals with high conscientiousness have been found to have poorer attitudes towards seeking practical support and skills training, with the explanation that such individuals are self-disciplined and task-oriented, and may have lesser need to seek help from others (Seekles et al., 2012). Finally, individuals with higher openness were found to have more positive attitudes towards help-seeking (Atik & Yalcin, 2011; Kakhnovets, 2011; Komiya, Good, & Sherrod, 2000) and counseling (Bathje, Kim, Rau, Bassiouny, & Kim, 2014; Seekles et al., 2012). Individuals with high openness have been hypothesised to be willing to try new things and explore whether counseling is able to help them improve their situation (Atik & Yalcin, 2011; Kakhnovets, 2011).

The Current Study: Aims and Hypotheses
Given the aforementioned work in this area of sport psychology, and relevant literature in counselling psychology, the objective of the present study was to extend this field of research in the following ways. Firstly, we aimed to investigate whether and how differences existed in the sport psychology attitudes of athletes from Western and Eastern cultures. Although past research is limited in this area to a single study (Naoi et al., 2011), we hypothesised that Eastern athletes would prefer working with consultants of the same culture, have less openness towards sport psychology consulting, but have more confidence in sport psychology consulting, and less stigma towards the discipline than Western athletes. In addition, we also sought to investigate how athletes might differ in terms of their gender and type of sport. Based on previous literature, we hypothesised that males will have less positive attitudes towards sport psychology than females (Anderson et al., 2004; Martin, 2005; Martin et al., 2004), and that contact sport athletes will have less positive attitudes towards sport psychology than non-contact sport athletes (Martin, 2005).

The other aim of this study was to investigate how athletes’ Big Five personality traits predicted their attitudes towards sport psychology consulting. Such findings would enable applied sport psychology practitioners to better understand how athletes may respond to their initial services, and help them to better cater their services (e.g., marketing, communication). Based on previous research conducted in counseling and help-seeking settings (Atik & Yalcin, 2011; Kakhnovets, 2011; Seekles et al., 2012), it was hypothesised that high extraversion, neuroticism, agreeableness, openness, and low conscientiousness would all predict more positive attitudes towards sport psychology.

**Method**

**Measures**

SPA-R. The Sport Psychology Attitudes-Revised (SPA-R; Martin et al., 2002) is a 25-item questionnaire designed to measure attitudes towards sport psychology consulting.
The questionnaire comprises of four scales: (a) stigma tolerance; (b) confidence in sport psychology consulting; (c) personal openness; (d) cultural preference. Respondents are required to report their attitudes and beliefs about sport psychology on a 7-point Likert scale ranging from “strongly disagree” to “strongly agree”. A higher score in stigma tolerance indicates that the individual has more stigma towards sport psychology consulting; a higher score in confidence in sport psychology consulting indicates that the individual is more confident in the benefits that sport psychology might provide; a higher score in personal openness indicates that athletes are less open to seeking sport psychology consulting; and a higher score in culture preference indicates that the individual prefers working with a sport psychology consultant of the same race or culture. The SPA-R has shown to be a reliable measure, with coefficient alphas ranging from 0.61 to 0.84 for all scales (Martin et al., 2002).

**NEO-FFI.** The NEO-Five Factor Inventory (NEO-FFI; Costa & McCrae, 1992) is a 60-item questionnaire used to assess the Big Five personality traits. The questionnaire comprises of five scales that represent each of the Big Five personality traits: (a) extraversion; (b) neuroticism; (c) agreeableness; (d) conscientiousness; (e) openness. Respondents are required to answer personality-related questions on a 5-point Likert scale ranging from “strongly disagree” to “strongly agree”. A higher score for extraversion indicates that the individual is more outgoing and sociable; a higher score for neuroticism indicates that the individual is more prone to mood swings and emotional instability; a higher score for agreeableness indicates that the individual is more trusting and cooperative; a higher score for conscientiousness indicates that the individual is more self-disciplined and task oriented; and a higher score in openness indicates that the individual is more creative and imaginative. The NEO-FFI has shown to have construct validity, test-retest stability, with internal consistency ranging from 0.68 to 0.86 (Costa & McCrae, 1992).

**Procedures**
After receiving ethical approval from the institutional review board, pilot tests were conducted with a small sample of athletes to evaluate the clarity and content of the online Google Docs questionnaire. All of the athletes involved in the pilot tests gave feedback that the online questionnaire was appropriate and suitable. Subsequently, the sport teams of various universities, sport clubs, and sport institutes in the United Kingdom and Singapore were contacted through their administrators and asked to publicise the study to their athletes. Athletes who were willing to participate in the study were given a link to the online questionnaire. According to online informed consent procedures, participants were told of the purpose and details of the study through a participant information sheet. Participants were informed that all responses would be kept strictly confidential and would only be used for the purposes of the study. Having consented to participate in the study, participants filled in relevant demographic information, including their age, gender, ethnicity, nationality, education level, sport, level of sport participation, and number of years competing in the sport. They were also asked if they had previous experience of working with a sport psychology consultant, and were asked to evaluate whether they perceived their previous sport psychology experience to be effective, and were satisfied with the services rendered. Participants then proceeded to complete the SPA-R and NEO-FFI.

Data Analysis

All data analysis was conducted using SPSS 20.0. The first part of the data analysis involved a multivariate analysis of covariance (MANCOVA) with the participants’ four SPA-R scale scores as dependent variables, and their previous experience with a sport psychology consultant as the covariate. Prior to running the MANCOVA, we tested for the assumptions of the covariate. This protocol falls in line with research by Wrisberg et al. (2009), who suggested that the effectiveness of previous sport psychology experience would affect sport psychology attitudes. In accordance with past research (Martin, 2005; Martin et al., 2004),
the MANCOVA sought to determine if the participants’ sport psychology attitudes could be
differentiated by culture (Western and Eastern), gender (male and female), type of sport
(contact and non-contact), or any interaction between these factors.

The second part of the data analysis involved a series of multiple linear regression
analyses that were conducted for each of the four variables of the SPA-R. Due to the lack of
prior theory regarding the relationship between personality and sport psychology attitudes,
the forced entry method was chosen for the multiple regression analyses, where all the
predictor variables (i.e., the Big Five personality traits) were inputted into the regression
equation simultaneously. The results were then analysed to determine how the Big Five
personality traits predicted various attitudes towards sport psychology consulting in the
athlete sample population.

Results

Participants

A total of 219 athletes ($n = 127$ males and $92$ females) participated this study. All
athletes were aged 18 and over ($M = 22.39 \ SD = 4.74$), and were currently competing at
school, club, county, or national level. A very wide variety of sports were represented, with
126 participants engaging in physical contact sports, and 93 participants engaging in non-
contact sports. The definitions stated by Coakley (2001) were used for this study, with
physical contact sports (e.g., rugby, football, judo) being characterised by bodily contact,
intimidation, and physical injury; and non-contact sports (e.g., rowing, archery, sailing) being
characterised by lack of physical contact or intimidation.

A total of 108 participants represented Western cultures ($n = 55$ males and $53$
females), and 111 participants represented Eastern cultures ($n = 72$ males and $39$ females).
The participants from Western cultures were predominantly of British nationality ($n = 103$),
and most identified themselves ethnically as White ($n = 93$). The participants from Eastern
cultures were predominantly of Singaporean nationality ($n = 103$), and most identified themselves ethnically as Chinese ($n = 97$). More information about the demographics of the participants from both Western and Eastern cultures can be found in Table 1.

[INSERT TABLE 1 HERE]

**Descriptive Statistics and Scale Reliabilities**

The basic descriptive statistics (means and standard deviations) for the SPA-R and NEO-FFI are shown in Table 2. For the SPA-R scores, the athletes had the highest scores for personal openness ($M = 4.78$, $SD = 0.85$), and the lowest scores for stigma tolerance ($M = 2.57$, $SD = 0.95$). As for the NEO-FFI scores, the athletes scoring highest in extraversion ($M = 3.56$, $SD = 0.53$), and lowest in neuroticism ($M = 2.83$, $SD = 0.69$).

Estimates of internal consistency reliability (Cronbach’s $\alpha$) ranged from 0.52 to 0.87 for the SPA-R, and 0.71 to 0.84 for the NEO-FFI.

[INSERT TABLE 2 HERE]

**MANCOVA**

**Preliminary analysis.** Based on past evidence (Wrisberg et al., 2009) stating that the effectiveness of previous sport psychology experience was associated with attitudes towards sport psychology consulting, a one-way multivariate analysis of variance (MANOVA) was conducted with effectiveness of past sport psychology experience as the independent variable and the four scales of the SPA-R as the dependent variables. The MANOVA showed significant differences in attitudes towards sport psychology according to the different past experiences of sport psychology consulting, Wilks’ Lambda = .90, $F(8, 426) = 3.01$, $p < .01$, $\eta^2 = .05$. Due to the significant relationship that was found between past sport psychology experience and sport psychology attitudes, the effectiveness of past sport psychology experience was used as a covariate in the main analysis.
Main analysis. A multivariate analysis of covariance (MANCOVA) was conducted using the four SPA-R scale scores as dependent variables and the effectiveness of the athletes’ past sport psychology experience as the covariate, to investigate if athletes’ attitudes towards sport psychology consulting could be differentiated by culture (Western and Eastern), gender (male and female), type of sport (contact and non-contact), or any interaction of these factors.

The results of the MANCOVA indicated a significant main effect for culture, Wilks’ Lambda = .81, \( F(4,207) = 12.56, p < .001, \eta^2 = .20 \). Follow-up univariate analyses revealed that stigma tolerance \( [F(1,210) = 17.89, p < .001, \eta^2 = .08] \), personal openness \( [F(1,210) = 15.96, p < .001, \eta^2 = .07] \), and cultural preference \( [F(1,210) = 25.87, p < .001, \eta^2 = .11] \) were the dependent variables that were significant (see Figure 1). Firstly, the responses of Western athletes \((M = 2.33, SD = 0.92)\) indicated that they were less likely to stigmatise sport psychology than Eastern athletes \((M = 2.81, SD = .92)\). Secondly, Western athletes \((M = 4.52, SD = 0.78)\) had more personal openness to sport psychology than Eastern athletes \((M = 5.04, SD = 0.84)\). Finally, Western athletes \((M = 2.88, SD = 0.98)\) did not have as much preference for working with a sport psychology consultant of the same race and culture as Eastern athletes \((M = 3.62, SD = 1.10)\).

There was also a significant three-way interaction effect found for culture, gender, and type of sport, Wilks’ Lambda = .92, \( F(4,207) = 4.69, p < .01, \eta^2 = .08 \). The univariate analyses revealed that stigma tolerance \( [F(1,210) = 8.44, p < .01, \eta^2 = .04] \) and personal openness \( [F(1,210) = 6.41, p < .05, \eta^2 = .03] \) were the dependent variables that were significant. A two-way univariate analysis was conducted for each level of culture, and a significant interaction between gender and type of sport was found for Eastern athletes, but not for Western athletes. Firstly, Eastern males who played contact sports \((M = 2.80, SD = .88)\)
0.99) had lesser stigma towards sport psychology consulting than Eastern females who
played contact sports ($M = 3.44, SD = 0.93$); however, there was no significant difference in
stigma tolerance between Eastern males and females who played non-contact sports ($M =
2.76, SD = 0.82$, and $M = 2.55, SD = 0.78$, respectively). Secondly, Eastern male athletes who
played non-contact sports ($M = 4.66, SD = 1.02$) had greater personal openness to sport
psychology than Eastern female athletes who played non-contact sports ($M = 5.06, SD =
0.60$); on the other hand, Eastern male athletes who played contact sports ($M = 5.27, SD =
0.78$) had lesser personal openness than Eastern female athletes who played contact sports ($M
= 4.82, SD = 0.86$).

There were no main effects found for gender, Wilks’ Lambda = 0.96, $F(4, 207) = 1.92,
p > .05, \eta^2 = .04$; type of sport, Wilks’ Lambda = 0.96, $F(4, 207) = 1.94, p > .05, \eta^2 = .04$; nor
were there any other interaction effects found.

**Multiple Linear Regression Analysis**

An inspection of the variance inflation factor (VIF) among the independent variables
did not reveal issues of multicollinearity (VIF ranged from 1.01 to 1.24).

[INSERT TABLE 3 HERE]

**Stigma tolerance.** The multiple linear regression analysis (see Table 3 for all multiple
regression analysis results) showed that the model significantly predicted stigma tolerance for
the athlete sample [$F(5, 213) = 8.62, p < .001, R^2 = .17, f^2 = .20$]. This indicates that 17% of
the variance in stigma tolerance can be explained by personality factors. Both
conscientiousness ($\beta = -.30, t = -4.51, p < .001$) and openness ($\beta = -.24, t = -3.83, p < .001$)
were found to be significant predictors of stigma tolerance. The results indicated that higher
levels of conscientiousness and openness predicted lesser stigma towards sport psychology
consulting.
Confidence in sport psychology consulting. The multiple linear regression analysis showed that the model significantly predicted confidence in sport psychology consulting for the athlete sample \[ F(5, 213) = 5.45, p < .001, R^2 = .11, f^2 = .12 \]. This indicates that 11% of the variance in confidence in sport psychology consulting can be explained by personality factors. Neuroticism (\( \beta = .26, t = 3.72, p < .001 \)), conscientiousness (\( \beta = .23, t = 3.36, p < .01 \)), and openness (\( \beta = .15, t = 2.37, p < .05 \)) were found to be significant predictors of confidence in sport psychology consulting. The results indicated that higher levels of neuroticism, conscientiousness, and openness predicted greater confidence in sport psychology consulting.

Personal openness. The multiple linear regression analysis showed that the model did not significantly predict personal openness in the athlete sample \[ F(5, 213) = 0.76, p > .05, R^2 = .02, f^2 = .02 \]. This indicates that 2% of the variance in personal openness can be explained by personality factors. Therefore, the results suggest that none of the Big Five personality traits predicted personal openness in the athlete sample population.

Cultural preference. The multiple linear regression analysis showed that the model significantly predicted cultural preference for the athlete sample \[ F(5, 213) = 3.18, p < .01, R^2 = .07, f^2 = .08 \]. This indicates that 7% of the variance in cultural preference can be explained by personality factors. Only openness (\( \beta = -.23, t = -3.45, p < .01 \)) was found to be a significant predictor of cultural preference. The results showed that lower levels of openness predicted greater athlete preference for working with a sport psychology consultant of the same race or culture.

Discussion
The first aim of the study was to investigate and compare the sport psychology attitudes of athletes from Western and Eastern cultures. Our tentative hypotheses were that Eastern athletes would prefer working with consultants of the same culture, have less
openness towards sport psychology consulting, but have more confidence in sport psychology consulting, and lower stigma perceptions than Western athletes. The findings of the study demonstrated only partial support for these hypotheses. On one hand, Eastern athletes preferred working with consultants of the same culture and had less openness towards sport psychology consulting, which was in line with previous literature. However, they reported greater stigma towards sport psychology consulting than their Western counterparts and were similar in terms of their confidence in sport psychology consulting—a finding that contrasts with previous research by Naoi et al. (2011). A possible reason for the difference in findings is that the majority of the Western athletes in the current study were British, while all of the Western athletes surveyed in the Naoi et al. (2011) study were American. In past research, Martin et al. (2004) found that American athletes had greater stigma towards sport psychology services and lesser confidence in such services than British athletes. Therefore, it is possible that the disparity in findings between the two studies could be due to sub-cultural differences between British and American athletes with respect to sport psychology attitudes.

In terms of explaining why Eastern athletes had less positive attitudes towards sport psychology consulting compared to Western athletes, Araki and Balasekaran (2009) stated that sport psychology development in Singapore is still in its infancy compared to a well-developed sporting nation like UK. Therefore, there is not much education regarding the benefits of sport psychology amongst Singaporean athletes, which could possibly result in them not being as open towards sport psychology consulting compared to their British counterparts. Terry (2009) also added that Asian athletes are often reluctant to discuss limitations or worries with a sport psychology consultant, and that this usually persists until rapport and trust is developed. He also mentioned that Chinese athletes might not be open to seeing a sport psychology consultant as it might be construed as a shameful act and might
bring dishonour to their family or cultural group. This would also help to explain why the
Chinese Singaporean athletes in this study were less open to engaging in sport psychology
consulting compared to White British athletes. In addition, Araki and Balasekaran (2009)
also stated that Singaporean athletes are highly submissive, and are not comfortable with
voicing their opinion or making decisions on their own. As such, they might be more
comfortable working with a local sport psychology consultant who understands their specific
communication style, as compared to a foreign consultant who might not understand their
unique mannerisms.

Another notable observation was that while Western athletes had greater openness to
sport psychology consulting than Eastern athletes, their mean score obtained of 4.52 was still
relatively high. This suggests that while Western athletes may be more open towards sport
psychology consulting than Eastern athletes, the mean score still reflects a certain degree of
reluctance to try sport psychology consulting. This is in line with previous research
conducted in Western contexts (Green et al., 2012; Pain and Harwood, 2004) which
suggested that some Western athletes might still not be open to engaging in sport psychology
consulting.

There were also no significant main effects observed for gender or type of sport. This
lies contrary to previous literature (Anderson et al., 2004; Martin, 2005; Martin et al., 2004;
Wrisberg et al., 2009), which suggested that gender and type of sport both have an influence
on athletes’ sport psychology attitudes. However, there was a significant three-way
interaction effect observed for culture, gender and type of sport. This is in line with previous
literature relating to sub-culture in sport psychology (Coulter, Mallett, & Singer, 2016;
Schinke & McGannon, 2014), where the authors advocate the need to critically consider the
athlete’s specific background and context in order to fully appreciate their attitudes towards
sport psychology. This three-way interaction effect reflects the complexity that exists within
each individual athlete, and suggests that athletes cannot be stereotyped purely based on broad categories. For example, Eastern males who played contact sports were found to have less stigma towards sport psychology consulting, but yet also had less personal openness towards it as compared to Eastern females who played contact sports. However, in terms of non-contact sport athletes, it was Eastern males who had greater personal openness instead of Eastern females.

**Personality and Sport Psychology Attitudes**

The second aim of this study was to investigate whether athletes’ Big Five personality traits would predict their attitudes towards sport psychology consulting (i.e., stigma tolerance, confidence in sport psychology consulting, personal openness, and cultural preference). The hypothesis was that high extraversion, neuroticism, agreeableness, openness, and low conscientiousness would predict more positive attitudes towards sport psychology consulting. Once again, the findings of this study showed mixed support for the hypothesis. On one hand, certain personality traits such as openness and neuroticism predicted positive attitudes towards sport psychology consulting; but on the other hand, traits such as extraversion and agreeableness did not show any significant relation to sport psychology attitudes. Early conjectures based on past research (Atik & Yalcin, 2011; Kakhnovets, 2011) suggest that individuals with higher openness may be more willing to try new things and explore whether sport psychology can help them; and those with higher neuroticism may be less emotionally stable and might have more impetus for seeking out sport psychology help. However, further research needs to be conducted to fully ascertain the reasons behind the findings.

There was also a contrary finding for the personality trait of conscientiousness, whereby high conscientiousness was found to predict lower levels of stigma towards sport psychology consulting, as well as greater confidence in sport psychology consulting. This is in contrast with previous research by Seekles et al. (2012), who found that high
Conscientiousness was associated with lower acceptance of psychological support services. However, it must be noted that the study by Seekles et al. (2012) investigated clinically depressed patients, and it is possible that more mentally healthy athletes who participated in this study would have a very different response towards seeking psychological help from a sport-specific professional. Since individuals with high conscientiousness are more organised and detail-orientated (McCrae & John, 1992), it is possible that they might have done some background research to find out more about the benefits of sport psychology. This would have equipped them with a greater understanding of how sport psychology can help them, and thus increase their acceptance of sport psychology services.

The results also showed that none of the Big Five personality traits predicted personal openness in athletes. This non-significant finding might appear to be rather surprising due to the similarity in definitions of openness used in the SPA-R and the Big Five model. In the SPA-R, the construct of personal openness is characterised by a willingness to engage in sport psychology consultation (Martin et al., 2002); while in the Big Five model, the personality trait of openness is described as a willingness to try new things (McCrae & John, 1992). More research needs to be conducted to fully examine how these two constructs might be related to each other.

Lastly, there were also new insights into how athletes’ personality could affect their cultural preference. It was found that higher levels of openness predicted lesser preference for working with a sport psychology consultant of the same race or culture. This is in line with previous research by Flynn (2005), who found that individuals with higher openness were less prejudiced towards people of other races as they placed greater importance in obtaining novel information from new sources. Therefore, such individuals would be more willing to work with a sport psychology consultant of a different culture so that they might gain new perspectives and ideas to improve their sporting performance.
Practical Implications

The findings of this study offer a number of implications and considerations for consultants with respect to making their service provision more attractive to a wider range of athletes. In terms of working with athletes from Eastern and Western cultures, there appear to be several significant differences in their attitudes towards sport psychology consulting. On a whole, Eastern athletes appear to stigmatise sport psychology consulting more, be less open to engaging in sport psychology consulting, and have greater preference for working with a consultant of the same race or culture than Western athletes. This is explained by Shea and Yeh (2008), who suggested that Eastern individuals might find seeking psychological help to be in conflict with their cultural belief system, due to the strong Eastern emphasis on restraining one’s feelings and enduring pain for the sake of social harmony. Therefore, sport psychology consultants need to do more to reach out and explain their services to Eastern athletes, so as to make sport psychology more accessible and attractive to them. Sport psychology consultants also need to have greater sensitivity towards how their athletes might manifest collectivism or individualism in accordance to their cultural background. This will help them to better understand the level of resistance that their athletes might have towards sport psychology, and enable them to adjust their service delivery approach accordingly.

Finally, not all Eastern athletes possess the same attitudes towards sport psychology consulting, but their attitudes can vary as function of their gender and sport type. For Eastern female athletes who play contact sports, sport psychology consultants may need to spend more time addressing the stigmas that they might have towards sport psychology consulting. As for Eastern male athletes who play contact sports, they may need to put extra effort into building rapport and gaining entry with such athletes before they are willing to accept sport psychology services.
In terms of gaining entry with their athletes, sport psychology consultants may consider assessment of the Big Five personality traits of their athletes before starting work with them. After benchmarking their athletes’ personality scores against established norms, the consultant may be able to interpret the findings to facilitate better acceptance and effectiveness in their work with the athlete. Based on the findings of this study, sport psychology consultants should seek to debunk certain stigma associated with sport psychology in athletes who have low conscientiousness and low openness. They should also endeavour to explain the potential benefits of sport psychology to athletes with low conscientiousness, openness, and neuroticism. This will help to instill a greater amount of confidence towards sport psychology consulting in such athletes. Lastly, when working with athletes of a difference race or culture, they should be aware that athletes with low openness might have certain prejudices and biases towards the consultant. Thus, they should make an extra effort to reach out to such athletes in the process of sensitive rapport building.

The findings of this study also have various implications for the training of young sport psychology practitioners. Improved education for young practitioners in the area of personality and its assessment may be valuable in terms enhancing tools for marketing, service promotion, and overall service delivery.

Limitations and Future Directions

An acknowledged limitation of this study is that the participants surveyed were not a random representation of athletes from Eastern and Western cultures. As mentioned earlier, the athletes from Eastern cultures were predominantly of Singaporean nationality (93%), and the participants from Western cultures were predominantly of British nationality (95%). Even though Singapore has strong roots in Eastern culture and is deeply entrenched in Asian and Confucian values (Araki & Balasekaran, 2009), it has also been identified as a very cosmopolitan and globalised country, where Western and Eastern values both feature very
prominently in society (Xinyi, Smith, & Adegbola, 2004). Therefore, future research should seek to compare Singaporean athletes with athletes from more traditional Eastern nations (e.g., China, Japan, Korea), to identify how athletes in those countries might differ in terms of their sport psychology attitudes. As for athletes of British nationality, they typically represent the ethnocentric white perspective that has dominated sport psychology research (Kontos & Breland-Noble, 2002). However, previous literature has indicated that there still exist various differences between Western athletes of different nationalities. For example, British athletes were found to differ from American or German athletes in terms of stigma tolerance, confidence in sport psychology consulting, and cultural preference (Martin et al., 2004). Therefore, future research should also be conducted with athletes of other Western nationalities in order to fully understand the fine nuances that define their attitudes towards sport psychology consulting.

Another key limitation was that most of the athletes surveyed in this study were highly educated (95% attended college, university or higher), which might threaten the applicability of the results to less highly educated athletes. Although the results of this study provide useful insight into how personality and culture affect the sport psychology attitudes of athletes, future research needs to be conducted to identify why certain personality traits might affect specific attitudes. Qualitative analysis should be conducted with athletes of various personality types to uncover their thoughts and attitudes towards sport psychology consulting. This would enable an additional, richer understanding of how various personality traits might affect sport psychology attitudes.

Conclusion

In summary, this study found that athletes from Eastern and Western cultures differed significantly in terms of their attitudes towards sport psychology consulting. Western athletes had lesser stigma towards sport psychology consulting, greater personal openness, and lesser
preference for a consultant of the same race or culture than Eastern athletes. The study also found that certain personality traits predicted athletes’ attitudes towards sport psychology consulting. High conscientiousness and openness predicted lesser stigma towards sport psychology consulting; high conscientiousness, openness, and neuroticism predicted greater confidence in sport psychology consulting; and finally, low openness predicted greater preference for a consultant of the same race or culture. In offering fresh insights into how culture and personality affect athletes’ attitudes towards sport psychology consulting, we hope that this study triggers further investigation into the cultural and individual factors that matter when optimising engagement in sport psychology services.
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### Table 1
Demographic information of Western and Eastern culture participants

<table>
<thead>
<tr>
<th>Gender</th>
<th>Western (n = 108)</th>
<th>Eastern (n = 111)</th>
<th>Combined (n = 219)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>55</td>
<td>72</td>
<td>127</td>
</tr>
<tr>
<td>Female</td>
<td>53</td>
<td>39</td>
<td>92</td>
</tr>
<tr>
<td>Age</td>
<td>21.96 (5.66)</td>
<td>22.81 (3.60)</td>
<td>22.39 (4.74)</td>
</tr>
<tr>
<td>Years of Sport Experience</td>
<td>8.93 (5.73)</td>
<td>6.58 (4.98)</td>
<td>7.74 (5.48)</td>
</tr>
<tr>
<td>Education Level</td>
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<td></td>
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<td>High School or Lower</td>
<td>2</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>College/Undergraduate</td>
<td>96</td>
<td>92</td>
<td>188</td>
</tr>
<tr>
<td>Postgraduate</td>
<td>10</td>
<td>9</td>
<td>19</td>
</tr>
<tr>
<td>Level of Sport Participation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>20</td>
<td>48</td>
<td>68</td>
</tr>
<tr>
<td>Club</td>
<td>43</td>
<td>41</td>
<td>84</td>
</tr>
<tr>
<td>County</td>
<td>22</td>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>National</td>
<td>23</td>
<td>19</td>
<td>42</td>
</tr>
<tr>
<td>Type of Sport</td>
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<td></td>
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</tr>
<tr>
<td>Contact</td>
<td>65</td>
<td>61</td>
<td>126</td>
</tr>
<tr>
<td>Non-Contact</td>
<td>43</td>
<td>50</td>
<td>93</td>
</tr>
<tr>
<td>Previous Sport Psychology Experience</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>90</td>
<td>98</td>
<td>188</td>
</tr>
<tr>
<td>Yes (Effective)</td>
<td>12</td>
<td>10</td>
<td>22</td>
</tr>
<tr>
<td>Yes (Ineffective)</td>
<td>6</td>
<td>3</td>
<td>9</td>
</tr>
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Table 2
Means and standard deviations for Western and Eastern culture participants

<table>
<thead>
<tr>
<th></th>
<th>Western ((n = 108))</th>
<th>Eastern ((n = 111))</th>
<th>Combined ((n = 219))</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Personality</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extraversion</td>
<td>3.70 (0.49)</td>
<td>3.42 (0.53)</td>
<td>3.56 (0.53)</td>
</tr>
<tr>
<td>Neuroticism</td>
<td>2.81 (0.73)</td>
<td>2.86 (0.64)</td>
<td>2.83 (0.69)</td>
</tr>
<tr>
<td>Agreeableness</td>
<td>3.46 (0.48)</td>
<td>3.53 (0.41)</td>
<td>3.50 (0.45)</td>
</tr>
<tr>
<td>Conscientiousness</td>
<td>3.76 (0.52)</td>
<td>3.47 (0.51)</td>
<td>3.61 (0.54)</td>
</tr>
<tr>
<td>Openness</td>
<td>3.22 (0.50)</td>
<td>3.26 (0.52)</td>
<td>3.24 (0.51)</td>
</tr>
<tr>
<td><strong>Sport Psychology Attitudes</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stigma Tolerance</td>
<td>2.33 (0.92)</td>
<td>2.81 (0.92)</td>
<td>2.57 (0.95)</td>
</tr>
<tr>
<td>Confidence in Sport Psychology</td>
<td>4.55 (1.04)</td>
<td>4.68 (0.96)</td>
<td>4.61 (1.00)</td>
</tr>
<tr>
<td>Personal Openness</td>
<td>4.52 (0.78)</td>
<td>5.04 (0.84)</td>
<td>4.78 (0.85)</td>
</tr>
<tr>
<td>Cultural Preference</td>
<td>2.88 (0.98)</td>
<td>3.62 (1.10)</td>
<td>3.25 (1.10)</td>
</tr>
</tbody>
</table>
Table 3
Multiple regression analysis results

<table>
<thead>
<tr>
<th></th>
<th>Stigma Tolerance</th>
<th>Confidence in Sport Psychology</th>
<th>Personal Openness</th>
<th>Cultural Preference</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>β</td>
<td>B</td>
<td>SE B</td>
<td>β</td>
</tr>
<tr>
<td>Extraversion</td>
<td>-0.10</td>
<td>0.27</td>
<td>0.14</td>
<td>-0.09</td>
</tr>
<tr>
<td>Neuroticism</td>
<td>0.11</td>
<td>0.38</td>
<td>0.10</td>
<td>0.12</td>
</tr>
<tr>
<td>Agreeableness</td>
<td>0.01</td>
<td>-0.03</td>
<td>0.15</td>
<td>-0.01</td>
</tr>
<tr>
<td>Conscientiousness</td>
<td>-0.52</td>
<td>0.42</td>
<td>0.13</td>
<td>0.23***</td>
</tr>
<tr>
<td>Openness</td>
<td>-0.45</td>
<td>0.30</td>
<td>0.13</td>
<td>0.15*</td>
</tr>
<tr>
<td>$R^2$</td>
<td>.17</td>
<td>.11</td>
<td></td>
<td>.02</td>
</tr>
<tr>
<td>F</td>
<td>5.45***</td>
<td>0.76</td>
<td></td>
<td>3.18**</td>
</tr>
</tbody>
</table>

Note: * p < .05, ** p < .01, *** p < .001
Figure 1. Mean scores of SPA-R subscales as a function of culture.