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8	Emotional Experiences in Youth Tennis
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26 Abstract

Objectives: To explore adolescents' emotional experiences in competitive sport. Specifically, 27 this study sought to identify, 1) The emotions adolescents' experience at tennis tournaments, 2) 28 29 The precursors of the emotions they experience, and 3) How adolescents attempt to cope with these emotions. 30 Design: Case-study 31 Method: Four adolescent tennis players competed in four or five tennis matches under the 32 observation of a researcher. Immediately following each match, participants completed a post-33 34 match review sheet and a semi-structured interview. A further semi-structured interview was completed at the end of the tournament. Review sheets, notes from match observations, and 35 video recordings of matches were used to stimulate discussions during final interviews. All data 36 37 were analyzed following the procedures outlined by Miles and Huberman (1994). *Results*: Participants cited numerous positive and negatively valenced emotions during matches 38 and tournaments. Participants' emotions seemed to be broadly influenced by their perceptions of 39 performance and outcomes, as well as their opponent's behavior and player's perceptions of 40 their own behavior. Participants described various strategies to cope with these emotions, such 41 42 as controlling breathing rate, focusing on positive thoughts, and individualized routines. Further, if participants perceived them to be facilitative, negative emotions could be beneficial for 43 44 performance. 45 Conclusion: This study has provided original insights into the complexity of adolescent athletes' emotional experiences at competitions and highlighted the critical need for further in-depth 46 examinations of youth sport to fully comprehend the experiences of young people. Most notably, 47 48 the findings highlight the necessity of considering the impact of both intra- and interpersonal influences on adolescents' emotional experiences, while also accounting for temporal changes. 49

Key words: youth sport, emotion, coping, adolescents, tennis

Emotions are a central component of youth sport participation (Crocker, Hoar, McDonough, Kowalski, & Niefer, 2004). One of the most common emotions experienced when participating in sport is enjoyment and feelings of enjoyment have been identified as one of the main reasons children and adolescents play sport (Weiss, Kimmel, & Smith, 2001). When children and adolescents enjoy their sport experience they demonstrate higher levels, and more positive types, of motivation, increased sport commitment, and sustain participation for longer (Fraser-Thomas & Côté, 2009; McCarthy, Jones, & Clark-Carter, 2008). However, participation in sport is not always enjoyable (McCarthy & Jones, 2007). Sport involvement can also result in anxiety, which can have negative consequences for young athlete's participation, health, and performance (Crocker et al., 2004). For example, high-levels of anxiety have been associated with avoidance of sport, reduced sport enjoyment, burnout, sleep disruption, and dropout or discontinuation (see Mellalieu, Hanton, & Fletcher, 2006).

In addition to experiencing anxiety and enjoyment, adolescents are likely to experience a range of other emotions when participating in sport (Nicholls, Hemmings, & Clough, 2010). For instance, Crocker and colleagues (2004) described different emotional states that could be experienced in youth sport ranging from happiness due to sporting success, to sadness from experiencing defeat, and anxiety as a result of fearing competition. Given the range of emotions associated with youth sport, as well as a recognition that emotions can influence performance levels, it is somewhat surprising that limited consideration has been given to unpacking the various emotions adolescents might experience when participating in sport (McCarthy & Jones, 2007; Nicholls et al., 2010). It has been suggested that, as well as focusing on enhancing sporting performances, sport psychologists should consider working with athletes to maximize positive emotion and motivation in sport (McCarthy et al., 2008). To fully understand experiences in youth sport,

and in turn, be able to help youth athletes cope with positive and negative experiences, it is pertinent to explore the range of emotions adolescents experience when they are competing.

Youth sport competitions were selected as the focus of this study because they are an integral part of youth sport but maintain a difficult position in the overall experience.

Through competition young athletes not only test their physical skills but also have an opportunity to develop psychological and social characteristics (Cumming, Smoll, Smith, & Grossbard, 2007). Also, for those individuals who seek to excel in sport, competition during youth provides them with an opportunity to learn and develop skills that will be beneficial in the future (cf. MacNamara, Collins, & Button, 2010). However, participation in competition is one of the main stressors for youth athletes and can result in feelings of pressure and anxiety (Nicholls, Holt, Polman, & James, 2005; Nicholls et al., 2010). By developing an understanding of adolescents' experiences in competition it is hoped that practitioners can work to prepare adolescents to manage different emotions, allowing them to gain the benefits of participating in competition, while limiting negative outcomes.

Although there are various theories and frameworks that can utilized to study emotions in sport, much of the research that has been conducted with adult populations (e.g., Martinent & Ferrand, 2009; Neil, Hanton, Mellalieu, & Fletcher, 2011; Uphill & Jones, 2007) has used Lazarus' (1991) Cognitive-Motivational-Relational Theory (CMRT). Lazarus (1991) stated that emotions are a by-product of personality and environment combined with cognitive, motivational, and relational features (Lazarus, 1991). Emotions are relational because they always encompass a person-environment relationship involving harm and/or benefit (Lazarus, 2000). Lazarus (1991) proposed that there were 15 discrete emotions, each of which involved a distinct core relational theme summarizing the transactions within the person-environment relationship for that emotion. CMRT further suggests that emotions are reactions to the status of goals in adaptational encounters. Therefore, motivation accounts for

an understanding of what makes adaptational encounters personally relevant and a source of harm or benefit to be developed (Lazarus, 1991). Finally, the cognitive aspect of the theory refers to knowledge and appraisal of occurrences during adaptational encounters. Knowledge comprises situational and generalized beliefs about how things work, and appraisal is an evaluation of the personal significance of an encounter with the environment (Lazarus, 1991).

Cognitive appraisal is a central process involved in emotion generation and regulation. Cognitive appraisal consists of primary and secondary appraisals, which are key interrelated processes in the theory. Primary appraisals are motivationally orientated and evaluate the importance of a situation to the individual and whether personal goals are at stake (Lazarus, 1991, 2000). Primary appraisals consist of three components; goal relevance, goal congruence, and goal content (Lazarus, 1991). The appraisal is termed primary because without a goal at stake there is no potential for emotion (Lazarus, 1991). Secondary appraisal assesses what action can be taken in situations where there is the potential of harm or benefit to the individual. Responsibility of blame or credit is evaluated along with coping potential and future expectations (Lazarus, 2000). Blame or credit is dependent upon whether one feels accountable or responsible for the harm, threat, or benefit combined with an attribution of control of harmful or beneficial actions (Lazarus & Folkman, 1984).

Lazarus' CMRT posits that an individual's appraisal of a situation, along with their coping, influences the type of emotion experienced and how their emotions transform throughout the person-environment transaction (Lazarus, 2000). Thus, coping is the second key process involved in Lazarus' (1991) CMRT. Coping relates to the action that is taken to manage demands, more specifically it has been described as the psychological reaction to action tendencies which are subconscious, automatic responses to threat (Lazarus, 2000). How one copes is influenced by appraising what action is possible or necessary, what action is acceptable in the situation, and what action is likely to be most effective in dealing with the

situation (Lazarus 2000). Coping was initially classified into two categories: problem-focused and emotion-focused (Lazarus & Folkman, 1984). However, more recently it has been suggested that individuals may also use avoidance coping strategies and cognitive reappraisal (Tamminen & Holt, 2012) or task-oriented, distraction-orientated, and disengagement-orientated coping strategies (Gaudreau, El Ali, & Marivain, 2005).

Research with adult athlete populations has demonstrated support for different components of CMRT. For example, Uphill and Jones (2007) interviewed 12 international athletes representing a range of sports and noted that primary and secondary appraisal components were associated with a range of emotions (anger, anxiety, guilt, happiness, pride, relief, sadness, and shame), providing some support for Lazarus' (1991) core relational themes. Supporting the critical role of appraisals in the generation of emotion, Neil and colleagues (2011) interviewed twelve performers from varying sports and identified that in certain situations appraisals and negative emotions were interpreted as debilitative for upcoming performance, consequently resulting in a debilitative effect on athlete behavior. However, in other situations where appraisals and negative emotions were cited, further appraisals of the situation allowed athletes to interpret the appraisals and emotions as facilitative for upcoming performance through increased focus and/or effort. In contrast, Nicholls, Perry, and Calmeiro (2014) tested a model of achievement goals, stress appraisal, emotions, and coping based on a sample of 827 athletes and identified that emotions are just as important as appraisals in shaping coping.

CMRT has also been used within the youth sport literature, particularly with regards to studies of stressors, stress appraisals, and coping (see Tamminen & Holt, 2010 for a review). However, the majority of these studies have not focused upon or included details regarding the emotions that are experienced or generated (Nicholls et al., 2010). One exception is the study by Nicholls and colleagues (2010) that explored adolescent golfers'

emotions generated during and as a consequence of stress appraisals, after coping, and after event outcomes. Following interviews with ten male golfers, Nicholls and colleagues identified three "causal maps" that described stressful situations with a favorable outcome (causal map one), stressful situations that had unfavorable outcomes (causal map two), and stressful events that were perceived as heaving neither favorable nor unfavorable outcomes (causal map three). In situations allocated within causal map one, participants identified 10 different stressors, which could lead to participants experiencing anxiety or anger.

Participants implemented different coping strategies to manage their anxiety and then reported feelings of happiness, anxiety, hope, relief, and anger. In causal map two, a similar range of emotions were experienced as in map one but also included pride and sadness.

Finally, in map three, fewer emotions were reported, with only anxiety, sadness, and happiness being experienced. These findings highlighted both the importance of coping in generating positively toned emotions, as well as the possibility for multiple emotions to be generated from stress appraisals of one event outcome.

Such studies demonstrate the utility of adopting CMRT as a framework for examining emotion in youth sport, as well as emphasizing the importance of focusing on emotions. However, they are still limited in the extent to which they identify and examine the range of emotional experiences adolescents have at youth sport competitions. To this end, the purpose of this study was to examine adolescent tennis players' emotional experiences at tournaments. Specifically, this study sought to address three research questions: 1) What emotions do adolescents experience at tennis tournaments? 2) What are the precursors of the emotions they experience? and, 3) How do adolescents attempt to cope with these emotions?

173 Method

Methodology and philosophical underpinnings

A case study methodology was chosen for this study. A case study approach allows data collection to be extensive, drawing on multiple sources of information such as observations, written reports, and interviews (Yin, 2009). As such, a case study methodology was deemed an appropriate choice for the present study to enable an in-depth understanding of adolescent's emotional experiences to be obtained and understood within specific contextual conditions (in tennis competitions) that were pertinent to the study. Moreover, this methodology ensured that a detailed description and understanding of each case, through the use of multiple information sources, could be created, which aligns with the interpretive approach adopted by the research team.

Case Selection and Participants

Four individual cases were selected for the study (details of each case are provided at the start of the results section). Each case was selected based on age (e.g., Under 14 or 16), standard (e.g., currently or previously competing at national and international level), and their involvement in high performance training squads. Overall, the sample comprised four tennis players (two male and two female) aged 12-15 years (Mean \pm SD; age 13.5 \pm 1.73 years) with 8.8 years of tennis experience on average.

Procedure

Institutional ethics approval and permission from the National sporting organization were obtained. Following approval, eight potential participants were contacted to inquire into their interest and availability to participate. Four participants (and their parents) indicated an interest in participating and provided informed consent. Once consent was obtained, times and dates for data collection were scheduled based on participants' tournament schedules.

Data Collection

Data collection occurred through three methods: 1) observations; 2) written accounts (post-match review sheets); and 3) semi-structured interviews immediately following

matches (informal interviews) and at the end of the tournaments (formal interviews; see Appendix A). The data collection methods allowed for comprehensive information to be gathered from each athlete's perspective, enabling an in-depth exploration of participants' experiences to be obtained. Specifically, interviews were selected because they provide an opportunity for conversation to take place between the researcher and participant, during which time the participant has an opportunity to tell their accounts of experiences and emotions (Smith & Sparkes, 2016). Observations, meanwhile, were selected to allow us to gain insight into aspects of emotional experiences at the competitions that may be taken-forgranted or typical and thus would not necessarily be raised by the participants in interviews, while also providing great contextual understanding of the adolescents' actions and emotions (Thorpe & Olive, 2016). To ensure these methods would be appropriate an extensive pilot study with five county tennis players over 20 matches was first conducted.

Data was collected at tennis tournaments across England and Wales. The lead researcher travelled with each participant to film and observe matches and conduct interviews. The lead researcher, a qualified tennis coach and former semi-professional tennis player, had a professional relationship with all participants and conducted all interviews. This relationship assisted in the building of rapport with participants and helped to ensure that players were not distracted during matches because they were used to her presence. Additionally, the previous relationships facilitated the interviewer's understanding of each participant and the experiences they were describing. However, the researcher did have to take care to avoid any preconceived notions regarding the players' emotions.

Observation. Participants were required to complete a minimum of four matches to ensure sufficient information was gathered to understand their emotional experiences in a variety of situations. The lead researcher observed each participant's matches and recorded any outward behavioral reactions (e.g., swearing, throwing racquet, fist pump) and the time

they occurred in the match. The lead researcher noted down as many behavioral reactions as possible throughout the match, which ultimately lead to a commentary of the match score, what had happened in the preceding point, and any subsequent display of behaviors. The decisions regarding how to describe reactions were based on the extensive pilot study conducted before the match, as well as the lead researcher's 15 years of national and international tennis playing experience and 10 years of coaching experience.

The match observations were an important in the study because: 1) They provided prompts of situations that arose during matches that could then be discussed in the interviews; 2) Gave the lead researcher an overall "sense" of the match (e.g., did the player seem generally positive/negative in the match), and; 3) They ensured the researcher had a good knowledge of match situations as the participant talked through them, which helped participants to feel that their narrative and explanation of the match was understood.

Where possible, matches were also video recorded and used to prompt discussion during the formal (final) interview conducted following the tournament. Approval to film matches was sought from the participants' parents, opponents' parents, the opponent, and the tournament referee. Approval was granted for 13 of the 18 matches.

Post-match review sheets. Immediately following each match, participants were asked to produce written accounts of their match on post-match review sheets. The sheets comprised a number of questions prompting participants to describe their emotions throughout the match, whether their emotions changed, and how they coped with their emotions. The sheets provided the interviewer with valuable information to encourage discussion and probe responses in more detail during post-match and post-tournament interviews. The use of post-match review sheets also allowed participants to reflect on their emotions without feeling pressure to verbalize thoughts, which had been identified as challenging for some participants in the pilot study.

Interviews. Informal (straight after matches) and formal (at the end of tournaments) semi-structured interview guides were developed based broadly on CMRT, previous studies examining athletes' emotions in sport (see Nicholls et al., 2010; Uphill, McCarthy, & Jones, 2009; Uphill, Groom, & Jones, 2012), and the pilot study. Informal post-match interviews lasted between 10 and 25 minutes (Mean \pm SD; 14.5 ± 2.91) and focused only on the match the participant had just played. Informal interviews took place as soon as possible following matches so participants could still recall their experiences. In most instances, participants had further matches to play that day or in the tournament. Thus, it was deemed necessary to limit the lengths of these interviews and the depth of questioning.

Formal post-tournament interviews lasted between 40 and 60 minutes (Mean \pm SD; 47.7 ± 8.2) and focused on all matches played in one tournament. These formal interviews aimed to build on the insights gained from participants' informal interviews and written accounts. Formal interviews took place as soon as possible following the completion of a tournament. They were intended to identify the main emotions experienced in different matches, the precursors of these emotions, and the strategies participants used to cope. Participants were also asked to comment on their overall tournament experience and whether their reflections on previous matches had changed. Specific parts of match videos were selected to stimulate discussion based on participants' memories of key points and on the researcher's observations. The use of videos was deemed helpful in case participants were unable to recall parts of matches (Uphill et al., 2012).

Data analysis

Interviews were recorded, transcribed verbatim, and pseudonyms were allocated to participants. Verbatim transcripts were read and reread before analysis took place to ensure familiarity with the data. Interview data were then analyzed using qualitative procedures recommended by Miles and Huberman (1994). Initially data reduction was conducted, which

occurred through three stages of coding. First, descriptive codes were allocated to the data to identify raw data themes. For example, participant descriptions mentioning emotions, affects, and moods were coded as emotional experience, whereas descriptions mentioning attempts to manage demands were coded as coping. Next interpretive codes were generated, which grouped descriptive codes into more abstract concepts. For example, descriptions of emotional experiences relating to losing, winning, or certain results were coded together as "influenced by outcome". Finally, pattern codes identifying relationships between interpretive codes were developed. Following data reduction, data displays were developed to allow systematic reviewing of data (Miles & Huberman, 1994). Particularly, data displays were used to identify relationships between participants' emotional experiences, precursors of emotions, and coping strategies. Conclusions were drawn from data displays and verified against the original interview transcripts to construct a representation of emotional experiences and coping strategies employed during competition.

Methodological rigor

In line with the recommendations of Sparkes and Smith (2014), a number of steps were taken to enhance the methodological rigor. First, data collection procedures were extensively pilot tested. Pilot testing helped improve the quality and efficiency of the data collection process by revealing any issues in the design. Specifically, it ensured sufficient data regarding each case would be obtained to provide a detailed account of the experience. Second, using multiple data sources improved the quality of participants' responses, thereby increasing the depth of insights that could be gained. Multiple data sources also allowed a broader picture to be painted of emotional experiences and coping used during competition.

Additionally, as indicated, there was a pre-existing relationship between the players and the lead researcher (a tennis coach) who conducted all the interviews and observations. The researcher was not the individual coach of any of the players but she had been on the

coaching staff in-group training sessions that some had attended and had also travelled as a coach with the players to tournaments previously. As such, the players were very comfortable around the researcher and were used to reflecting upon their tournament performances with her, which we believe helped to enhance the quality and amount of information the participants' provided. Additionally, the researcher was well aware of tennis terminology (e.g., shanking, hacking) and certain (often subtle) behaviors associated with experiencing different emotions (e.g., playing with strings is often encouraged as a strategy to calm nerves, rushing between points is often characteristic of nerves or anger). Consequently, when communicating with the players, the lead researcher was able to understand and use their language which made the reflections and conversations easier for both parties. She was also able to demonstrate an understanding of their experience which, given that data was being obtained often straight after matches before other matches, was particularly helpful in ensuring that conversations were appropriate for the situation and that the participants were willing and keen to share their experiences.

Due to the lead researcher's previous relationship with the players and her experience in the sport we were cognizant that her own experiences and thoughts might impact upon the player's responses and subsequent interpretation of the responses. Recognizing this, the lead researcher took time to bracket (Sparkes & Smith, 2014) her own thoughts about tennis and emotion prior to the starting the study. This was undertaken through a number of detailed conversations with the research team, as well as via independent reflection. During this process, the lead researcher also reflected upon her knowledge of CMRT and recorded her preconceived ideas regarding how this might emerge at tournaments and in the data that were obtained. The lead researcher also reflected individually and with the research team after each tournament to ensure that the ideas that were obtained and developed were present in the data and had not been forced upon the data. The videos and observation notes were particularly

helpful in facilitating these reflections because they provided an opportunity for the researcher to return to each match as she was examining the interview data and look for "evidence" of the experience that was shared by the player.

328 Results

In the following section detail of each of the four players are provided to give context for the subsequent results section. Next, the emotional experiences of the participants are described, based around the main precursors of their emotions. In line with the focus of this study being on youth athletes' experiences, we have sought to express the emotional experiences of participants using their own words and ideas. Thus, rather than trying to "relabel" the "emotions" participants recalled based on theory, when participants explanations or language were more aligned with affect rather than a discrete emotion, we have chosen to include these and continue to use their language. Following the results, a summary of each of the cases is provided to illustrate the links between each element of the CMRT as experienced by each participant.

Participants

Beth. Beth was a 12-year-old female with four years' playing experience. She was ranked as one of the top players in Great Britain for her age (top 24). Beth's rating and ranking allowed her to compete in national and international events, which as she said, she "enjoyed a lot." Beth was experiencing great success at tournaments during the time of this study and was continuing to rise up the rankings rapidly. Consequently, Beth was feeling very confident about her tennis, but could be concerned about certain players if she perceived them to be stronger than her. She explained, "I get a bit nervous when I know she [the opposition] is good and I had watched her before and heard some of her results have been quite good." Additionally, due to her run of success, Beth was often the highest ranked player

in tournaments, which led to some feelings of anxiety, as she said, "I was quite confident but also quite nervous because I was number one seed... it's quite a lot of pressure."

Adam. Adam was a 12-year-old male with eight years of competitive tennis experience. Adam had previously represented his country but, at the time of this study, was mainly competing at regional and county level. Adam viewed the drop in competition level as, "a bit annoying because I do like those [national-level] tournaments, like the higher ones." Further, he expressed a recent loss in self-confidence associated with his drop in form, making statements such as, "I have been in a bit of disbelief that I could make it as like, to the top in the country." Due to his current form, Adam indicated feeling under pressure to improve his results. Adam perceived a need to impress coaches at tournaments because he did not want to be excluded from regional and national training camps. Additionally, Adam described a desire to impress his father. For example, Adam explained that he often said to himself, "please don't lose or dad is going to be so annoyed at you." Adam was also recovering from injury to his playing arm and a short illness. The injury had led to Adam's training program being inconsistent in the two-months prior to this study.

Daniel. Daniel was a 15-year-old male with ten years of playing experience. Ranked in the top 30 in Great Britain for his age group, Daniel was competing mainly at regional and national level events. All of Daniel's siblings also played competitive tennis to a high level. Daniel had recently recovered from an injury to his left foot, which had kept him out of training and tournaments for three-weeks. Due to his injury, Daniel indicated being less concerned with the matches because, "I am just sort of not thinking like about what I want to do like I just don't want to worry about it too much." Additionally, despite being out of tennis for a few weeks, Daniel indicated that he was generally feeling confident about his tennis.

Chloe. Chloe was a 15-year-old female with 11 years playing experience, who was currently ranked within the top 16 in Great Britain. Chloe performed extremely well over the

summer season but was struggling with her form during the winter season. Chloe believed that this was due to her reduced training program and inconsistent tournament schedule.

Although Chloe said she wanted to train and compete regularly but her parents were not willing for this to happen because she was in her final year of compulsory schooling.

Consequently, Chloe thought she could not control her performances and expressed that she was not enjoying her tennis because her results had been poor.

Perceptions of Opponent's Ability and Performance

When considering the precursors to their emotions, participants provided many examples of how their perceptions of their opponent's ability and consequently the anticipated outcome of a match could influence the emotions they experienced before a match. For instance, prior to his first match, Adam expressed feeling confident and relaxed before the match because of his opponent's lower ability, and thus he perceived that he was very likely to win. Adam's confidence was evidenced in statements such as, "I felt confident because I knew that he wouldn't challenge me too much but at the same time I was relaxed because I had to wait a little while [before playing]." Adam's confidence in the outcome of the match led to him feeling happy, as Adam stated, "I even felt happy before going on because I knew it was a match where I could mess about and still win."

In contrast, before all her matches, Beth expressed feelings of anxiety. As Beth explained before her first match, "I was a bit nervous because I knew she was good and I had watched her before and heard some of her results have been quite good." This made Beth feel uncertain about the outcome of the match, so she said, "I was just like doing riddles to relax me." However, before her fourth match, Beth expressed feeling anxious because, "I never played the girl before so that made me quite nervous because I didn't know if she was good or bad." To cope with this Beth warmed up because, as she said, "when I warm up I don't think about playing the game I think more about warming up and that makes me relax."

Similar emotions were expressed during the early stages of the match, as the players began to gain further insights into how they matched up against their opponents. For instance, at the start of his second match, Daniel expressed that he felt positive because he immediately identified his opponent's weaknesses, stating, "I sussed out that he was not a good mover so I decided to move him around." Daniel felt relaxed because he was leading throughout the match and was winning comfortably. Beth, similarly, recalled feeling relaxed and confident as her second match started because, as she wrote, "I was going to win because in the warm-up she was rubbish so I just relaxed really." For both Daniel and Beth, it seemed that as they felt their goal (i.e., to win) was not under threat they were able to relax and enjoy the start of the match. However, as Beth's match continued she explained that she started to feel bored because, "Every time I would just hit the ball back she would miss so it was not a proper rally?" Thus, it would appear that beyond a desire to win, Beth wanted the match to reach a certain performance threshold. To cope with this boredom, Beth changed her game plan and attempted to hit more winners and finish the points more quickly.

In instances where participants had identified their opponent's weaknesses and perceived themselves to be the "better" player, they often expressed frustration if they were unable to execute their game plan. For instance, in his third match, Adam indicated that he was confident at the beginning of the match because he knew his opponent's weaknesses and started the match well. However, as the match progressed Adam lost his first game and, as he said, "I think there were a few loose shots and I got a bit frustrated." He tried to cope with his frustration by "just thinking of my strengths and like playing to his weakness."

Similar feelings of frustration and anxiety were apparent when participants' opponents were playing well and preventing the participant from executing their game plan or performing at their best. For instance, in his second match, Adam expressed feeling frustrated because his opponent was playing well. As he explained, "I had to get into difficult

positions to hit the shot so I wasn't hitting the ball well and I was getting a bit frustrated." Nevertheless, Adam indicated that he still felt positive because he perceived that he was able to beat his opponent. Beth, meanwhile, explained that she found it frustrating to deal with her opponent's performance in one of her matches. She explained, "I couldn't really make her move because it didn't work and it was getting me so angry because she was just getting the ball back and it was frustrating and it wasn't very nice just standing there." Beth tried to adapt her tactics as she said, "I tried to hit it a bit harder to make her run a bit and do angles but every time I did it I think like 4/10 times I got them in." The inability to counter her opponent's play led to increasingly intense anger.

Opponent's Behavior

In addition to their opponent's ability, participants also described emotions arising as a result of their opponent's behavior or temperament. As with perceptions of ability, emotional responses appeared to arise a result due to the potential for such behaviors to prevent the participants from winning matches or performing to their highest level.

Specifically, opponent's cheating was associated with feelings of anxiety and frustration. For instance, prior to starting his semi-final match Adam expressed feeling anxious because the referee had warned him that his opponent made poor line calls (cheated). Based on past experiences of playing people who cheat Adam explained, "Sometimes I panic when I am playing those people. If they do bad line calls I panic and lose my concentration or get really frustrated." To cope, Adam told himself not to hit too close to the lines and thus limit opportunities for his opponent to cheat.

For Chloe, there were a number of issues with varying opponents that resulted in negatively toned emotions. For instance, in her second match she the thought that her opponent was cheating, which resulted in her feeling, "really pissed off [angry] because she called so many big points wrong and I could have won the game." Her feelings of anger were

further exacerbated in that match when she was subsequently hit in the face by one of her opponent's shots. To cope with her anger Chloe said, "I just chucked the racquet a few times." Similar coping strategies were used in her next match, when Chloe explained that she found her opponent, "irritating and her behaviour was making me feel angry." For example, when her opponent was shouting "come on" between points Chloe perceived this was a purposeful action in an attempt to irritate her, which made her angry.

Finally, Daniel experienced a range of emotions in response to his opponent cheating in one match. Initially Daniel viewed this as "quite funny", however as the match went on, and the impact of the behaviors on his performance were more apparent, he said, "when he started to carry on doing it, it got me a bit angry... I thought I let it affect me too much which is disappointing." When Daniel was trailing by two games in the second set the referee came on court for six minutes to try and sort a dispute over the score. Daniel felt frustrated because he believed his opponent was trying to change the score and said, "He was trying to make me look really stupid." Daniel went on to lose the game but expressed that the break in play when the referee came on helped him to refocus, he stated:

I think like the time that was taken with having what is it called the ref person on... umm... and the time taken by change of ends, I thought I had thought about what I needed to do, which was literally just go back to the basics and just play like, do like ten percent [better].

Match Score and Ongoing Performance

With the participants strongly tied to their goals of winning matches and performing well, the impact of being in the lead or being behind in matches appeared to be closely tied to their emotional experiences.

Leading in matches. Taking the lead in a match, particularly early on, was accompanied by feeling confident and happy. As Adam explained, in match one after taking

an early lead, he felt "feeling confident. I was hoping to win without dropping a game."

Adam believed that feeling confident improved his performance, as he explained,

"[confidence] adds a little bit of playing well." As he continued to play well, Adam described feeling happy and relaxed as he was winning so comfortably. However, he also indicated that he, "was getting a bit bored towards the end of it... so had to make sure I kept my focus."

Such feelings of boredom arose as Adam did not feel he was being challenged in the match.

However, leading too easily in matches also appeared to trigger negatively toned emotions. For instance, Beth won the first game of her first match without dropping a point. When commenting on how this made her feel Beth wrote, "excited because I won the first game... I like going one game up so I know I can win the match and this relaxes me." Beth also said, "I always like to win the first game because it makes you feel more confident and it makes me feel like I can do this." As the match went on Beth indicated that her emotions changed, she stated, "I went more worried and anxious, I didn't want to like miss because she was getting everything back... I was worried about losing and like not playing very well, I was worrying about the outcome and thinking about losing the match." In this instance it appeared that Beth's early success in the games resulted in her increasing her expectations of her performance and subsequently placing pressure on herself to win and win well.

Trailing in matches. For participants, it appeared that feelings of anxiety were particularly prevalent if they lost the opening games of a match and became concerned that they might not have a successful outcome. As Beth explained after her third match, "the first game I lost so I was still feeling nervous." To cope with her nerves in this situation Beth tried to slow things down by taking more time in between points. Beth believed that her nerves were affecting the way she was playing in the first set, which further exacerbated her anxiety. When commenting on her experience during the match Beth wrote, "I got nervous every time

I lost a game and more confident when I won one... I tried not to go for so much and play defensively so she would miss [to cope with nerves]."

In some matches, initial feelings of anxiety appeared to progress to anger if their performance did not improve. For instance, Chloe lost her opening service game of the second match, which made her feel nervous and lose confidence. To cope with her nerves Chloe said, "I used breathing techniques and umm I shock my hand out." As the match progressed, Chloe explained how she began to feel angry:

I went from nervous at the start to angry... I started missing a lot of balls and umm when I was losing points. I started to like get on a roll of winning a game and then the next game it would be junk and missing so many shots.

When commenting on her experience throughout the first set Chloe said, "when I was angry I just got frustrated and got down about not winning enough points... I lose focus because I am just not really caring ...I thought I was going to lose so then I don't care." Chloe attempted to cope with her frustration by slowing her breathing down but expressed that it did not work. Rather, simply accepting that she was going to lose (i.e., disengaging from her goal) eventually lead to her anger dissipating but being replaced by feeling "down".

However, in contrast, Adam was able to remain positive after losing the first couple of games in a match because, as he explained he was, "telling myself like not to panic because I knew that he was playing well and I wasn't doing anything wrong with my shots." Adam then went on to win the next three game and lead for the first time in the set. However, at this point, Adam explained that he lost focus because "I was thinking too much about it umm like going, like saying I have to win this set now." Adam placed a lot of importance on winning this game because, as he said, "I had just worked really hard to get it back to that score line and then like it's just a waste really if I mess it up." Adam believed that focusing on the outcome of the match caused him to panic and "tense-up."

The transfer from one set to another set seemed to be a key moment when participants' emotions might change as they "reset" the match in their mind. For instance, after losing the first set of her second match, Chloe conveyed feeling some hope with the statement, "I thought I could get back in it because it was a new set and third set is only a match tiebreak so easy to win it could go either way." Although Chloe had a poor start to the second set she stated, "I still felt I could win because even though I was 3 games down I started to play a bit better than I had been so I was making a few more balls and getting a bit of a rhythm."

However, if players were not able to enhance their performance from one set to the other, feelings of anxiety and frustration became increasingly apparent. For instance, describing one of his matches Daniel explained that at the start he was, "pretty calm at the start I was making a lot of errors at the start but I tried not to let them affect me." But, as the match progressed Daniel began to feel nervous:

The further the match went on the more nervous I got because I was losing and that probably like sparked something to say like I am actually losing I've got to like win this round ... so I sort of used those nerves maybe to give me a bit more energy to like actually turn the match around.

Despite attempts to use his feelings of anxiety to push himself to improve his performance, Daniel explained that they affected his movement and stopped him from hitting through the ball because his muscles got tense. When asked what Daniel did to cope with his nerves he said, "just breathe, do the basic things well and basically just try not to let it affect me too much just obviously like do my routine at the back of the court." Despite losing this match, Daniel did think his performance improved as a result of these coping strategies.

Fluctuating Score Line and Performances

In the majority of the matches, the score and the players' performances changed regularly, and such changes appeared to trigger a range of emotions, particularly as the end of matches drew closer.

Losing a lead. Participants indicated a variety of reasons for losing a lead in the match, all of which subsequently influenced the emotions they experienced. For instance, after losing the first game of his third match, Adam went on to win five games in a row taking a one set and three games to love lead. Adam expressed feeling very relaxed and confident during this part of the match because he was winning comfortably. However, Adam's emotions started to change as his performance changed, as he stated, "I started to make more errors... I was making some silly errors because I probably got too big for my boots and then I was getting frustrated at that because of the type of shots I was missing like easy shots." Such frustration resulted in Adam's "muscles tightening up" and he did not know what to do to cope with the frustration. Subsequently, Adam started to panic about the score as he was unsure what to do and he felt that he "couldn't let him win this because I had like a good lead." Such panic resulted in feelings of anxiety and further frustration.

The reason for losing points, and subsequently games, appeared to largely affect the types of emotions participants experienced. For instance, expressing views held by many, Beth explained, "it annoyed me when I was making the mistakes when it was unforced, when it was forced I didn't mind but when it was unforced errors it would get to me." To cope with her annoyance Beth mentioned a variety of strategies including putting her hands up in the air because she thinks it helps her get rid of her anger, looking to her parents for support and reassurance, shadowing her swings, and playing with her strings at the back of the court. The success of these strategies appeared variable, but in many instances appearing to exacerbate feelings of anger as Beth's performance did not improve.

Making errors and losing points, especially after playing well, appeared to result in participants' feeling that the match outcome was in jeopardy and subsequently feelings of anxiety emerged. For instance, Chloe described her final match, stating:

In the first set I was quite hopeful and confident... I was playing well especially like the first four games I just felt like I was dossing about like toying (in control) because she wasn't that good the first set and then I was just happy.

After winning the first set Chloe expressed feeling very happy because she thought she might win the match. However, Chloe lost the opening few games in the second set and stated:

I changed from hopeful to a bit nervous because I was losing points and then I thought maybe I was going to lose so I was getting a bit nervous and then I was getting angry because I was missing shots that I shouldn't have.

Coming back from behind. In contrast to the negatively toned emotions that arise when losing a lead, when participants starting winning matches a range of positively toned emotions were apparent. For instance, having lost the first game of his fourth match, Adam then faced points to go two games to love down and he indicated feeling worried about the core. Adam won the game and level the match at one game all. Having won this game, Adam reflected, "I was quite pleased with myself that I had stuck in the game and won it" but explained he was also "relieved" and "amused" at the same time because his opponent had let him off the hook and given him the lead back (His opponent had lost track of the score and told Adam it was 2-1 when it was 1-1).

Similarly, Daniel managed to fight back and level the score in the opening set of his first match, which lead to him feeling "happy and relieved." However, having levelled the score, he explained that he got "a bit too confident" and he began to over hit and be a bit too aggressive, which led to errors. Eventually Daniel narrowly lost the set, which made him feel disappointed because he had worked hard to fight his way back into the match. To cope with

this disappointment Daniel took a toilet break to give him self time to regroup and focus on what he needed to do to win the second set. On returning to the match, Daniel lost the opening game of the second set, which made him feel frustrated because as he said, "I just wanted to win." Here Daniel stated:

I just sort of went back to basics and thought what I do best and tried to execute it... I got quite pumped in that second set because I wanted to win it and I didn't want to give him any hope that he was going to win that second set so I did like shout "come on" and stuff quite a few times.

Situation Criticality

On examining the participants' descriptions of their matches, it was apparent that certain points were deemed more critical or important, and these were consistently associated with feelings of anxiety. The most apparent situation was when participants were trying to "close-out" a match (i.e., win the final game). For instance, in her first match, Beth was serving to win the final game and she hit two double faults. She said, this made her tense up despite the fact that she had not dropped a game in the match because she was thinking, "what if I go back to three games all." Beth thought she had double faulted at this point in the match because she had got too excited about winning. To cope with double faulting and losing the point Beth was reassured herself that she was going to win the game and the match.

In contrast, when Adam had numerous match points and lost them in his first match he said he was thinking, "just don't crack," which he felt had a negative effect on his tennis. At this point Adam expressed feeling angry and was visibly losing his temper by shouting out comments such as "stop making mistakes" and "come on" after missing shots. Adam stated, "I think I was thinking too much about the score… I was just trying not to make errors but I

always did." To cope with his anger and the mistakes Adam tried to use breathing techniques to relax but he said they did not work.

In addition to the anxiety experienced in the final game of a match, when the score line was close, extra pressure and subsequently feelings of anxiety could be experienced. For instance, Beth had been trailing in the second set of her third match and managed to level the match at three games all. At this point Beth said she relaxed because she believed she could get back into the lead. However, because the game was close Beth "got a bit more nervous just thinking what if she wins this game I am going to be four, three down ... if it went to a tiebreak like she was going to be on top." These thoughts made Beth panic so she tried to be more consistent and disciplined with her shot selection.

In close matches, it appeared that any fluctuation in the score near the end was particularly pertinent. For instance, in his third match, Daniel had opportunities to take the lead and be in a position to serve for the match. However, he expressed feeling nervous because he started to lose a few more points and consequently started thinking, "just get it over with just play solid tennis again just don't let it go that close because then you will give him a bit of hope." To cope with the situation Daniel stated, "I just went back to basics and thought about winning instead of thinking about how I am going to play better."

Match Outcomes and Perception of Performance

When reflecting on their matches, the participants generally described positively toned emotions with winning and negatively toned emotions with losing. For instance, following her loss in her fourth match, Beth simply stated feeling, "Just pissed off, depressed I guess... I just want to go home to be honest." In contrast, following her win in her first match Beth expressed feeling, "happy because I had won, so that's what I wanted to do." However, although winning matches was generally associated with positively toned emotions they could be tempered by the situation. For instance, in her final match, Chloe's opponent

withdrew which resulted in Chloe saying she was annoyed because, as she explained, "What a waste of time! I was going to win that I was actually going to win that and then she pulled out so technically it wasn't really a win."

For Adam, the success of his emotional regulation – which was a key focus of his for the summer – appeared to largely influence his feelings after matches. As such, when Adam lost matches but managed to fulfil his goal of controlling his emotions he indicated that he felt, "good because I knew that I had kept my emotions." Adam described, "keeping his emotions" as not losing his temper or showing any emotional reactions to his opponent. Even when he won his final match, Adam indicated that he was unhappy because, as he said, "I am feeling pleased because there were tricky situations in there but not so pleased about my emotions.... I panicked too much in the second set."

Participants' perceptions of their performance, independent of, or in addition to, the outcome, also appeared to influence their emotions. For instance, following her second match, Chloe indicated the match went very badly. When asked what was bad about the match Chloe replied, "everything." Chloe expressed feeling upset with the score of the match and said, "I wasn't even close to winning the match." Chloe was also angry at the way she performed and stated, "I didn't make many balls and if I had a short ball I kept missing it and I didn't really do anything with the game to be honest." When asked what she was trying to do to cope with her emotions now that her match had finished Chloe wrote "nothing." In contrast, despite losing Beth said after one of her matches:

I was happy even though I lost as I said I like missed shots that I could have probably got in but yeah I was feeling happy but also upset... I was upset because I had lost and happy because I had played well.

Beth said, "I felt proud of myself" and to cope with the defeat she was talking to her friends.

If, however, participants were unsuccessful and perceived others would judge this outcome because they "should have won" they described feeling disappointed, angry, and embarrassed even if they had played well. For instance, following her second match Chloe expressed that the anger she felt on court continued because, "what's making me most angry is that I should have beaten her." Chloe further explained that she was disappointed and embarrassed because she thought she had performed poorly and stated, "if people are looking at the results they'll think she's [Chloe's opponent] rubbish and I should have beaten her quite easily." Chloe stated this upset her because, "they [other players] will think they are better than me." To cope with these feelings Chloe said she was going to ask her parents to increase her training programme. Adam shared similar feelings of disappointment when he lost quite easily to a lower-rated player. He explained that other players, coaches, and his father would judge him for losing to a lower-rated player and he "definitely thought about having that ratings loss and other people looking at the score line." Adam tried to cope with his disappointment by reassuring himself that he did his best.

**** Table 1 here ****

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Discussion

The purpose of this study was to increase understanding of adolescent tennis players' emotional experiences during competition by considering what emotions adolescents experience, the precursors of these emotions, and how adolescents attempt to cope with these emotions. Overall, our results indicate that the athletes were predominately focused upon the outcome of their matches (i.e., they had the goal of winning matches) and situations such as opponent's behavior, their own performance, and the score line, were appraised against these

goals. Consequently, depending upon the impact on their achievement of their goals, athletes experienced different emotions during matches and tournaments. Athletes also employed a variety of emotion- and problem-focused coping strategies, which varied in effectiveness.

Our findings support previous research that has suggested athletes' goals and appraisals are associated with the elicitation of emotion (Graham, Kowalski, & Krocker, 2002; Uphill & Jones, 2007). Athletes reported experiencing a range of positively and negatively toned discrete emotions — including the 15 identified by Lazarus (1991). However, consistent with numerous other studies (e.g., Tangney, Miller, Flicker, & Barlow, 1996; Zeelenberg, Van Dijk, Manstead, & van der Pligt, 2000), the participants also described a number of positively and negatively toned affective states beyond Lazarus' discrete emotions. Although these affective states may not fall within the traditional classification of emotions, the athletes in this study clearly identified with them and perceived them to influence their performance. Thus, it may be beneficial for practitioners to account for these affective states, as well as the traditional emotions, when working with youth athletes to ensure that sufficient strategies are developed.

When participants were leading in matches or had won they almost exclusively reported experiencing positively toned emotions (e.g., happy) as a result of the outcome. This is unsurprising and aligns with existing literature that has proposed that when individuals benefit from a person-environment relationship they experience positively toned emotions (Lazarus, 1991, 2000; Uphill & Jones, 2007). However, the findings diverge a little from those of Nicholls and colleagues (2010) who found that although positively toned emotions were more common in favorable situations among elite adolescent golfers, negatively toned emotions were also experienced. Within the current study, negatively toned emotions when in favorable situations were very rarely recalled. When negative emotions were recounted they were associated with a perception of poor or inappropriate behavior from the participant or

their opponent, or a change in the athlete's focus, which subsequently resulted in them making more mistakes and either struggling to maintain a lead or losing. Lazarus (2000) has previously suggested that losing in competitions might be perceived as harmful to individuals and this was clearly evidenced when the participants found themselves becoming frustrated as their performances decreased. Interestingly, in the current study it seemed that one of the most prominent perceptions of harm from losses was that losses would damage participants' reputations. Such a difference between these findings and those of Nicholls and colleagues may be due to the almost exclusive focus on winning and losing described by the participants in the current study, resulting in a dichotomous view of matches and subsequent emotions.

When participants lost matches they all reported experiencing negative emotions. In line with Lazarus' (1991) CMRT it was apparent that such negative emotions arose because participants' experienced harm to the achievement of their personal goals (of winning). Only one participant, Beth, mentioned experiencing a positive emotion in the form of happiness following defeat. Beth explained that she felt happy because despite losing she had performed well. In this instance, it seemed that Beth's goals for the match were aligned with her performance (rather than the outcome) and thus although she lost, the defeat had not threatened her personal goals. Again, this finding differs somewhat from Nicholls and colleagues' (2010) study with adolescent golfers, who although generally recalling negatively toned emotions in unfavorable situations, also recalled positively toned emotions as well.

In line with contemporary approaches to examining emotions in sport (Smith, Bundon, & Best, 2016; Tamminen & Bennett, 2016; Tamminen et al., 2016), despite tennis being an individual sport it was apparent that some of the emotions the participants described arose as a result of their interaction with their opponents and their anticipated interaction with their peers and parents following matches. That is, participants described specific (generally negatively toned) emotions arising as a result of disputes with their opponents, irritation at

their opponents' behaviors, and also concerns regarding how parents and peers would perceive losses or poor performances. Within these situations, it was apparent that current social interaction with opponents, and anticipated interaction with parents and peers, influence participants' appraisals of the situation and subsequently the emotions they experience (Tamminen & Bennett, 2016). As such, in seeking to help young athletes develop strategies to manage emotions, it would appear pertinent to first help them to understand how their emotions might arise and examine the interpersonal influences on their experiences before or in addition to teaching individual coping strategies.

The results of the current study also supported CMRT's contention that both problemand emotion-focused coping are used to influence the type of emotions experienced (Lazarus,
1991). However, the strategies described by the participants in the current study also appear
to align closely with Gaudreau and colleagues (2005) categories of task-, distraction-, and
disengagement-oriented coping. All participants described drawing on a variety of taskorientated coping strategies, particularly logical analysis of the situation and thought control,
particularly when feeling anxious or angry. Further, suggestions of distraction-oriented
coping were also prevalent, with participants indicating that they tried to think about other
things prior to matches or when they were feeling nervous during games. Perhaps, most
interestingly, Chloe specifically described many situations in which she resigned herself to
defeat (disengagement-orientated) as a strategy to manage her anxiety and disappointment
associated with her poor performances and concerns over losing.

Nevertheless, the extent to which participants were able to identify coping strategies to effectively manage situations leading to different emotions was variable. In general, participants discussed strategies to manage feelings of anxiety but had limited strategies to manage frustration and anger. Unfortunately, for the participants in this study, their inability to manage situations leading to initial negatively toned emotions often resulted in feelings of

helplessness and further negatively toned emotions. As such, the findings reaffirm the critical need to enhance young athletes' coping abilities to not only enhance performance but also increase the enjoyment they experience when playing (Tamminen & Holt, 2010). As adolescent athletes have been acknowledged as learning to cope in various ways, including through trial and error (Tamminen & Holt, 2012), and given the extent to which different emotions were intertwined in these matches, it would seem necessary to help athletes reflect on their different coping efforts in an attempt to evaluate their effectiveness. Providing athletes with a 'toolbox' of coping strategies, which can be practiced in different situations and then retained or discounted depending on the consequences would seem useful.

A consistent feature across contemporary models of coping (e.g., Aldwin, 1994; Lazarus, 1991; Lazarus & Folkman, 1984) is that cognitive appraisals and coping are fundamental to individuals' efforts to manage demands. In this study, when participants were able to make positive appraisals of demands and emotions, coping appeared to be more effective than when negative appraisals were made. Consequently, in line with previous literature, it was apparent that facilitative interpretations of negative emotions could add positive value to performance, whereas debilitative interpretations of negative emotions can be detrimental to performance (e.g., Mellalieu, Hanton, & Fletcher, 2006; Neil, Hanton, & Mellalieu, 2009). As such, helping adolescents to understand the role perceived negative emotions, such as anxiety, have in helping them to appropriately prepare for competitions might help athletes to reframe their emotions. Similarly, providing adolescents with strategies to reappraise emotions would appear to be a beneficial strategy to help not only enhance their performance but also increase their enjoyment of that performance.

Limitations and Future Directions

In the current investigation the selection of a case study approach meant that the sample of athletes was comparatively small. A larger sample would present a greater

opportunity to look for trends in athletes' emotional experiences in the competition environment. For example, the current study has so far shown each participant's emotions were related to the status of their goals. Consequently it would be interesting to see if such trends continued to arise in a larger sample of athletes. A further limitation of this study was that the assessment of the intensity of emotion was absent. Research has highlighted that understanding intensity of emotions can add insight into why athletes interpret emotions differently to upcoming performance (Mellalieu et al., 2006). Therefore, taking emotion intensity into account could further extend understanding of athletes' emotional experience in competition and help to explain individual differences.

The findings of the present study have highlighted that cognitive and social developmental differences within participants may have influenced their ability to feedback on emotional experience. Literature has also strongly suggested that developmental differences need to be considered when attempting to understand emotion in adolescents (e.g., Crocker et al., 2004). In the present study, Adam and Beth were both twelve-years old and there were noticeable differences in their ability to feedback about the content of their emotional experiences. Adam was able to describe his emotional experience with more ease and in greater detail than Beth. Accounting for such developmental differences in future studies may be beneficial.

Conclusion

The present study has allowed various practical findings to be drawn regarding adolescent athletes' emotional experiences at tennis tournaments, which are of importance to coaches, athletes, and sports psychologists. The findings have illuminated the emotions adolescent athletes experienced, the precursors of these emotions, and the strategies used to cope with emotions during tennis matches. Taken together, the findings of this study provide

an initial base from which practitioners can work to help young athletes better understand and cope with the emotions associated with competition.

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924	

Timing	Emotional experience	Precursor to emotional experience	Coping strategies
Pre-match	Confident	Certain of outcome	
		Beaten opponent previously	
	Relaxed		
	Positive		
	Nervous	Number 1 seed	
	11011045	Expected to win	
		Aware of opponent's ability	
		Close previous meetings	
		Uncertain of opponent's ability	Took time Warmed up
		Perception of opponent ability Lost in previous matches	Distracted self from match
	Excited	Opportunity to quality for another tournament	
During	Relaxed	Leading in match	
match		Opponent making errors	
		Won first set	
		Levelled match score in second set	
	Confident	In control of match	
		Won first set	
		Won first game of second set	
	Bored	Winning too easily	Finished match quickly Played aggressively
	Nervous	Poor start	
		Lost points and games	Took time between points
			Adapted game plan
		Trailing in the match	Took time between points
		Close score line	
		Possibility of losing	Adapted game plan
		Serving for match	Took time between points
	Frustrated	Making errors	Looked to parents for support
			Shadowed shots
			Focused on game plan
		Opponents' game style	Took time between points
		Losing points	Took time between points
	Angry	Making errors	Played with strings
		Opponents' game style	Focused on game plan
	E 1	Classic	Took time between points
	Excited	Close to wining Won opening game	
	Anxious	Making errors	Reassured self
		Opponents style of play	Adapted game plan
	Disappointed	Lost points and games	
Post- match	Нарру	Performed well Won	
	Relieved	Won the tournament	
	Upset	Lost	Took mind off match
		Limited chance of qualifying	Spent time with friends

Table 2. Adam's Tournament Experiences

Timing	Emotional	Precursor to emotional experience	Coping strategies
D.	experience	D	
Pre-	Confident	Perception of opponent ability	
match	Relaxed	Perception of opponent ability	
		No pressure	
		Spent time socializing	
	Нарру	Feeling he could win	
	Nervous	Opponent's rating	Focus on positives from previous
		Perception of opponent's ability	matches
		Opponent reputation as "cheat"	Limit chances to cheat
	Positive	Certain of winning	
		Recent success against opponent	
During	Confident	Leading in the match	Exploit opponent's weakness
match		Winning games	
	Relaxed	Know opponent's weakness	Exploit opponent's weakness
		Leading in the match	
		Feel more capable than opponent	
	**		
	Нарру	Leading in match	
		In control of match	
		Certain of positive outcome	
	- 1	Won tough game	
	Bored	Winning too easily	Focus on game plan
	Positive	Performing well	
		Perceive doing all he could	
		Aware of opponent's weakness	
		Gained control of match	
	Panic	Focused on outcome	
	Angry	Lost lead	Kept thoughts in present
		Lost games	Focused on "fight"
			Focus on strengths
			Target opponent's weaknesses
	Nervous	Opponent playing well	Played with caution
		Opponent's style of play	Focused on strengths
	Down	Making errors	
		Perceive lose first set	Focused on strengths
	Frustrated	Losing	Hid emotions
		Lost important game	Positive self-talk
		Opponent's style of play	Reassured self
		Lost service game	Focused on strengths
		Perceiving lost opportunities	Adapt game plan
		Making errors	Breathing techniques
	Lacking	Trailing in match	Focus on tactics
	confidence		Focus on fight
	Worried	Opponent created opportunities	Adapted game plan
	Relieved	Regained lead	
Post-	Нарру	Performed well/won	
match		Maintained emotions	
	Confident	Performed well	
	Disappointed	Lost	Reassured self
		Concerned re. consequences of losing	Took mind off match
		Being judged	
	Positive	Injury gone	
	Uneasy	Confusion over score	

Table 3. Daniel's Tournament Experiences

Timing	Emotional experience	Precursor to emotional experience	Coping strategies
Pre-	Calm	Not focused on match	
match		Not thinking about match	
	Positive	Confident will win	
	Confident	Not focused on match	
		Unaware of opponent	
		Previous good performance	
During	Nervous	Trailing in match	Breathing techniques
match		Closing match out	Shadowed swings
		Poor previous performance	Planned for following point
		Losing points	Focused on game plan
		Importance of match	
		Underperforming	Adapted game plan
		Uncertain of outcome	Raised intensity levels
	Angry	Training in match	Threw racquet
		Altercations with opponent	Used strategy from coach
	Relaxed	Winning	Focused on maintaining play
	Confident	Not being challenged	
		Performing well	
		Turned match around	Told himself he was out of match
		Improved performance	
	Disappointed	Lost first set	Took toilet break
			Took time
			Focused on how to play
	Frustrated	Training in match	God "pumped" up
		Underperforming	Positive emotional reactions
			Adapted game plan
Post-	Angry	Opponent's behavior	
match	Happy	Won	
		Performed well	
		Looking forward to final	
	Frustrated	Lost	Focused on positive from match
		Missed opportunities	
		Thought should have won	

Table 4. Chloe's Tournament Experiences

Timing	Emotional	Precursor to emotional experience	Coping strategies
D	experience	N. d. 1.	
Pre-	Relaxed	Not thinking about match	
match		Did not care about outcome of match	
		Expected to lose	
	Nervous	Not timing ball well in warm up	Breathing techniques
		Uncertainty of match outcome	Tried to relax muscles
		Miss hitting ball in warm up	Slowed breathing
	Angry	Previous performance	
	Confident	Prepared well for event	
		Expected to win match	
	Depressed	Previous match	
During	Nervous	Poor warm-up	Breathing techniques
match			Tried to relax muscles
		Trailing in match	Breathing techniques
		Possibility of losing	Tried to relax muscles
	Frustrated	Missed opportunities	Focused on quitting tennis
		Lost set	
		Underperforming	
		Trailing in match	Stopped caring out outcome
		Making errors	Focus on fighting for points
			Focus on not losing temper
	Angry	Making errors	Threw racquet
	8 7	Trailing in match	Threw racquet
		Opponent cheating	Threw racquet
		Lost games	Took mind off match
	Despondent	Underperforming	
	2 csp shach	Trailing heavily	
		Missed opportunity	Shouted at self
		Lost games	Took mind off match
	Relaxed	Trailing in match	Not focused on match
		Realized had a chance of winning	Concentrate on match
	Hopeful	_	Work harder
		Won games	work naruer
		Performing well	
	D'	Chance of winning Trailing in match	Shouted at self
	Disappointed		
	C C1	Missed opportunity	Threw racquet
	Confident	Leading by a set	Focused on game plan
Post-	Upset	Performed poorly	
match		Lost	
	Angry	Performed poorly	
		Lost	
	Disappointed	Lost	Focused on increasing training
	Embarrassed	Feel others are judging performance	Focused on increasing training
	Depressed	Lost	Focused on going home and
	-	Performed poorly	quitting tennis
	Frustrated	Opponent withdrew	
	Нарру	Won	
	imppj	,,, on	L

935	Appendix A
936	Post-match review questions, informal interview guide and formal interview guide.
937	The format of these documents has been altered for publication.
938 939 940 941 942 943	When starting the study, all participants were provided with an explanation of the study and within this they were given an explanation of emotions and coping. Specifically, participants were informed that emotions are discrete (specific) feelings that arise quickly in response to situations. Coping refers to thoughts and behaviours that are used to try and manage demands that you find taxing (e.g., different attempts to manage thoughts or situations that arise before, during, or after the match that might be leading to you feeling different emotions). These explanations were reiterated at the start of each formal interview.
945	Post-match review sheet:
946	Name:
947	Date:
948	Opponent
949	Score:
950	Pre-match: How did I feel before the match? What did I do to cope with this?
951	Start of match: How did I feel at the beginning of the match? What did I do to cope with this?
952 953	During match: How did my emotions change during the match? What did I do to cope with these different emotions?
954	End of match: How did I feel at the end of the match? What did I do to cope with that?
955	

Informal Interview Guide

<u>Introduction:</u> Before each interview I will remind the players everything they tell me is confidential and they can stop the interview at anytime. They can also choose not to answer questions if they don't want to. I will also remind them there are no right or wrong answers and I am just interested in what they have to say. I will ask them if they have any questions before we start the interview.

Introductory questions

How do you feel that match went for you?

- Overall experience-positive, negative? (Probe for stories about the overall match performance, so the player isn't only focused on the outcome, defining moments).
- Did you have any expectations for this tournament/ match before starting?

Main questions

- 1. What were your emotions before starting your match?
- Probe regarding positive & negative emotions, what influenced these emotions? (e.g., why did you felt happy/sad/anxious etc)
- 2. What did you do to manage this situation (each specific emotion described)?
- Does that work for you, how were you feeling after trying to manage this emotion?
- 3. Talk to me a bit about your emotions once you started the match, did they change at all?
- Probe regarding positive & negative emotions, what influenced these feelings?
- 4. Did you try to do anything to manage the situations leading to different emotions? (work through each emotion discussed).
- 5. Did you feel like your emotions were changing at any points in the match? (use notes from watching the match to stimulate the questions).
- Probe regarding positive & negative emotions?
- What influenced these emotions?
- How was this making you feel, what effect was it having on you/your performance?
- Did you try to manage these feelings?
- How were you feeling after trying to manage this emotion?

Formal Interview Guide

Introduction: Before beginning each interview I will remind the players that everything they tell me is confidential and they can stop the interview at any time. They can also choose not to answer questions if they don't want to. I will also remind them that there are no right or wrong answers and I am just interested in what they have to say. I will ask them if they have any questions before we start the interview.

Introductory questions

Now that you have had a chance to reflect on your matches at the tournament, how are you feeling about it?

- Overall experience -positive, negative?
- Did you meet your expectations?
- How are you feeling about your performances?
- Do you feel differently about the matches compared to your initial reaction?

Main questions

- 1. Thinking about all your matches what were the main emotions you experienced this week?
- Probe for both positive and negative emotion examples
- 2. What do you think are the main reasons you experience these emotions?
- Probe for examples that match up with the different emotions.
- 3. What are the main strategies you use to try and cope with the situation leading to your emotions?
- Probe for examples that match up with the different emotions.
- How effective did you find these strategies? (e.g., do they work?)
- 4. Do you feel like your emotions changed match to match?
- Probe for reasons why, how that impacted their performance.
- 5. Now we are going to review each of your matches from the tournament (using the video or the notes from the observation).
- Do you feel there were any key moments in this match the influenced your emotions?
- Probe for positive and negative emotions
- What factors do you think influenced these key moments?

Repeat these questions for second and third set as necessary.

- 6. Now that your match is over how are you feeling about it?
- Probe for positive & negative emotional experiences.
- -What factors influence these feelings?
- -What are you trying to do to manage this? (if necessary)
- Do you have any expectations for your next match? (dependent upon result).
- 7. If you could play the match again would you do anything differently?
- Overall- preparation, proactive, reactive?
- Probe regarding any factors that may improve performance.

Summary Questions

- 1. Overall, what were the main emotions you experienced during your match today?
- 2. What were the main reasons you think you were experiencing those emotions?
- 3. What were the main things you did to try and cope with the emotions you were experiencing?

Thanks for chatting. That's all my questions for now. Is there anything else you'd like to tell me?

- -What did you try and do to deal with your emotions in these moments?
- 6. Based on these key moments and the moments in the video/notes, the following questions will be asked:
- In this situation (give example): how were you feeling?
- What do you think was causing you to feel like this? (probe this question to try and get to the underlying reasons)
- Did you do anything to try and cope with this emotion? (Try and make it go away?)
- Did it work? If it didn't work did you try something else?

These questions will be repeated for all the main instances from each of the matches.

Summary questions

- 1. Can you summarise for me your emotions throughout the tournament and how you felt your emotions changed throughout the tournament (coping- effective or not?)
- 2. How are you feeling about your tennis now?

Thanks for chatting. That's all my questions for now. Is there anything else you'd like to tell me?