Psychological states underlying excellent performance in professional golfers: "Letting it happen" vs. "making it happen"

Christian F. Swann  
*University of Wollongong, cswann@uow.edu.au*

Richard J. Keegan  
*University of Canberra, richard.keegan@canberra.edu.au*

Lee Crust  
*University of Lincoln*

David Piggott  
*Leeds Beckett University*

Publication Details  

Research Online is the open access institutional repository for the University of Wollongong. For further information contact the UOW Library: research-pubs@uow.edu.au
Psychological states underlying excellent performance in professional golfers: "Letting it happen" vs. "making it happen"

Abstract
Objectives: In this study we aimed to better understand the occurrence and experience of flow in elite golf. As flow is more likely to occur during peak performances, and for elite athletes, our objectives were to: (i) identify golfers who achieved exceptional performances (e.g., winning a professional tournament), and (ii) explore if and how they experienced flow within that performance. Design: Mixed-method multiple case study. Method: Participants were 10 professional golfers (M age = 30; SD = 9.9). Performance data and participant observations informed semi-structured interviews which took place as soon as possible after an excellent performance (M = 4 days). Data were interpreted using within-case then cross-case thematic analysis. Results: These golfers reported that they experienced two different psychological states during their excellent performances. These states were described as: (i) "letting it happen" which corresponded with the definition and description of flow; and (ii) "making it happen" which was more effortful and intense, involved a heightened awareness of the situation, and therefore differed to flow. Both states occurred through different processes, and "letting it happen" was a relatively gradual build-up of confidence, whereas "making it happen" was a more sudden stepping-up of concentration and effort. Conclusion: These findings are discussed in relation to existing literature on flow and related optimal psychological states in sport. Recommendations are then made for future research into the experience and occurrence of both states reported in this study.

Keywords
excellent, underlying, making, vs, happen, letting, states, golfers, psychological, professional, performance

Disciplines
Education | Social and Behavioral Sciences

Publication Details

This journal article is available at Research Online: http://ro.uow.edu.au/sspapers/2411
Psychological States Underlying Excellent Performance in Professional Golfers:

“Letting it Happen” vs. “Making it Happen”

Christian Swann a, Richard Keegan b, Lee Crust a, David Piggott c

a University of Lincoln; b University of Canberra; c Leeds Beckett University

Author Note

Christian Swann and Lee Crust are with the School of Sport and Exercise Science, University of Lincoln, Brayford Pool, Lincoln, LN6 7TS, UK; Richard Keegan is with the Research Institute for Sport and Exercise, University of Canberra, Canberra, ACT 2601, Australia; David Piggott is with the Carnegie School of Sport, Leeds Beckett University, Leeds, LS1 3HE, UK.

Correspondence concerning this article should be addressed to Christian Swann, School of Sport and Exercise Science, University of Lincoln, Brayford Pool, Lincoln, LN6 7TS.

Email: cswann@lincoln.ac.uk; Telephone: (+44) 1522 886 030.
Highlights

• Mixed-method data were collected from professional golfers’ excellent performances

• Two distinct psychological states were reported to underlie these performances

• “Letting it happen” corresponded with the description and definition of flow

• “Making it happen” was more effortful and intense, and therefore different to flow

• Both states occurred through separate processes and goals, which are described
Abstract

Objectives: In this study we aimed to better understand the occurrence and experience of flow in elite golf. As flow is more likely to occur during peak performances, and for elite athletes, our objectives were to: (i) identify golfers who achieved exceptional performances (e.g., winning a professional tournament), and (ii) explore if and how they experienced flow within that performance.

Design: Mixed-method multiple case study.

Method: Participants were 10 professional golfers (M age = 30; SD = 9.9). Performance data and participant observations informed semi-structured interviews which took place as soon as possible after an excellent performance (M = 4 days). Data were interpreted inductively using within-case then cross-case analysis.

Results: These golfers reported that they experienced two different psychological states during their excellent performances. These states were described as “letting it happen” which corresponded with the definition and description of flow, and “making it happen” which was more effortful and intense, involving a heightened awareness of the situation and therefore differing to flow. Both states occurred through different processes, and “letting it happen” was a relatively gradual build-up of confidence, whereas “making it happen” was a more sudden stepping-up of concentration and effort.

Conclusion: These findings are discussed in relation to existing literature on flow and related optimal psychological states in sport. Recommendations are then made for future research into the experience and occurrence of both states reported in this study.

Keywords: clutch performance; elite athletes; flow; peak performance.
Psychological States Underlying Excellent Performance in Professional Golfers:

“Letting it Happen” vs. “Making it Happen”

Positive psychology emphasises the study of optimal human functioning, with key themes including the fostering of excellence, exceptional performance, and positive subjective experiences (Seligman & Csikszentmihalyi, 2000). Indeed, a primary goal for many sport psychology practitioners and coaches is to help athletes achieve optimal levels of performance, and to do so more consistently (Harmison, 2011). One valued subjective experience of particular interest to positive psychologists is flow: a harmonious and intrinsically rewarding state characterized by intense focus and absorption in a specific activity, to the exclusion of irrelevant thoughts and emotions, and a sense of everything coming together or clicking into place, even in challenging situations (Csikszentmihalyi, 2002). Flow has frequently been associated with a range of positive outcomes such as elevations in well-being (Haworth, 1993), self-concept (Jackson, Thomas, Marsh & Smethurst, 2001), and peak performance (Jackson & Roberts, 1992). This intersection of peak experience and peak performance means that flow is extremely relevant, and highly sought after, in sport. Therefore, understanding the nature of flow and its occurrence has great potential for athletes, coaches, practitioners, and researchers, for example, in terms of how these states may be experienced more often. In this study we aimed to better understand the occurrence and experience of flow in elite golf by interviewing players within a week of an exceptional performance (e.g., winning a professional tournament) to obtain more recent, specific, and detailed data of these optimal states.

Flow States in Sport

Current understanding of flow in sport is commonly derived from Csikszentmihalyi’s (2002) conceptualisation of the experience as nine dimensions. Three dimensions are proposed to be conditions through which the experience occurs (Nakamura & Csikszentmihalyi, 2002), namely: challenge-skill balance (a balance between high perceived skills and demands in the situation); clear goals so that one knows exactly what to do during
the performance; and unambiguous feedback about the progress that is being made. The other six dimensions are suggested to be characteristics which describe what the experience is like (Nakamura & Csikszentmihalyi, 2002): action-awareness merging (deep involvement leads to automaticity and spontaneity); concentration on the task at hand (complete focusing of attention); loss of self-consciousness (concern for the self disappears and the individual becomes absorbed in the activity); sense of control (e.g., over the performance); time transformation (i.e., either slowing down or speeding up); and autotelic experience (the experience is perceived as enjoyable and intrinsically rewarding).

However, despite over 20 years of research in sport, these experiences remain elusive, rare, and unpredictable (e.g., Chavez, 2008). Indeed, flow has been described as one of the least understood phenomena in sport (Jackson & Csikszentmihalyi, 1999). As a result, there have been calls for better understanding and explanation of flow in order to help athletes achieve its performance-based and psychological rewards (Author 1 et al, 2012, in press).

A range of quantitative (e.g., Koehn, Morris, & Watt, 2013) and qualitative (e.g., Chavez, 2008) studies have investigated how flow occurs in sport (see Swann, Keegan, Piggott & Crust, 2012 for a review). In particular, qualitative methods (i.e., semi-structured interviews) have been used to gain rich descriptions and insights into athletes’ perceptions regarding the factors involved in flow occurrence. Ten factors have been identified as facilitating, preventing, and disrupting flow across a range of sports: focus, preparation, motivation, arousal, thoughts and emotions, confidence, environmental and situational conditions, feedback, performance, and team play and interaction (see Author 1 et al., 2012a). In their positive form, these factors facilitate flow. However, if they are absent (e.g., preparation) or inappropriate (e.g., arousal, focus), they can prevent the experience. Further, if certain factors develop in their negative form (e.g., inappropriate focus, loss of confidence) during the experience, then flow can be disrupted. While this approach has yielded important insights
into factors influencing flow, most understanding of how flow occurs in sport is based upon associations rather than explanation (Author 1 et al, in press).

To date, these qualitative studies have mainly employed career-based interviews which seek the athlete’s general understanding and awareness of flow throughout their career. While such interviews can obtain rich descriptions, this method has been criticised because it relies on memory of events which may have occurred years in the past (cf. Jackson & Kimiecik, 2008). The career-based nature of these interviews means that athletes’ accounts can be subject to forgetting details (Yarrow, Campbell & Burton, 1970) or biased recall of their experiences (e.g., the ‘rose-tinted glasses’ effect; Brewer, Van Raalte, Under, & Van Raalte, 1991).

In response to the limitations of career-based interviews, researchers identified the need to develop methods that can capture more detailed, recent, and trustworthy description of participants’ mental states in order to enhance the possibility of generating important information about these experiences (Csikszentmihalyi & Csikszentmihalyi, 1988). The Experience Sampling Method (ESM; Csikszentmihalyi & Larson, 1987) was developed to collect ‘experience-near’ data of flow, that is, data collected in real-time or soon after the experience. Although the ESM has been employed successfully in other domains (e.g., Hektner, Schmidt & Csikszentmihalyi, 2007), it has limited practicality in most sports - especially in competition (see Jackson & Kimiecik, 2008). Questionnaires have also been used to capture recent data on flow, such as the Flow State Scale-2 which is designed to be administered soon after a performance, and Dispositional Flow Scale-2 which measures the frequency with which athletes experience flow (Jackson & Eklund, 2004). While this approach has been used extensively, such questionnaires lack the rich, detailed data that interviews can provide – especially regarding how flow occurs in specific performances.

Conversely, in a leisure context, Houge Mackenzie, Hodge and Boyes (2011) obtained recent
data on flow by conducting stimulated-recall interviews using footage obtained from head
mounted cameras during river surfing. Although it is not possible to use head mounted
cameras in many competitive sports, it is important to note that they interviewed participants
on the same day as the event to maximise recall (see also Houge Mackenzie & Kerr, 2012).
This approach is promising in terms of collecting recent data about flow experiences while
maximising richness and depth through the use of event-focused interviews.

The flow-peak performance relationship suggests that athletes who achieve
outstanding results in competition are more likely (although not guaranteed) to have
experienced flow (Jackson & Roberts, 1992). The elite level also presents opportunities to
identify exceptional performances due to well-publicised competitive events (e.g., with
results available online), and highly skilled athletes are suggested to be more likely to
experience flow (Jackson, 1996). Therefore, by identifying exceptional performances in elite
sport, it could be possible to purposively sample athletes who are more likely to have recently
experienced flow. These athletes could then be interviewed about that specific experience in
order to obtain “experience-near” data of flow, and reduce/avoid the possibility of collecting
data about events which may have occurred up to years in the past (as can be the case in
career-based interviews). This event-focused approach would arguably aid recall (Reis &
Gable, 2000), reduce the limitations of career-based interviews and generate more
trustworthy data. This approach could also lead to new insights into flow, such as the
chronological sequence of its occurrence - which Pentland (1999) considered to be a “key
organising device” in developing an explanation (p. 712).

Furthermore, the individual, self-paced, and stop-start nature of golf (Singer, 2002)
means that golfers can recall the shots they hit as well as their thoughts and emotions during
the periods of time between shots. Thus, golfers are in a good position to reconstruct
performances in sequence and detail compared to athletes from other activities (e.g.,
externally-paced or team sports). While flow in golf has previously been explored in elite
(Author 1 et al, 2012b, 2014, in press) and recreational players (Catley & Duda, 1997), no
studies have yet employed such an event-focused approach. Therefore, in this study we aimed
to purposively sample elite golfers after exceptional performances and interview them as
soon as possible after the event to identify whether the players had experienced flow in that
specific performance, and if so, to explore their perceptions regarding its occurrence. In turn,
we sought to maximise the accuracy and detail of data on flow occurrence, address
limitations of the traditional interview approach, and answer calls for refined methods for
studying flow in sport (Jackson & Kimiecik, 2008).

Method

Design and Approach

This study was grounded in a critical realist ontology (Easton, 2010). Critical realism
implies the triangulation of multiple data sources, as a form of retroduction, moving from
empirical experiences to hypothesise and test underlying causal mechanisms, which are
emergent in nature (Downward & Mearman, 2007). Furthermore, explanation lends itself to
the in-depth study of a few cases or a relatively small sample of individuals, and to forms of
data that retain the chronological and contextual connections between events (Maxwell,
2012). Generally, case study research provides rich, empirical descriptions of particular
instances of phenomena with emphasis on the real-world context in which they occur (Yin,
2014), and is useful for answering ‘how’ and ‘why’ questions (Schwandt, 1997). Multiple-
case studies enable comparisons that clarify whether findings are simply idiosyncratic to a
single case or consistently replicated by several cases (Stake, 2006). These comparisons
facilitate broader exploration of research questions with the potential to yield more robust,
testable findings (i.e., in comparison to single-case studies; Eisenhardt & Graebner, 2007).
Therefore, we based this study on a multiple-case study design to explore how and why flow
occurred in specific, recent golf performances. This design enabled us to use within-case
analysis which retained chronological and contextual detail in each case, as well as cross-case
comparisons to identify patterns and consistencies in the participants’ experiences (see
Analysis). Furthermore, a key principle in case study research is the use of multiple data
sources (Yin, 2014), and we employed a mixed-method approach in order to collect richer
and stronger evidence than could be achieved using one method alone (Moran, Matthews &
Kirby, 2011).

Participants

Participants in this study were 10 male professional golfers¹ (see Table 1). Stake
(2006) recommended that multiple-case studies should employ between four and 10 cases to
optimise the benefits of this approach. Four players had competed full-time on the European
Tour² (\(M = 8\) seasons; range = 1-23), of whom two had won European Tour events. Two
players had competed full-time on the Challenge Tour (\(M = 6\) seasons), with nine Challenge
Tour wins between them. Two participants had previously won tournaments on the Europro
Tour (\(n = 4\)), and one player was formerly the number-one ranked amateur golfer in the
world. Therefore, these participants were considered to be ‘competitive-elite’ and
‘successful-elite’ athletes based on the criteria outlined by Swann, Moran and Piggott (2015).
Male participants were sampled because the authors had more access to men’s tournaments
than those on women’s professional tours (see below).

Definition and Bounding of Cases

¹ Note: Two participants had outstanding performances in two separate tournaments and were therefore
interviewed twice. Thus, 10 participants were involved in the study but 12 interviews took place.

² The European Tour is the highest standard of professional golf in Europe and one of the major tours worldwide
involving world-class playing standards (www.europeantour.com). The Challenge Tour is the second tier of
professional golf in Europe, used as a training ground for promotion to the European Tour. The Europro Tour is
the third tier of professional golf in Europe through which players can graduate to the Challenge Tour
(www.europrotour.com). The Senior Tour is the main tour for competitors over 50 years of age in Europe.
The cases of interest were specific and recent flow states experienced by elite golfers. Due to the elusive nature of these states, we sought to maximise the likelihood of capturing recent accounts of flow by pursuing certain criteria which bounded the cases (Yin, 2014). First, flow was more likely to be experienced during peak performances due to the close association between these two constructs (e.g., Jackson & Roberts, 1992). Therefore, we considered the final group (i.e., leaders) in the last round of professional tournaments to have the best chance of winning the event and in turn were more likely to achieve a peak performance. Being in contention to win was also expected to present the challenging conditions that produce flow; while players who shot the lowest score of the day or tournament were considered more likely to have performed close to (if not at) their peak. We judged performances satisfying these criteria to be suitable for data collection (see Table 1 for case selection rationale for each player). While these assumptions did not guarantee the identification of flow, they represented the most predictable situations in which flow was likely to occur within a tournament.

**Recruitment**

To recruit participants, the first author attended 11 tournaments on the European Tour (i.e., Final Qualifying for The Open), Challenge Tour, Senior Tour, and Europro Tour. These tournaments were chosen based on playing standard and access (i.e., location). Men’s tournaments were sampled because no women’s events at a comparable standard were easily accessible during the data collection period. The lead investigator attended tournaments until the intended total of 10 participants was sampled (in accordance with Stake, 2006). Of the eleven tournaments attended, a player from the final group won in seven of the events and these players were approached after the round with an invitation to take part in the study. For the remaining five interviews, the researcher monitored leader boards to identify other players who had achieved similar outstanding performances (e.g., the lowest round of the
tournament). Four players were approached in person after the round, and one was contacted through his management agency. When approaching players, the researcher explained the purpose of the study and asked if they would be interested in being interviewed about their performance in that tournament.

Data Collection

Ethical approval for the study was granted by an ethics committee at a British university. We employed mixed-methods in this study to obtain a more in-depth account of the performances which were deemed most likely to be conducive to flow by using: (i) direct observations; (ii) performance data; and (iii) interviews. In keeping with principles of case study research, information was collected from these multiple sources with the aim of corroborating findings (Yin, 2014). In this study, corroboration referred to whether the player had experienced flow, and if so, at what specific stages of the performance it occurred (e.g., specific shots or holes). We used the observation and performance data for each player to develop individualised probes within semi-structured interviews, which were then used as the primary data source.

Direct observations. At each tournament that the lead author attended, the last group, which typically comprised of two players (i.e., the leaders), was observed for the final round on the assumption that those players were most likely to win and therefore experience an exceptional performance. In these direct observations we sought to understand the context of each golfer’s performance by focusing on factors such as their behaviour, weather conditions, shot/hole difficulty, potential distractions (e.g., crowds), and the actual shots they hit - all of which could influence the likelihood of the player winning and/or experiencing flow. The observations were collected as verbal field notes recorded via Dictaphone while the lead

---

3 Examples of the observation transcripts, performance data, and individualised interview schedules are available from the lead author upon request.
author followed each group. Through these observations the researcher was able to identify key incidents, reflections, and questions from the performance which could be explored during interviews. These field notes were later transcribed and analysed.

**Performance data.** A performance monitoring tool was developed for this study (see supplementary data) which we used to: (i) record each shot taken by the players during their round; (ii) log the performances and act as a reminder for the researcher afterwards; and (iii) indicate peaks and troughs in the player’s performance which may have represented periods when they may have been in, or closer to, flow. These data were collected during the performance in addition to the verbally-recorded observations (above), and were also used to develop player-specific probes. Furthermore, available scores and statistics were collected from score boards and websites (i.e., from each tour) after the performance. These were used primarily for players who could not be observed directly (e.g., players who won but were not in the final group).

**Interviews.** To develop a deeper understanding of the observation and performance data, we used interviews to gain an account of the performance from the player’s perspective. These interviews were conducted as soon after the performance as possible, while still ‘fresh’ in the participant’s memory (range = same day to 7 days later; $M = 4$ days). We employed a semi-structured approach to allow participants to elaborate and develop areas of perceived importance. While addressing general themes, specific probing questions were prepared for each player based on the other data sources, such as “Can you describe what it was like to be five under par through seven holes?” Further, the interviewer adopted a conversational and open-ended approach in order to develop rapport and allow new themes and discussions to emerge (cf. Potter & Hepburn, 2005). Before the interview began, the researcher encouraged players to challenge and clarify any assumptions or terminology used which did not correspond with their experiences.
First, flow was introduced and defined using the procedure used within recent research on flow in elite golf (Author 1 et al., 2014, 2015). Players were asked if they were familiar with the term flow, and to provide an example of such a state which stood out in their memory. The interviewer then judged whether or not they were referring to flow (as defined by the research team). All examples from these players were judged to refer to flow, and after establishing familiarity with the concept, they were asked if they had experienced the same state during the recent performance for which they were sampled. Seven participants reported that they had experienced flow in that performance, and were then asked to describe the state which was again compared to the definition employed by the research team (above). All of these descriptions used terminology which corresponded with previous descriptions of flow, referred to specific dimensions of flow, and were therefore deemed relevant to the study.

Then participants were asked to: (i) specify at which stage in the round/tournament it occurred and how long it lasted; (ii) describe the shots and holes before, during, and after the period in which flow was identified; (iii) and discuss what they were thinking and feeling before, during, and after the flow state. If the player did not report experiencing flow, they were asked to describe the performance and reflect on why flow had not occurred (e.g., by making comparisons to the example they drew upon at the beginning of the interview).

Specific probes were used to encourage these reflections, such as “what would have needed to happen at that point for flow to occur?”

The interviews were conducted which mainly took place in the clubhouse of the player’s home golf club. All participants provided written consent after the researcher.

---

4 This definition was based upon awareness of those used by researchers previously (Jackson & Csikszentmihayi, 1999), definitions used in previous studies (Jackson, 1995, 1996), and athletes’ quotes describing flow in previous research (Author 1 et al., 2014; Jackson, 1996).
explained the purpose of the study. Interviews were conducted face to face and lasted, on average, 61 minutes ($SD = 14.9$). Each interview was digitally recorded and was later transcribed verbatim, while brief notes were also taken.

**Analysis**

A team approach, employing all four authors, was used to guide the analysis. Data were analysed using a two-stage process as recommended in multiple-case study literature (e.g., Stake, 2006). First, within-case analysis was conducted to become familiar with each case as a stand-alone entity, which allowed the unique patterns of each case to emerge (i.e., regarding how flow had occurred for each player individually; Eisenhardt, 1989). The first author, who collected the data, enhanced his familiarity with it through a process of “in-dwelling” (e.g., by reading and re-reading the transcripts; Maykut & Morehouse, 1996).

Preliminary analysis of the observation and performance data was conducted to develop player-specific probes for the interviews. This process involved identifying key stages of each player’s performance, or events (such as a good shot or holed putt) which could have influenced flow occurrence. After the interviews were conducted, the transcripts were then searched for quotes which described the experience of flow, and key events or factors during the performance which led to its occurrence. By triangulating against the observation and performance data, it was possible to note the specific stage in the round at which those events/factors occurred (e.g., which hole the player was on) in order to understand the chronological and contextual connections between those events which produced flow (Maxwell, 2012). Detailed write-ups were made for each case, in which the relevant quotes were used to generate initial codes (see Braun & Clarke, 2006).

Once the data for each participant, and their individual accounts of flow (or its absence) had been collated, cross-case analysis was conducted (Stake, 2006). This process forces researchers to search for similarities and differences between cases in order to
recognise patterns and relationships among constructs (Eisenhardt & Graebner, 2007; Stake, 2006) – in this case, consistencies in the occurrence and experience of flow. Specifically, the write-ups for each case were compared to identify similarities and patterns, that is, the extent to which the same codes were present, and whether they occurred in a similar order. This process revealed consistent factors (i.e., themes) involved in the occurrence of these states, as well as the specific sequence in which they were present (see Results). Consistent codes were categorised and defined as higher-order themes which represented the players’ experiences and the processes through which they occurred. Finally, those themes were reviewed for consistency and transparency (e.g., using the trustworthiness processes outlined below; see Braun & Clarke, 2006). The players are referred to by randomly chosen pseudonyms.

Quality and Trustworthiness

Various approaches have been proposed to judge the quality and authenticity of case study research (e.g., Yin, 2014; Stake, 1995). Generally, the term trustworthiness has been used by qualitative researchers to describe methods aiming to ensure quality in their work and as this case study was based primarily on qualitative data (i.e., the interviews), a number of steps were taken to establish trustworthiness according to Bassey’s (2003) checklist. First, observing participants before conducting interviews enabled prolonged engagement with the performance of interest during data collection, and by continuing this process for 10 participants (the maximum for this research design according to Stake, 2006), we attempted to achieve persistent observation of emerging issues. In addition, we used triangulation of data in an attempt to corroborate findings (e.g., whether the participant experienced flow) and develop more specific/analytical questions within the interviews through individualised probes. Through these individualised interviews we attempted to obtain a thorough account of the player’s experience, which is conveyed using direct quotes below. An audit trail was also used to record instrument development (e.g., for the monitoring tool), data collection,
triangulation, and interpretation of data. This audit trail was reviewed by two independent
researchers who had extensive experience in qualitative and mixed-methods research. These
researchers agreed that the study’s inferences were logical, that the findings were grounded in
the data, and that the study followed suitable processes.

*Peer debrief* was also conducted throughout the study, in that the second, third and
fourth authors provided on-going guidance on the research process, reviewed data, and
challenged the researcher’s assumptions (Creswell & Miller, 2000). For example, a number
of conversations debated the best way of coding themes, as well as the most suitable labels
for these themes (i.e., did the label accurately reflect the content?). This process took place
via formal meetings between all members of the research team, and regular informal
discussions with each member. While peer debrief was concerned primarily with the on-
going process of collecting and analysing the data, participant reflections were sought to
critique and provide feedback about the *results* of these processes (Maxwell, 2012). Engaging
in dialogue with the participants was seen as an opportunity for elaboration, affirmation, and
disagreement, in order to enhance credibility. This dialogue centred on the fairness,
appropriateness, and believability of the researchers’ interpretations of the data and analysis
as a form of member-checking (Maxwell, 2012). Participants were provided with their
verbatim transcript and a copy of the preliminary analysis. They were asked if the themes and
categories made sense, and whether the overall account was realistic and resonant with their
experiences. Due to elite nature of this sample, who were often in the country for short
periods with busy schedules, this process took place via email. No modifications to the results
or analysis resulted.

**Results**

In this study we aimed to better understand the occurrence and experience of flow in
elite golf by interviewing players within a week of an exceptional performance in order to
obtain “experience near” data. These players reported experiencing two different psychological states during their excellent performances; although they used similar terminology to describe their experiences (e.g., referring to both states as “the zone”; see Table 2). Martin was conscious of, and able to distinguish between both states: “It’s the same zone but it’s a different mind-set… One of them is a more relaxed state of mind than a more intense ‘[being] in the zone’… but they’re both as good as each other.” These states were described as “letting it happen” and “making it happen”, as illustrated by Jack: “Sometimes what they say is “just let it happen”… getting your mind to where it doesn’t hurt you; to where it doesn’t think… [and] it doesn’t have the questions… But then… sometimes I’ll say “let’s make it happen” where it ups your focus”. Specifically, six players reported experiencing letting it happen while four described making it happen. One golfer did not report either state, and two players only reported micro-states (i.e., only for one shot, or in one aspect of their game; see Table 2). Furthermore, each of these states occurred through different processes. In the following sections we describe the occurrence and experience of both states, before they are compared in terms of similarities and differences.

“Letting it Happen”: Flow State

**Occurrence.** The state of “letting it happen” closely resembled previous descriptions of flow (see Table 3). This state was described by quotes such as: “I just relaxed and let it happen instead of forcing the issue” (Martin), and its occurrence was summarised by Jack:

You get so focused on the process and staying in the present and focusing on what you want to do with the golf ball, then that can help you click into it… You start hitting some good shots… and your confidence rises up a little bit… And when you have that confidence you can just get in the zone and start making everything… it’s just a ton of confidence.
Flow occurrence began with a positive event in the performance, such as holing an important putt, making a birdie, hitting a good shot, or getting a good feeling in their swing: “you hit one [shot] and something clicks and you know that’s what you should do every time… I just knew after that one [shot] that this is what feels good today and I was able to reproduce that for the rest of the round” (Shane). The players’ confidence increased after this positive event which, in turn, helped them produce a similarly good result in their next shot. By repeating this cycle, the players developed confidence and momentum, including David: I stepped up… [to] my first tee shot of the day, and striped it down the middle. That was it; that was my confidence back with driving because I knew if I could do it once I could repeat it again and again. And then… I made a good up and down… on my third hole… so I felt my chipping and short game was good. Then… I holed the putt on my fifth or sixth hole for birdie, so “okay, the putter’s going well”… [That] was kind of how it builds up… It’s like it snowballs… your confidence grows and grows. The process above continued until the players became totally confident in their game and in how the performance was progressing. For example, in reference to the quote above, David described that “all of a sudden it’s like ‘well my game feels good!’” Similarly: I was just confident in pretty much everything… It was kind of a feeling like “well there’s not really too much in my way right now, everything’s going my way,” and I just felt like I can shoot the lights out… My swing was beginning to feel good and… I liked the holes coming up, I knew I could play well (Alex). This perception also seemed to involve an awareness of what a “good score” was, and the player’s potential to reach it. In turn, this involved a sense of exceeding certain expectations: There’s a point when you can go like four under, five under for the round which a lot of people are going to shoot; once you start going six, seven (under) then not a lot of people are going to get up there (Ian).
Once the players reached this point of total confidence, and were aware that they could perform well, they appraised the situation to be a challenge. For example, David reported how “that’s when you start sort of challenging yourself”, and Alex described that “I wanted to keep making sure I did the right things... I really wanted to try and... test yourself [sic] in a way, you know, challenge yourself to do it in the most pressure-packed situation”. After they perceived the situation to be challenging, these players pursued open-ended goals which did not have a fixed outcome. To illustrate, Alex reported that: “I’m at the top [of the leader board]; all I’m thinking about is... trying to go forward, trying to get further in front... It’s the kind of one-sighted vision that I had to go further ahead.” Similarly, “I was just trying to get it [my score] lower, trying to hit it closer and hole the putts... I just saw going lower, keep going lower” (Martin).

**Experiencing Flow.** Being totally confident and pursuing challenging, open-ended goals led these players into flow. Interestingly, Martin described being aware of the point at which he entered flow during this process:

I was three under [par] after nine [holes], and then... [hit] a really good second shot in close, and... walking up to the green, seeing it sort of 4 feet away, I was kind of walking into that sort of zone where I was just playing, just relaxed and playing.

Similarly, the players described positive feedback with phrases commonly associated with flow, such as feeling like “nothing can go wrong... you feel things going your way” (Alex), and “everything seems to fall into place” (Lee). The players also reported a relaxed concentration on the task at hand: “I think it’s just something that happens naturally... I’m concentrating aren’t I, that’s for sure - you can’t be in the zone and not concentrating - but it’s just something that seems to happen” (Lee). These players also experienced absorption in the performance:
All we carried on doing was just trying to take one shot at a time… the same routine for every single shot: stood back, picked the yardage, picked the club, picked the shot, picked the target again, hit the shot… I've come off the 18th, looked at my caddy and said “what score have I shot?” Because I didn’t know… I just knew I made a birdie, made a par, made another birdie, but never added it up… I was like “How are we doing?”… and he’s like “yeah, we’re doing all right, we’re leading!”

The players described altered cognitive and kinaesthetic perceptions, including tunnel vision, feeling stronger, and feeling less tired afterwards, as well as absence of negative thoughts: “I didn’t have any negative thoughts – everything I saw was positive” (Martin). Other main themes included being calm/relaxed (“you’re comfortable, you’re calm, you’re relaxed”; Lee), as well as sense of control, automaticity and a sense of ease/effortless performance, time transformation, and enjoyment (see Table 3).

“Making it Happen”

Occurrence. The second state was characterised by quotes such as: “[when] you have no choice… If you’re going to win you have to shoot this score” (Jack), and “when you’re fully... aware of what the situation was... [and being in] control of the situation” (Nick). Oliver described what this state was like: “when the pressure’s on, when I’m in the heat of battle…and when I get that feeling inside me, that’s when I play my best golf...all I feel is different is that it really matters.” The occurrence of this state began with the player becoming aware of the situation that they were in and realising what was required of them. For example, they described: “realising you’ve only got a two shot lead… with two [holes] to play” (Oliver); and “It’s the evaluation of the situation… I walked towards the tee and saw that leader board and knew the situation… I saw I was one clear and... then I knew my job” (David). This realisation commonly occurred after the player saw a leader board, but could also occur through their own reflections: “Walking to the [next] tee, it just dawned on me that
I was seven under and I had three holes to play, and... that’s when it kicked in and I thought “this could be my best ever score” (Ian).

After becoming aware of the situation, the players identified structured, fixed goals that they needed to pursue in order to achieve the desired outcome. For example, Oliver reported that: “There’s only two shots between me and the next guy, so now there’s a goal there, to finish with two pars... There was like a target at the end that you had to produce.”

These goals were very specific in that they involved a fixed outcome (e.g., winning the tournament), with definite requirements in order to achieve them (e.g., making two pars), which were usually over a certain period of the performance (e.g., the final two holes): “I knew the job, if I finished par, par, par, I was going to win the golf tournament. So that was... like the mini-goal I then gave myself... and I did win the golf tournament” (David).

Furthermore, these goals were usually imminent, in that they became important at the end of the round or tournament.

Awareness of the situation and fixed goals led to a challenge appraisal for these players: “I only had three holes left of the tournament to play... the three [most] important holes... This was it, this was my time now. This is where I can win” (David). These appraisals occurred even when such reactions seemed unlikely. For example, one player double-bogeyed the 15th hole when leading in the last round of a tournament, yet:

I evaluated the situation... If someone said to you “you’re leading by one... with three holes left to play to win a golf tournament”, you’d take that every day of the week... So what bad thing could I possibly have to think about at that point?... I genuinely couldn’t lose. And the reason I felt like that is because I had the belief in myself... I had the ability to be able to assess the situation properly... [and] came to a logical conclusion, which was [that] I was one shot clear (David).
Hence, a key factor influencing these challenge appraisals was the golfers’ confidence that they could meet the challenge they were facing and, in turn, achieve their goal. Indeed, Jack described how self-talk was helpful in maintaining such confidence under pressure:

I’d be like “okay let’s just hit this fairway, one shot at a time, let’s stay in the present, you can do this, just take it easy, calm it down, breathe, don’t worry about it, it’s just a golf shot, go execute it. You can do it”… Anything to add that little bit of confidence.

Subsequently, these players reported that their concentration increased in response to that challenge appraisal:

It’s the end of the round, end of the tournament, I’m leading by two… so I knew that I had to concentrate and be in the zone… to finish it off… That just made me step up the concentration and get me… more in the zone (Oliver).

Indeed, the players suggested that their concentration was at its height during this stage: “It definitely reached its peak… literally it was at its height… I don’t think I could have concentrated any more” (David).

**Experiencing “Making it happen”**. The resulting state was characterised by heightened focus towards the achievement of fixed goals, and more effortful concentration on the task at hand: “I made myself focus even more on that last hole... I was trying a little bit harder to be intense” (Ian). Indeed, participants described feeling intense and nervous during the experience: “[When it’s] closer to the end… that’s when I start thinking about it a little bit more I definitely get more nervous… It definitely intensifies” (Jack). This state was also reported to be purposeful and effortful: “I knew standing on the 17th I needed to finish birdie-birdie for second… [and] it felt like I was trying more to get in that zone” (Ian). David also reported being confident: “I… feel like I couldn’t hit a bad shot in that situation… I was in the moment, I could hit the shot, and I hit the shot. It’s as simple as that”. Indeed, the golfers
who experienced this state reported being intrinsically motivated, even in the final holes of
tournaments with the opportunity to win substantial financial (i.e., extrinsic) reward:

Even though I knew the importance of the shots, I couldn’t wait to hit [each] shot…
because I… wanted the satisfaction of hitting it out of the middle of the golf club,
hitting that perfect shot to the green. That’s what I was sort of striving for then, so it
wasn’t just about… winning the tournament, it was about hitting the perfect shots at
the time as well (David).

Absorption was also described as part of this state: “it just feels like I’m so focused and
nothing else is around me... it’s just me and the ball… that’s it, I don’t think about anything
else... nothing else was happening as far as I was concerned” (Ian). Altered cognitive and
kinaesthetic perceptions were also reported in terms feeling stronger, hitting the ball further,
and “everything around me is just a blur, I can’t hear or see anything else – it’s just me”
(Oliver). Indeed, David described loss of memory:

[I saw] a few of the pictures from the final hole [afterwards], and I was like “I can’t
remember any of that!”… The thing that really stuck in my mind was that… the
camera man was almost in my face… but I didn’t notice. [I] didn’t even notice the
camera man was there! [I] didn’t notice anything going on around me (David).

Furthermore, enjoyment of the experience, optimal arousal, and\textit{ time transformation}
(“looking back on it yeah it did go pretty quick”; Oliver) were reported, as was a sense of
control: “I just felt in control of everything… it felt like I had complete control of myself and
my emotions” (David; see Table 4).

\textit{“Letting it Happen” vs. “Making it Happen”: Similarities and Differences}

\textbf{Goals pursued}. A consistent difference between these two states (i.e., present in
every case), was the nature of the goals that the players pursued (see Table 5). When \textit{making}
\textit{it happen}, their goals involved fixed demands, time frames, and outcomes: “If I finished par,
par, par, I was going to win the golf tournament” (David). Conversely flow involved less
structured, open-goals, such as “trying to get further in front” (Alex). Therefore, making it
happen appeared to involve more structured and fixed demands (i.e., they either won or they
did not), whereas flow was more exploratory and self-referenced, involving a sense of ‘seeing
how well I can do.’

Performance context. The state that these players entered was influenced by
variables within the performance, such as the stage of the round, stage of the tournament, and
their position in the tournament. Making it happen occurred more suddenly, in response to
realising the demands of a situation, and players experienced this state towards the end of the
round. Conversely, letting it happen occurred more gradually and was reported to begin
during the early and middle stages of the round. Indeed, players articulated how the stage of
the round could lead to differences in their approach: “At the start of the round and during the
middle you’re just playing – see[ing] what it gives you” (Oliver).

For these players, making it happen occurred when they were trying to win (i.e., at the
end of the final round), whereas letting it happen was reported during all stages of the
tournament. To illustrate, the players perceived that each round of the tournament
encompassed its own objectives:

The first round… [you’re] just trying to shoot a decent score, give yourself a chance
in the tournament. Second round’s making the cut or pressing on, and then you’ve got
your [final] round where you’re trying to win or…finish as high as you can (Phil).

Furthermore, the players attached different levels of importance to the final rounds compared
to the last. For example, David reported that on “the first two days you can get yourself in
contention but you can’t actually win it then… (so) in all reality it doesn’t matter… the final
round is the time when you can win the golf tournament.” Similarly, the early rounds were
reported to be much more relaxed: “The first two rounds are so… relaxed… there’s no real
pressure... (I) just try and do what I can control and see how the score pans out really” (Phil).

As a result, the players explained that their concentration changed during the course of the tournament: “I was probably more focused on my own performance in the first and second [rounds], but then by the end of the tournament you’re more aware of your position” (Nick).

Such self-referenced focus was more conducive to *letting it happen*, whereas *making it happen* was more relevant at the end of the tournament when the players’ focus switched to the outcome and their position.

A final factor was the player’s position in the tournament, and in particular, whether or not they were in contention to win. In the final round these players reported that they tried harder: “you’re in contention to win the tournament, so yeah... you’re trying like hell!” (Lee). Similarly, Martin suggested that “there’s more pressure on winning as opposed to shooting nine under.” *Make it happen* was therefore more likely to occur once the player was in contention to win or achieve a personal best score, whereas *letting it happen* seemed to occur regardless of whether the player was in contention or not (again, because it was more self-referenced and less dependent on external factors). Figure 1 summarises the occurrence of each state relative to the performance context.

**Relationships with elevated performance.** All players reported performing at their peak during both states, including Lee: “to be in the zone you’ve got to be playing well, that’s the key... I think that’s the zone really, playing at your true potential.” Consistent differences emerged regarding the direction of the flow-performance relationship between states. When *making it happen*, the players reported “stepping up” their performance and “raising their game” to meet the demands of the challenging situation. The players’ response to those demands improved their performance - that is, the state led to improved performance:

In general play, I feel like if you hit a good shot... it goes roughly where you’re aiming, you’re fairly pleased... but when I’m fully concentrating [in the zone] I feel
that normally it goes exactly where I’m aiming… I just feel like my shots are so much
better. Even putting. (Oliver)

Conversely, flow occurred via a “build-up” of performing well (see above); that is, good
performance led to flow: “I played my way into the zone… You’ve got to that point by
hitting good shots” (Martin).

Discussion

In this study we aimed to better understand the occurrence and experience of flow in
elite golf by interviewing players within a week of an exceptional performance in order to
obtain “experience near” data. Rather than solely experiencing flow, the primary finding was
that these players experienced two different subjective states during their excellent
performances. “Letting it happen” corresponded with the definition and conceptualisation of
flow (e.g., Jackson & Csikszentmihalyi, 1999), and although some characteristics were
common to both states, “making it happen” appeared to be somewhat different to flow. In the
following sections we discuss these findings in relation to existing flow research, as well as
attempting to understand and conceptualise “making it happen” within the wider literature on
optimal psychological states in sport.

“Letting it happen”: Flow

*Letting it happen* was described as a calm state with a focus on the shot at hand,
absence of negative thoughts, perceptions of ease and automaticity in the performance, sense
of control, enjoyment, and feeling like nothing could go wrong. These themes correspond
closely to the common conceptualisation of flow (e.g., Jackson & Csikszentmihalyi, 1999).
These players also described a process through which this state occurred, which seemingly
involved a relatively gradual and consistent build-up with some broad overlaps with the flow
conditions (Nakamura & Csikszentmihalyi, 2002) in terms of high perceived challenge and
skills (i.e., build-up of confidence), positive feedback, and goals. It is important to note that
the goals for these players were very specific in that they encompassed the challenge of
discovery and exploration (e.g., “seeing how well I can do”). Therefore, it could be the case
that this specific type of goal is important for flow occurrence, and that the dimension “clear
goals” could be refined if these findings are supported elsewhere. Momentum also appeared
to be particularly important in the build-up of flow. This construct has previously been
identified as a facilitator of flow in elite golf (Author 1 et al, 2012b, in press), and the process
described in “letting it happen” displays similarities with Taylor and Demick’s (1994)
Multidimensional Model of Momentum which involves a “momentum chain” beginning with
a “precipitating event.” Therefore, this model may provide a useful template for flow
occurrence, and for these players, momentum emerged as an important condition for flow.

Flow is considered to be elusive and unpredictable, with most knowledge to date
based on factors facilitating or associated with its occurrence. The findings of this study have
contributed new and refined insights into the conditions for its occurrence, as well as
tentatively identifying a process through which it appeared to occur for these players. These
findings could therefore represent a step towards the development of an explanation for flow
in elite golf.

“Making it Happen”

The state described as “making it happen” shared a number of characteristics with
flow, including enjoyment, sense of control, absorption, and confidence. However in contrast
to flow, “making it happen” was described as a more intense state of optimal arousal, with
heightened and effortful concentration, and awareness of the situation (e.g., of the score and
position in the tournament). These characteristics do not resonate with common descriptions
of flow which is instead considered to be effortless, automatic, with little awareness of the
situation (Csikszentmihalyi, 2002; Jackson & Csikszentmihalyi, 1999). This state occurred in
situations similar to the definition of clutch performance, that is, when an athlete is aware that
they are performing in a challenging situation, care about the outcome, has the capacity to experience stress about that situation, and succeeds primarily due to skill (see Hibbs, 2010 for full definition and conceptual analysis). This definition of clutch performance focuses on the outcome rather than the subjective experience, and therefore may describe the conditions for “making it happen” but not the resulting subjective experience. Indeed, there appears to be scant qualitative descriptions of athlete’s experiences of clutch performance to date. Hence, “making it happen” does not appear to be fully described by flow or clutch performance.

Other researchers have explored the state of peak performance: an episode of superior functioning resulting in optimal performance outcomes that exceeded prior standards of performance (Privette, 1983). However, qualitative descriptions of peak performance refer to automatic, effortless execution of performance (Anderson et al, 2014; Cohn, 1991) which differs to the effortful, purposeful, and intense state described by these players. Therefore, “making it happen” does not appear to be fully described by peak performance either.

An alternative interpretation of these findings can be drawn from leisure and adventure activities, in which researchers have integrated the flow perspective with reversal theory (Apter, 2001). Houge Mackenzie et al (2011) qualitatively distinguished between paratelic flow states (playful and defined by the absence of salient and/or important outcome goals) and telic flow (more serious and characterised by the presence of specific, important outcome goals). Their participants’ descriptions of telic flow appear similar to “making it happen” in terms of optimal arousal (feeling calm yet energised), intensity, and heightened focus on the achievement of outcome goals. Therefore, one interpretation could be that “letting it happen” and “making it happen” are two different types of flow state. However, it remains that characteristics such as intensity, heightened awareness, and effortful performance do not appear to correspond with the definition or dimensions of flow according to Csikszentmihalyi, and therefore this interpretation could be questioned.
Regardless of the terms used to describe this state, it is important to note that a second subjective state appeared to underlie the excellent performances of these golfers. While flow provided one perspective on excellent performances in golf, “make it happen” also appeared to be highly relevant and important for this sample. These findings require testing and dedicated attempts at ‘falsification’ (Popper, 1959). However, if corroborated (e.g., across other activities) they could provide a refined understanding of the psychological states and processes underlying exceptional performances in sport.

**Comparing Both States**

In the present study, a consistent difference between both states was the nature of goals that the players pursued. These goals were similar to those reported in studies suggesting two types of flow (Houge Mackenzie et al, 2011) in that *make it happen* involved a fixed outcome, whereas *let it happen* was more exploratory with an absence of a fixed outcome. Indeed, when *letting it happen* the players reported pursuing goals which were self-referenced and challenging (e.g., “how well can I do?”), yet seemed deliberately avoidant of outcome. These open-goals differed from “do your best” goals (Locke & Latham, 2006) which do not encompass the exploratory element of “seeing how well I can do.” Therefore, these open-goals may warrant further exploration (e.g., in relation to creativity).

It could also be the case that different types of challenge are encountered within performances which require pursuit of these types of goal. For example, in his original work on flow, Csikszentmihalyi (1975) distinguished between activities that involve *creativity*, *problem-solution*, and *competition*. Indeed, Csikszentmihalyi suggested that challenges can be of two types: the challenge of the unknown, which requires discovery and exploration; and the more concrete challenge of competition. He argued that flow involves “a stretching of one’s self toward new dimensions of skill and competence” (1975, p.33) which again can be measured either: (i) against the boundaries of one’s own competence, or (ii) by competition.
Therefore, more specific conceptualisation of the challenge and clear goals dimensions of flow could help researchers better understand the nature of flow occurrence and the experience of “making it happen.”

It appears that the similarities and differences between cases were influenced by the performance context. The stage of the round, stage of the tournament, and player’s position in the tournament combined to influence the goals that they pursued (i.e., open or fixed) and subsequently the state that they experienced. Players were more likely to make it happen towards the end of their performance when an important outcome was at stake (e.g., winning). Conversely, flow was typically experienced earlier in the performance when there was more opportunity for momentum and confidence to build. Koehn and Morris (2014) examined performance context by comparing flow across training and competition; however with these findings we suggest that it is important to understand how the context within a specific performance (i.e., training or competition) can influence both flow and “making it happen”.

Methodological Discussion

It could be the case that ‘career-based’ interviews used previously have been unable to identify the subtle differences reported here. For example, athletes may have ‘blurred’ their recall of these states into description of one flow state, or researchers may have coded the data from both states as one type of experience. By adopting an event-focused approach, it was possible to collect data from flow states soon after they had occurred (ranging from the same day to one week later). In turn, the players were able to recall in detail the chronology of their performances and, in turn, the processes through which “letting it happen” and “making it happen” occurred. Therefore, in this study we have begun to answer calls for refined methods of studying flow in sport (Jackson & Kimiecik, 2008), and have generated insights into the nature of these states which, if supported elsewhere, could help build
towards an explanation of flow and “making it happen.”

Limitations and Future Directions

As with any study, there are limitations. In this study we have described the experiences of a specific sample of 10 elite male golfers. Single rather than repeat interviews were used with most participants, and it would have been valuable to conduct repeat interviews with all participants to explore other performances and possibly enable more critical discussion of the states identified (e.g., by making comparisons to other excellent results, or even average and poor performances). Research into the experiences of elite female golfers would add to these findings, while future studies could also explore different levels of expertise (e.g., recreational golfers) and different types of sport (e.g., fast-paced, team sports). Similarly, other research avenues could lie in individual differences and whether, for example, athletes are more or less likely to enter either state.

We also focused on the initiation and experience of these states, meaning that future studies employing an event-focused approach should explore issues such as their management/maintenance (Author 1 et al, 2014), disruption/prevention (e.g., Jackson, 1995), and restoration (e.g., Chavez, 2008). Furthermore, as a means of conducting event-focused interviews in future, researchers could track longitudinally a number of athletes (e.g., over the course of a season) who report flow after it occurs and can then be interviewed. This event-focused approach could be an alternative method to ESM in sport which is not as random or disruptive, yet enables access to more than just one performance/experience (e.g., via repeat interviews). Finally, while we have presented our interpretations of the data, others could have coded them differently and may have arrived at alternative conclusions. Further research will enable better understanding of these ideas, which could lead to applied recommendations concerning, for example, how athletes and coaches can prepare for and manage each state during training and competition to optimise performance.
Note: Four references have been removed to preserve the authors’ anonymity


Table 1: Participant demographics

<table>
<thead>
<tr>
<th>Pseudonym</th>
<th>Age</th>
<th>Professional experience (yrs)</th>
<th>Nationality</th>
<th>Case selection rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alex</td>
<td>20</td>
<td>1</td>
<td>England</td>
<td>Won tournament on Europro Tour</td>
</tr>
<tr>
<td>David</td>
<td>26</td>
<td>3</td>
<td>England</td>
<td>Won tournament on Europro Tour</td>
</tr>
<tr>
<td>Lee</td>
<td>37</td>
<td>14</td>
<td>England</td>
<td>Won tournament on Europro Tour</td>
</tr>
<tr>
<td>Nick</td>
<td>52</td>
<td>34</td>
<td>Australia</td>
<td>Won tournament on Senior Tour</td>
</tr>
<tr>
<td>Oliver</td>
<td>23</td>
<td>2</td>
<td>England</td>
<td>Won tournament on Europro Tour</td>
</tr>
<tr>
<td>Phil</td>
<td>25</td>
<td>5</td>
<td>England</td>
<td>Won tournament on Europro Tour</td>
</tr>
<tr>
<td>Shane</td>
<td>24</td>
<td>1</td>
<td>USA</td>
<td>Won tournament on Europro Tour</td>
</tr>
<tr>
<td>Ian</td>
<td>39</td>
<td>17</td>
<td>England</td>
<td>Finished second in tournament on Europro Tour</td>
</tr>
<tr>
<td>Martin</td>
<td>28</td>
<td>8</td>
<td>England</td>
<td>First round leader in tournament on Europro Tour</td>
</tr>
<tr>
<td>Jack</td>
<td>23</td>
<td>1</td>
<td>USA</td>
<td>Qualified for The Open via Local Final Qualifying</td>
</tr>
<tr>
<td>Mean (SD)</td>
<td>30 (9.9)</td>
<td>9 (10.6)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 2: Overview of players who experienced “letting it happen,” “making it happen,” or neither

<table>
<thead>
<tr>
<th>Illustrative quote</th>
<th>Player</th>
</tr>
</thead>
<tbody>
<tr>
<td>The last round… I was pretty zoned in [on the] front nine… That was just the perfect way to play golf</td>
<td>Alex</td>
</tr>
<tr>
<td>On the Thursday, I had a putt… to go 10 [under par] for the tournament… everything was just flowing nicely… I did feel like I was sort of indestructible almost at that point</td>
<td>David A</td>
</tr>
<tr>
<td>The first round, yeah I think I kind of experienced a little bit of the zone… I wasn’t fazed by anything, you know, I felt good. I think everything just seems to fit into place</td>
<td>Lee</td>
</tr>
<tr>
<td>Yeah… yesterday was [in the zone]… [I shot] seven under.</td>
<td>Ian A</td>
</tr>
<tr>
<td>The times that I have been in it is obviously when my good rounds have been, i.e., on Wednesday when I shot eight under.</td>
<td>Martin</td>
</tr>
<tr>
<td>I recently was just in it, at the qualifying. I posted seven under [par] on my back nine to shoot eight under [par in total], and I was definitely in the zone on that back nine.</td>
<td>Jack</td>
</tr>
<tr>
<td>I knew standing on the 17th I needed to finish birdie-birdie for second… [and] it felt like I was trying more to get in that zone</td>
<td>Ian B</td>
</tr>
<tr>
<td>My lowest round really was two days ago… I shot ten under, course record… and I was definitely, definitely in the zone then</td>
<td>Oliver 1</td>
</tr>
<tr>
<td>I knew that I had to concentrate and be in the zone… to finish it off… That just made me step up my concentration and get me…more in the zone</td>
<td>Oliver 2</td>
</tr>
<tr>
<td>I don’t think I could have concentrated any more from 16 to 18… on 17… I literally think I stayed in the zone the whole time through that hole</td>
<td>David B</td>
</tr>
<tr>
<td>I was really in the zone for that wedge shot and I got it close… I walked straight up to it, I knew exactly what I had to do and I pulled the club and I just hit it</td>
<td>Nick</td>
</tr>
<tr>
<td>I was pretty close to being in the zone...[but just] on the greens</td>
<td>Shane</td>
</tr>
<tr>
<td>Last week…(I) just went about doing my own business, and wouldn’t say I was in the zone</td>
<td>Phil 1</td>
</tr>
<tr>
<td>Yeah I wasn’t in the zone at all… I just don’t think I was bothered enough</td>
<td>Phil 2</td>
</tr>
</tbody>
</table>

Note: 1,2 refer to different interviews held with the same player; A, B denote between different experiences in the same tournament (i.e., second round and final round for both players).
Table 3: Analysis of the occurrence and experience of “letting it happen”

<table>
<thead>
<tr>
<th>Themes</th>
<th>Codes</th>
<th>Example Quotes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Positive Event</strong></td>
<td>Holing a putt</td>
<td>Holing an important putt; holing a long putt</td>
</tr>
<tr>
<td></td>
<td>Making a birdie</td>
<td>It started with birdie</td>
</tr>
<tr>
<td></td>
<td>Hitting a good shot</td>
<td>Hit a good shot off first tee, set tone for the day</td>
</tr>
<tr>
<td></td>
<td>Get a good feeling in the swing</td>
<td>Something clicked in my swing</td>
</tr>
<tr>
<td><strong>Confidence and momentum builds</strong></td>
<td>Develop momentum</td>
<td>Create snowball by hitting good shots and making birdies; I had momentum</td>
</tr>
<tr>
<td></td>
<td>Confidence grows from hitting good shots</td>
<td>Confidence grows as momentum builds</td>
</tr>
<tr>
<td></td>
<td>Confidence in performance</td>
<td>Confidence rises from hitting good shots</td>
</tr>
<tr>
<td><strong>Occurrence</strong></td>
<td>Total confidence</td>
<td>Swing was starting to feel good</td>
</tr>
<tr>
<td></td>
<td>Start challenging yourself</td>
<td>Confident in everything/all parts of game; Extra belief/confidence in yourself because of what’s just happened</td>
</tr>
<tr>
<td></td>
<td>Get further in front</td>
<td>Start firing at everything – know you’re going to make it; Know before hitting it that it’ll go in</td>
</tr>
<tr>
<td></td>
<td>Get another birdie</td>
<td>Wanted to test/challenge myself in the most pressure-packed situation</td>
</tr>
<tr>
<td></td>
<td>Get further under par</td>
<td>Just trying to get it lower; when I got to 8 I wanted to get it to 9</td>
</tr>
<tr>
<td><strong>Experience</strong></td>
<td>Positive feedback</td>
<td>Nothing could go wrong; working out unreal; felt indestructible</td>
</tr>
<tr>
<td></td>
<td>Absence of negative thoughts</td>
<td>Everything was comfortable; flowing nicely</td>
</tr>
<tr>
<td></td>
<td>Relaxed concentration</td>
<td>Not worried about next shot</td>
</tr>
<tr>
<td></td>
<td>Absorption</td>
<td>Fear and doubt go down</td>
</tr>
<tr>
<td></td>
<td>“Letting it happen”</td>
<td>Didn’t have negative thoughts</td>
</tr>
<tr>
<td></td>
<td>Calm/relaxed</td>
<td>Didn’t feel pressure</td>
</tr>
<tr>
<td></td>
<td>Ease/automaticity</td>
<td>So focused on the process and staying in the present</td>
</tr>
<tr>
<td></td>
<td>Sense of control</td>
<td>I was concentrating well; 100% focused on what I was doing; mind never wandered</td>
</tr>
<tr>
<td></td>
<td>Enhanced motivation</td>
<td>Didn’t realise how many under par I was because so focused on making another birdie</td>
</tr>
<tr>
<td></td>
<td>Enjoyment</td>
<td>Didn’t feel pressure</td>
</tr>
<tr>
<td></td>
<td>Altered perceptions</td>
<td>Felt calm; relaxed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>That was easy; the game felt easier to play</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ball was under control</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Couldn’t wait to hit the next shot</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enjoying the situation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Walk taller, stand stronger</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Tunnel vision</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Time went by quickly</td>
</tr>
</tbody>
</table>
## Table 4: Analysis of the occurrence and experience of “making it happen”

<table>
<thead>
<tr>
<th>Themes</th>
<th>Codes</th>
<th>Example Quotes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Occurrence</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Become aware of the situation</td>
<td>Saw leader-board and knew the situation</td>
<td>I saw on the leader-board that I was one clear, knew my job; knew the situation</td>
</tr>
<tr>
<td></td>
<td>Situational demands</td>
<td>Knew only had two holes left; it’s the end of the round, end of the tournament, leading by two</td>
</tr>
<tr>
<td></td>
<td>Own realisation</td>
<td>DAWNED ON ME THAT I COULD SHOOT MY BEST EVER SCORE</td>
</tr>
<tr>
<td>Identify fixed goals</td>
<td>Fixed goals</td>
<td>FINISH PAR-PAR TO WIN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FINISH BIRDIE-BIRDIE FOR SECOND</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FINISH WITH THREE BIRDIES FOR BEST EVER SCORE</td>
</tr>
<tr>
<td>Challenge appraisal</td>
<td>This is my time</td>
<td>THIS WAS MY TIME; THIS IS WHERE I CAN WIN THE TOURNAMENT</td>
</tr>
<tr>
<td></td>
<td>Challenging situations</td>
<td>IT WAS LIKE THE HEAT OF THE BATTLE</td>
</tr>
<tr>
<td></td>
<td>Confidence</td>
<td>HAD BELIEF IN MYSELF; KNEW I WAS GOING TO PLAY WELL; KNEW I WAS GOING TO WIN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DIDN’T REALISE SEVERITY OF THE SHOT BECAUSE I WAS CONFIDENT IN MY ABILITY</td>
</tr>
<tr>
<td>Concentration increases</td>
<td>Peak of concentration</td>
<td>100% concentration</td>
</tr>
<tr>
<td></td>
<td>Awareness of demands steps up concentration</td>
<td>KNEW I HAD TO CONCENTRATE; KNOWING WHAT YOU HAVE TO DO REALLY STEPS UP MY CONCENTRATION</td>
</tr>
<tr>
<td></td>
<td>More intense focus</td>
<td>MADE MYSELF FOCUS MORE; MORE INTENSE FOCUS</td>
</tr>
<tr>
<td></td>
<td>Concentration on task at hand</td>
<td>WASN’T THINKING ANYTHING OTHER THAN HITTING THE SHOTS AND WINNING THE TOURNAMENT</td>
</tr>
<tr>
<td>Experience</td>
<td>Intensity of effort</td>
<td>INTENSITY LEVELS ARE HIGHER; FEELING REALLY INTENSE TO DO IT PROPERLY; TRYING HARDER TO BE MORE INTENSE</td>
</tr>
<tr>
<td></td>
<td>Absorption</td>
<td>Didn’t notice anything going on around me; didn’t notice the cameraman right in front of me</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Didn’t take notice of surroundings - It’s just me and the ball, nothing else is around me</td>
</tr>
<tr>
<td></td>
<td>Enjoyment</td>
<td>You’re enjoying it</td>
</tr>
<tr>
<td>“Making it happen”</td>
<td>Enhanced motivation</td>
<td>Couldn’t wait to hit the shots</td>
</tr>
<tr>
<td></td>
<td></td>
<td>It wasn’t just about winning, it was about hitting perfect shot; wanted satisfaction of hitting it out of the middle</td>
</tr>
<tr>
<td></td>
<td>Sense of control</td>
<td>FELT IN CONTROL OF EVERYTHING; COMPLETE CONTROL OF SELF AND EMOTIONS; IN CONTROL OF THE BALL ALL DAY</td>
</tr>
<tr>
<td></td>
<td>Optimal arousal</td>
<td>RELAXED, CALM; WASN’T TOO PUMPED-UP OR EXCITED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adrenaline in your body makes you hit it further; adrenaline was going; had butterflies; nervous</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Didn’t hear much; can’t see or hear much around me</td>
</tr>
<tr>
<td></td>
<td>Altered perceptions</td>
<td>I was just seeing me and the flag, that was it</td>
</tr>
<tr>
<td></td>
<td></td>
<td>FELT STRONGER; CAN HIT THE BALL FURTHER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LOSS OF MEMORY - I CAN HARDLY REMEMBER; CAN REMEMBER HITTING THE SHOTS BUT NOT THE OTHER NORMAL DETAILS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HAPPENED VERY QUICKLY; DID GO PRETTY QUICKLY</td>
</tr>
</tbody>
</table>
Table 5: Examples of the different goals pursued in both states

<table>
<thead>
<tr>
<th>State</th>
<th>Player</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make it</td>
<td>Jack</td>
<td>I figured before teeing off if I shoot 6 under I’ll have a chance (of qualifying for The Open)…I was just so into that number, I’m like “okay let’s just get to 6…6 under will get it done</td>
</tr>
<tr>
<td></td>
<td>Oliver₁</td>
<td>I want to finish with three birdies for my best ever score</td>
</tr>
<tr>
<td></td>
<td>Oliver₂</td>
<td>on the last two holes there’s only two shots between me and the next guy, so now there’s a goal there, to finish with two pars…to win…my first tournament</td>
</tr>
<tr>
<td></td>
<td>David A</td>
<td>If I finished par, par, par, I was going to win the golf tournament</td>
</tr>
<tr>
<td></td>
<td>Ian</td>
<td>I knew standing on the 17th I needed to finish birdie-birdie for second</td>
</tr>
<tr>
<td>Let it</td>
<td>Alex</td>
<td>All I’m thinking about…trying to go forward, trying to get further in front…so I’d say it’s the kind of one-sighted vision that I had to go further ahead</td>
</tr>
<tr>
<td></td>
<td>David B</td>
<td>You’re just sort of…trying to go “right, how deep can I go?”</td>
</tr>
<tr>
<td></td>
<td>Martin</td>
<td>I was kind of like “let’s just see what happens”…It was just normal and “(let’s) go see what I can do”… when I got it to 8 (under)…I just thought “just get more.”</td>
</tr>
</tbody>
</table>

Note: 1,2 refer to different interviews held with Oliver; A, B denote between different experiences David had in the same tournament.
Figure 1: Summary of the occurrence and experience of both states reported