Cognitive Behavioral Therapy (CBT) is one of the most researched psychotherapy treatments (David, Cristea, & Hofmann, 2018). CBT was developed in the 1970s by Aaron T. Beck and is based on the idea that biases in thinking lead to and maintain problematic emotions and behaviors. In CBT for pathological gambling, treatment involves psychoeducation on the role of thoughts and behaviors in perpetuating unhealthy gambling behaviors, the use of tools to help patients identify and change irrational beliefs related to gambling, development of problem solving skills, and relapse prevention practices (Ladouceur, Sylvain, Boutin, & Doucet, 2002). In the gambling literature, the terms ‘pathological gambling’ and ‘problem gambling’ are used to encompass gambling disorder and subthreshold symptoms.

**What is cognitive behavioral therapy?**

CBT is one of the most researched psychotherapy treatments (David, Cristea, & Hofmann, 2018). CBT was developed in the 1970s by Aaron T. Beck and is based on the idea that biases in thinking lead to and maintain problematic emotions and behaviors. In CBT for pathological gambling, treatment involves psychoeducation on the role of thoughts and behaviors in perpetuating unhealthy gambling behaviors, the use of tools to help patients identify and change irrational beliefs related to gambling, development of problem solving skills, and relapse prevention practices (Ladouceur, Sylvain, Boutin, & Doucet, 2002). In the gambling literature, the terms ‘pathological gambling’ and ‘problem gambling’ are used to encompass gambling disorder and subthreshold symptoms.

**What is the theoretical model underlying CBT for pathological gambling?**

CBT is based on Beck's theory of depression (Beck, 1967; Beck, 2008) but has been adapted to support the underlying features of pathological gambling. Irrational beliefs play a part in pathological gambling; gamblers may believe that they can control or predict outcomes, attribute positive outcomes to skill and poor outcomes to bad luck, and overestimate their chances of winning. Other cognitive biases can develop that lead individuals to attend to positive (wins) verses negative (losses) outcomes. It is likely a combination of irrational beliefs, cognitive bias, behavioral reinforcement scheduling, genetic vulnerabilities (impulsiveness), poor coping strategies, and environmental factors (current life stressors) that combine to create an automatic pattern of problematic gambling (Sharpe, 2002). Given that the underlying theory of pathological gambling has cognitive and behavioral elements, CBT is a preferred treatment and remains well supported (Abbott, 2019).

**Is CBT recommended as a treatment for pathological gambling in the Military Health System (MHS)?**

There is no VA/DoD clinical practice guideline (CPG) on the treatment of pathological gambling. The MHS relies on the VA/DoD clinical practice guidelines (CPGs) to inform best clinical practices. However, in the absence of an official VA/DoD recommendation, clinicians should look to CPGs published by other recognized organizations, and may rely on knowledge of the literature and clinical judgement.

**Do other organizations with CPGs for the treatment of pathological gambling recommend CBT?**

Yes. CPGs published by other organizations recommend the use of CBT for pathological gambling.

- A search of the ECRI Institute Guidelines Trust did not locate any CPGs on the treatment of pathological gambling.
- The Massachusetts Department of Public Health's practice guidelines for treating gambling-related problems includes CBT as an intervention with “strong evidence” for the treatment of disordered gambling (Korn & Shaffer, 2004).
- The Singapore Ministry of Health's CPGs on the management of gambling disorders recommends CBT for the treatment of pathological gambling with a “Grade B, Level 2++” recommendation (high quality systematic reviews of case control or cohort studies; Ministry of Health, Singapore, 2011).

**Do other authoritative reviews recommend CBT as a front-line treatment for pathological gambling?**

No. Other authoritative reviews have not substantiated the use of CBT as a front-line treatment for pathological gambling.
June 2019 literature search identified a 2017 systematic review of treatments for problem gambling that included 21 randomized trials of psychosocial treatments, three of which included in-person delivery of CBT without the addition of motivational interviewing (Petry, Ginley, & Rash, 2017). The first of these studies randomized 102 participants with gambling disorder to a waitlist, individual CBT, or group CBT (Oei, Raylu, & Casey, 2010). At post-treatment, both therapy groups improved significantly on gambling variables compared to waitlist, but there were no significant differences between individual and group therapy conditions. In another study, 87 problem gamblers were given a cognitive behavioral workbook, and were randomized to either five sessions with a therapist or brief check-ins with a research assistant (Campos, Rosenthal, Chen, Moghaddam, & Fong, 2016). This study reported potential short-term benefits of therapist support; there were no long-term differences between groups. A third study randomized 231 participants with gambling disorder into three conditions: referral to Gamblers Anonymous (GA), referral to GA along with a cognitive behavioral workbook, and referral to GA along with individual CBT (Petry et al., 2006). At the end of treatment, participants in the workbook and therapy conditions showed greater improvement on days gambled than GA referral alone. At 12-month follow-up, improvements did not differ by group.

**Q.** Is there any recent research on CBT as a treatment for pathological gambling?

**A.** A June 2019 literature search identified a 2017 systematic review of treatments for problem gambling that included 21 randomized trials of psychosocial treatments, three of which included in-person delivery of CBT without the addition of motivational interviewing (Petry, Ginley, & Rash, 2017). The first of these studies randomized 102 participants with gambling disorder to a waitlist, individual CBT, or group CBT (Oei, Raylu, & Casey, 2010). At post-treatment, both therapy groups improved significantly on gambling variables compared to waitlist, but there were no significant differences between individual and group therapy conditions. In another study, 87 problem gamblers were given a cognitive behavioral workbook, and were randomized to either five sessions with a therapist or brief check-ins with a research assistant (Campos, Rosenthal, Chen, Moghaddam, & Fong, 2016). This study reported potential short-term benefits of therapist support; there were no long-term differences between groups. A third study randomized 231 participants with gambling disorder into three conditions: referral to Gamblers Anonymous (GA), referral to GA along with a cognitive behavioral workbook, and referral to GA along with individual CBT (Petry et al., 2006). At the end of treatment, participants in the workbook and therapy conditions showed greater improvement on days gambled than GA referral alone. At 12-month follow-up, improvements did not differ by group.

**Q.** What conclusions can be drawn about the use of CBT as a treatment for pathological gambling in the MHS?

**A.** There is currently no VA/DoD CPG on the treatment of pathological gambling. There are a small number of published RCTs of CBT for pathological gambling with somewhat promising results, but the poor quality of the research limits the conclusions that can be drawn. Recent and in-progress trials are focused on self-directed, internet-based approaches that involve components of CBT, rather than traditional, in-person delivery.
References


