

Gaming Disorder: Diagnostik und Psychotherapie der neuen ICD-11-Diagnose

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Literatur

- Aarseth, E., Bean, A. M., Boonen, H., Colder Carras, M., Coulson, M., Das, D. et al. (2017). Scholars' open debate paper on the World Health Organization ICD-11 Gaming Disorder proposal. *Journal of Behavioral Addictions*, 6 (3), 267–270.
- American Psychiatric Association. (2013). Diagnostic and Statistical Manual of Mental Disorders, fifth edition (5. Aufl.). Washington, D.C.: American Psychiatric Association.
- Beard, K. W. & Wolf, E. M. (2001). Modification in the proposed diagnostic criteria for Internet addiction. *Cyberpsychology & Behavior: the Impact of the Internet, Multimedia and Virtual Reality on Behavior and Society*, 4 (3), 377–383.
- Berridge, K. C. & Robinson, T. E. (2016). Liking, wanting, and the incentive-sensitization theory of addiction. *The American Psychologist*, 71(8), 670–679.
- Billieux, J., Schimmenti, A., Khazaal, Y., Maurage, P. & Heeren, A. (2015). Are we overpathologizing everyday life? A tenable blueprint for behavioral addiction research. *Journal of Behavioral Addictions*, 4(3), 119–123.
- Brand, M., Wegmann, E., Stark, R., Müller, A., Wölfling, K. [Klaus], Robbins, T. W. et al. (2019). The Interaction of Person-Affect-Cognition-Execution (I-PACE) model for addictive behaviors: Update, generalization to addictive behaviors beyond internet-use disorders, and specification of the process character of addictive behaviors. *Neuroscience and Biobehavioral Reviews*, 104, 1–10.
- Brand, M., Young, K. S., Wölfling, K. & Potenza, M. N. (2016). Integrating psychological and neurobiological considerations regarding the development and maintenance of specific Internet-use disorders: An Interaction of Person-Affect-Cognition-Execution (I-PACE) model. *Neuroscience and Biobehavioral Reviews*, 71, 252–266.
- Davis, R. A. (2001). A cognitive-behavioral model of pathological Internet use. *Computers in Human Behavior*, 17 (2), 187–195.
- Deutsche Hauptstelle für Suchtfragen e.V. und Fachverband Medienabhängigkeit e.V. (Hrsg.). (2020). Ergebnispapier der Arbeitsgruppe "Problematisches Computerspielen und Gaming Disorder". Verfügbar unter:

- https://www.dhs.de/fileadmin/user_upload/pdf/news/Ergebnispapier_AG_Problematisches_Computerspielen_und_Gaming_Disorder.pdf (29.01.2021).
- Eichenberg, C., Dyba, J. & Schott, M. (2017). Bindungsstile, Nutzungsmotive und Internetsucht. Psychiatrische Praxis [Attachment Style, Motives for Use and Internet Addiction], 44 (1), 41–46.
- Everitt, B. J., Dickinson, A. & Robbins, T. W. (2001). The neuropsychological basis of addictive behaviour. Brain Research Reviews, 36 (2-3), 129–138.
- Fam, J. Y. (2018). Prevalence of internet gaming disorder in adolescents: A meta-analysis across three decades. Scandinavian Journal of Psychology, 59 (5), 524–531.
- Festl, R., Scharkow, M. & Quandt, T. (2013). Problematic computer game use among adolescents, younger and older adults. Addiction (Abingdon, England), 108 (3), 592–599.
- Fisher, S. (1994). Identifying video game addiction in children and adolescents. Addictive Behaviors, 19 (5), 545–553.
- Greenfield, D. N. (1999). Psychological characteristics of compulsive internet use: a preliminary analysis. Cyberpsychology & Behavior: the Impact of the Internet, Multimedia and Virtual Reality on Behavior and Society, 2 (5), 403–412.
- Greschner, M., Müller, J. M., Lindenberg, K., Reck, C., Romer, G. & Strittmatter, E. (2017). Bindungsstile bei Probanden mit pathologischem Internetgebrauch. SUCHT, 63 (1), 43–52.
- Griffiths, M. D., Kuss, D. J., Lopez-Fernandez, O. & Pontes, H. M. (2017). Problematic gaming exists and is an example of disordered gaming. Journal of Behavioral Addictions, 6 (3), 296–301.
- Grüsser, S. M., & Thalemann, C. N. (2006). Verhaltenssucht: Diagnostik, Therapie, Forschung. (1. Aufl.). Bern: Huber.
- Ho, R. C., Zhang, M. W. B., Tsang, T. Y., Toh, A. H., Pan, F., Lu, Y. et al. (2014). The association between internet addiction and psychiatric co-morbidity: a meta-analysis. BMC Psychiatry, 14, 183.
- Illy, D. (2020). Praxishandbuch Videospiel- und Internetabhängigkeit. Ätiologie, Diagnostik und Therapie. München: Urban & Fischer in Elsevier.
- James, R. J. E. & Tunney, R. J. (2017). The relationship between gaming disorder and addiction requires a behavioral analysis. Journal of Behavioral Addictions, 6 (3), 306–309.
- Karacic, S. & Oreskovic, S. (2017). Internet Addiction Through the Phase of Adolescence: A Questionnaire Study. JMIR Mental Health, 4 (2), e11.
- Kardefelt-Winther, D. (2014). Meeting the unique challenges of assessing internet gaming disorder. Addiction (Abingdon, England), 109(9), 1568–1570.
- Kardefelt-Winther, D. (2015). Assessing the diagnostic contribution of internet gaming disorder criteria requires improved content, construct and face validity-a response to Rehbein and colleagues (2015). Addiction (Abingdon, England), 110 (8), 1359–1360.

- King, D. L., Chamberlain, S. R., Carragher, N., Billieux, J., Stein, D., Mueller, K. et al. (2020). Screening and assessment tools for gaming disorder: A comprehensive systematic review. *Clinical Psychology Review*, 77, 101831.
- King, D. L., Delfabbro, P. H., Griffiths, M. D. & Gradišar, M. (2011). Assessing clinical trials of Internet addiction treatment: a systematic review and CONSORT evaluation. *Clinical Psychology Review*, 31 (7), 1110–1116.
- Király, O. & Demetrovics, Z. (2017). Inclusion of Gaming Disorder in ICD has more advantages than disadvantages. *Journal of Behavioral Addictions*, 6 (3), 280–284.
- Ko, C.-H., Yen, J.-Y., Chen, S.-H., Wang, P.-W., Chen, C.-S. & Yen, C.-F. (2014). Evaluation of the diagnostic criteria of Internet gaming disorder in the DSM-5 among young adults in Taiwan. *Journal of Psychiatric Research*, 53, 103–110.
- Kriminologisches Forschungsinstitut Niedersachsen e.V. Deutschlandweite Repräsentativbefragung Computerspielabhängigkeit, unpublished manuscript.
- Kuss, D. J. & Griffiths, M. D. (2012). Internet and gaming addiction: a systematic literature review of neuroimaging studies. *Brain Sciences*, 2 (3), 347–374.
- Kwon, J.-H., Chung, C.-S. & Lee, J. (2011). The effects of escape from self and interpersonal relationship on the pathological use of Internet games. *Community Mental Health Journal*, 47 (1), 113–121.
- Lee, S.-Y., Choo, H. & Lee, H. K. (2017). Balancing between prejudice and fact for Gaming Disorder: Does the existence of alcohol use disorder stigmatize healthy drinkers or impede scientific research? *Journal of Behavioral Addictions*, 6 (3), 302–305.
- Lee, Y. S., Han, D. H., Yang, K. C., Daniels, M. A., Na, C., Kee, B. S. et al. (2008). Depression like characteristics of 5HTTLPR polymorphism and temperament in excessive internet users. *Journal of Affective Disorders*, 109 (1-2), 165–169.
- Lemmens, J. S., Valkenburg, P. M. & Gentile, D. A. (2015). The Internet Gaming Disorder Scale. *Psychological Assessment*, 27 (2), 567–582.
- Lemmens, J. S., Valkenburg, P. M. & Peter, J. (2009). Development and Validation of a Game Addiction Scale for Adolescents. *Media Psychology*, 12 (1), 77–95. *Media Psychology*, 12 (1), 77–95.
- Lindenberg, K., Halasy, K., Szász-Janocha, C. & Wartberg, L. (2018). A phenotype classification of Internet Use Disorder in a large-scale high-school study. *International Journal of Environmental Research and Public Health*, 15(4).
- Lindenberg, K., Kindt, S. & Szász-Janocha, C. (2020). Internet addiction in adolescents. The PROTECT Program for Evidence-Based Prevention and Treatment. Cham: Springer.

- Lindenberg, K., Szász-Janocha, C., Schoenmaekers, S., Wehrmann, U. & Vonderlin, E. (2017). An analysis of integrated health care for Internet Use Disorders in adolescents and adults. *Journal of Behavioral Addictions*, 6 (4), 579–592.
- Lindenberg, K., Kindt, S., & Szász-Janocha, C. (submitted). CBT-based indicated prevention in high-schools reduces symptoms of Internet Use Disorders over 12 months.
- Liu, L., Xue, G., Potenza, M. N., Zhang, J.-T., Yao, Y.-W., Xia, C.-C. et al. (2017). Dissociable neural processes during risky decision-making in individuals with Internet-gaming disorder. *NeuroImage. Clinical*, 14, 741–749.
- Meng, Y., Deng, W., Wang, H., Guo, W. & Li, T. (2015). The prefrontal dysfunction in individuals with Internet gaming disorder: a meta-analysis of functional magnetic resonance imaging studies. *Addiction Biology*, 20 (4), 799–808.
- Mentzoni, R. A., Brumborg, G. S., Molde, H., Myrseth, H., Skouverøe, K. J. M., Hetland, J. et al. (2011). Problematic video game use: estimated prevalence and associations with mental and physical health. *Cyberpsychology, Behavior, and Social Networking*, 14 (10), 591–596.
- Moll, B. & Thomasius, R. (2019). *Kognitiv-verhaltenstherapeutisches Gruppenprogramm für Jugendliche mit abhängigem Computer- oder Internetgebrauch. Das "Lebenslust statt Onlineflucht"-Programm* (Therapeutische Praxis, 1. Auflage). Göttingen: Hogrefe.
- Möller, C. (Hrsg.). (2015). *Internet- und Computersucht. Ein Praxishandbuch für Therapeuten, Pädagogen und Eltern* (2., aktualisierte und erweiterte Auflage). Stuttgart: Verlag W. Kohlhammer.
- Morioka, H., Itani, O., Osaki, Y., Higuchi, S., Jike, M., Kaneita, Y. et al. (2017). The association between alcohol use and problematic internet use: A large-scale nationwide cross-sectional study of adolescents in Japan. *Journal of Epidemiology*, 27(3), 107–111.
- Müller, K. & Wölfling, K. (2017). *AICA-SKI:IBS. Strukturiertes klinisches Interview zu Internetbezogenen Störungen*. (1 Aufl.), Ambulanz für Spielsucht an der Klinik und Poliklinik für Psychosomatische Medizin und Psychotherapie, Universitätsmedizin Mainz.
- Müller, K. W. & Wölfling, K. (2017). *Pathologischer Mediengebrauch und Internetsucht (Sucht: Risiken - Formen - Interventionen)*. Stuttgart: Kohlhammer.
- Musetti, A., Cattivelli, R., Giacobbi, M., Zuglian, P., Ceccarini, M., Capelli, F. et al. (2016). Challenges in Internet Addiction Disorder: Is a Diagnosis Feasible or Not? *Frontiers in Psychology*, 7, 842.
- Musetti, A. & Corsano, P. (2018). The Internet Is Not a Tool: Reappraising the Model for Internet-Addiction Disorder Based on the Constraints and Opportunities of the Digital Environment. *Frontiers in Psychology*, 9, 558.
- Paschke, K., Holtmann, M., Melchers, P., Klein, M., Schimansky, G., Krömer, T. et al. (2020). *Medienbezogene Störungen im Kindes- und Jugendalter: Evidenzpapier der Gemeinsamen Suchtkommission der kinder- und jugendpsychiatrischen und psychotherapeutischen Fachgesellschaft und Verbände (DGKJP, BAG, BKJPP)*. Zeitschrift für Kinder- und Jugendpsychiatrie und Psychotherapie [Media-associated disorders in childhood and adolescence: Psychotherapeutenjournal 1/2021, S. 6–13]

- Evidence paper of the joint addiction commision of the German societies and professional associations of child and adolescent psychiatry and psychotherapy], 48 (4), 303–317.
- Petersen, K. U., Hanke, S., Bieber, L., Mühleck, A. & Batra, A. (2017). Angebote bei internetbasiertem Suchtverhalten in Deutschland (AbiS). Lengerich: Pabst Science Publishers.
- Przybylski, A. [Andy] & Orben, A. (2018). Gaming addiction as a mental disorder: it's premature to pathologise players. Zugriff am 20.08.2020. Verfügbar unter: <https://theconversation.com/gaming-addiction-as-a-mental-disorder-its-premature-to-pathologise-players-89892>
- Rehbein, F., Kliem, S., Baier, D., Mößle, T. & Petry, N. M. (2015). Prevalence of Internet gaming disorder in German adolescents: diagnostic contribution of the nine DSM-5 criteria in a state-wide representative sample. *Addiction* (Abingdon, England), 110(5), 842–851.
<https://doi.org/10.1111/add.12849>
- Rehbein, F., Baier, D., Kleimann, M., & Mößle, T. (2015). Computerspielabhängigkeitsskala (CSAS): Ein Verfahren zur Erfassung der Internet Gaming Disorder nach DSM-5. Göttingen: Hogrefe.
- Saunders, J. B., Hao, W., Long, J., King, D. L., Mann, K., Fauth-Bühler, M. et al. (2017). Gaming disorder: Its delineation as an important condition for diagnosis, management, and prevention. *Journal of Behavioral Addictions*, 6 (3), 271–279.
- Shadloo, B., Farnam, R., Amin-Esmaeli, M., Hamzehzadeh, M., Rafiemanesh, H., Jobehdar, M. M. et al. (2017). Inclusion of gaming disorder in the diagnostic classifications and promotion of public health response. *Journal of Behavioral Addictions*, 6 (3), 310–312.
- Shapira, N. A., Goldsmith, T. D., Keck, P. E., Khosla, U. M. & McElroy, S. L. (2000). Psychiatric features of individuals with problematic internet use. *Journal of affective disorders*, 57 (1-3), 267–272.
- Shapira, N. A., Lessig, M. C., Goldsmith, T. D., Szabo, S. T., Lazoritz, M., Gold, M. S. et al. (2003). Problematic internet use: proposed classification and diagnostic criteria. *Depression and Anxiety*, 17 (4), 207–216.
- Starcke, K., Antons, S., Trotzke, P. & Brand, M. (2018). Cue-reactivity in behavioral addictions: A meta-analysis and methodological considerations. *Journal of Behavioral Addictions*, 7(2), 227–238.
- Stavropoulos, V., Griffiths, M. D., Burleigh, T. L., Kuss, D. J., Doh, Y. Y. & Gomez, R. (2018). Flow on the Internet: a longitudinal study of Internet addiction symptoms during adolescence. *Behaviour & Information Technology*, 37(2), 159–172.
- Sussman, C. J., Harper, J. M., Stahl, J. L. & Weigle, P. (2018). Internet and Video Game Addictions: Diagnosis, Epidemiology, and Neurobiology. *Child and Adolescent Psychiatric Clinics of North America*, 27 (2), 307–326.
- Szász-Janocha, C., Vonderlin, E. & Lindenberg, K. (2020). Die Wirksamkeit eines Frühinterventionsprogramms für Jugendliche mit Computerspiel- und Internetabhängigkeit: Mittelfristige Effekte der PROTECT+ Studie. *Zeitschrift für Kinder- und Jugendpsychiatrie und Psychotherapie*.

- Psychotherapie [Effectiveness of an early intervention program for adolescents with Internet Gaming and Internet Use Disorder: Medium-term effects of the PROTECT+ Study], 48 (1), 3–14.
- Szász-Janocha, C., Kindt, S., Halasy, K., Lindenberg, K. (2019). Prävention und Frühintervention bei Internetbezogenen Störungen – (inter-)nationaler Stand. Suchtmedizin, 21 (4), 259–271.
- Szász-Janocha, C., Vonderlin, E., & Lindenberg, K. (in press). Treatment outcomes of a CBT-based group intervention for adolescents with Internet use disorders.
- Te Wildt, B. T. & Vukićević, A. (2019). Medienabhängigkeit und komorbide psychische Störungen. In M. Walter, E. Gouzoulis-Mayfrank & A. Batra (Hrsg.), Psychische Störungen und Suchterkrankungen. Diagnostik und Behandlung von Doppeldiagnosen (2. Auflage, S. 256–274). Kohlhammer.
- Van den Brink, W. (2017). ICD-11 Gaming Disorder: Needed and just in time or dangerous and much too early? Journal of Behavioral Addictions, 6 (3), 290–292.
- Van Loh, J. (2018). Digitale Störungen bei Kindern und Jugendlichen (Komplexe Krisen und Störungen). Stuttgart: Klett-Cotta.
- Van Rooij, A. J., Ferguson, C. J., Colder Carras, M., Kardefelt-Winther, D., Shi, J. & Przybylski, A. K. (2018). A weak scientific basis for gaming disorder: Let us err on the side of caution.
- Van Rooij, A. J., Kuss, D. J., Griffiths, M. D., Shorter, G. W., Schoenmakers, M. T. & van de Mheen, D. (2014). The (co-)occurrence of problematic video gaming, substance use, and psychosocial problems in adolescents. Journal of Behavioral Addictions, 3 (3), 157–165.
- Walther, B., Morgenstern, M. & Hanewinkel, R. (2012). Co-occurrence of addictive behaviours: personality factors related to substance use, gambling and computer gaming. European Addiction Research, 18 (4), 167–174.
- Wartberg, L., Kriston, L. & Thomasius, R. (2020). Internet gaming disorder and problematic social media use in a representative sample of German adolescents: Prevalence estimates, comorbid depressive symptoms and related psychosocial aspects. Computers in Human Behavior, 103, 31–36.
- Wartberg, L. & Lindenberg, K. (2020). Predictors of Spontaneous Remission of Problematic Internet Use in Adolescence: A One-Year Follow-Up Study. International Journal of Environmental Research and Public Health, 17 (2), 448.
- Wartberg, L., Moll, B., Baldus, C., Thomsen, M. & Thomasius, R. (2017). Unterschiede zwischen Jugendlichen mit pathologischem Internetgebrauch in ambulanter und stationärer kinder- und jugendpsychiatrischer Behandlung. Zeitschrift für Kinder- und Jugendpsychiatrie und Psychotherapie [Differences between adolescents with pathological Internet use in inpatient and outpatient treatment], 45 (4), 313–322.
- Wartberg, L., Ziegelmeyer, M. & Kammerl, R. (2019). Accordance of Adolescent and Parental Ratings of Internet Gaming Disorder and Their Associations with Psychosocial Aspects. Cyberpsychology, Behavior, and Social Networking, 22(4), 264–270.

- Weinstein, A. & Lejoyeux, M. (2015). New developments on the neurobiological and pharmaco-genetic mechanisms underlying internet and videogame addiction. *The American Journal on Addictions*, 24 (2), 117–125.
- Weinstein, A., Livny, A. & Weizman, A. (2017). New developments in brain research of internet and gaming disorder. *Neuroscience and Biobehavioral Reviews*, 75, 314–330.
- Winnicott, D. W. (2018). *Vom Spiel zur Kreativität* (M. Ermann, Übers.) (Fachbuch, 15. Auflage). Stuttgart: Klett-Cotta.
- Wölfling, K., Jo, C., Bengesser, I., Beutel, M. E. & Müller, K. W. (2013). Computerspiel- und Internetsucht: Ein kognitiv-behaviorales Behandlungsmanual. *Störungsspezifische Psychotherapie*. Stuttgart: Kohlhammer.
- Wölfling, K., Müller, K. W., Dreier, M., Ruckes, C., Deuster, O., Batra, A. et al. (2019). Efficacy of Short-term Treatment of Internet and Computer Game Addiction: A Randomized Clinical Trial. *JAMA Psychiatry*, 76, 1018–1025.
- World Health Organization (WHO, Hrsg.). (2018a). ICD-11 for Mortality and Morbidity Statistics: 6C51 Gaming Disorder. Zugriff am 13.08.2020. Verfügbar unter: <https://icd.who.int/browse11/l-m/en#/http%3a%2f%2fid.who.int%2ficd%2fentity%2f1448597234> (29.01.2021).
- World Health Organization. (2018b). ICD-11: International Classification of Diseases 11th Revision. Verfügbar unter: <https://icd.who.int/dev11/l-m/en> (29.01.2021).
- Xu, Z. & Yuan, Y. (2008). The Impact of Motivation and Prevention Factors on Game Addiction. Special Interest Group in Human Computer Interaction, Proceedings 15. Zugriff am 27.08.2020. Verfügbar unter: <https://aisel.aisnet.org/sighci2008/15/>
- Young, K. S. (1998a). Caught in the net. How to recognize the signs of Internet addiction - and a winning strategy for recovery. New York: Wiley. Verfügbar unter: <http://www.loc.gov/catdir/bios/wiley041/97049070.html> (29.01.2021).
- Young, K. S. (1998b). Internet Addiction: The Emergence of a New Clinical Disorder. *Cyberpsychology & behavior: the impact of the Internet, multimedia and virtual reality on behavior and society*, 1 (3), 237–244.
- Young, K. S., & de Abreu, C. N. (2011). Internet addiction: A handbook and guide to evaluation and treatment. Hoboken, NJ: Wiley.