

The ASAM Board Exam Study Course of Addiction
Medicine
July 2021
Financial Disclosures

Erin Zerbo, MD
No Disclosures

- Outline

 1. History
- 2. Impulsivity/Compulsivity Spectrum
- 3. Gambling Disorder
- 4. Internet Gaming Disorder
- 5. Hypersexual Disorder
- 6. Other Behavioral Addictions

€00g

5

3

History

- Classified as:
 - Obsessive-compulsive spectrum disorders
 - Impulse-control disorders
 - By-products of mood disorders
 - Now: substance use disorder

(<u>§</u>)

6

2

DSM-5

- Substance-related and Addictive Disorders
 - Gambling disorder
- Conditions for Further Study
 - Internet gambling disorder
- Not included at all ("insufficient evidence")
 - Other internet or technology-related behaviors (social media, TV, ect.)
 - Sex, exercise, shopping, food, ect.

Potenza, M: Non-substance addictive behaviors in the context of DSM-5. Addict Behav 201

Essential Features

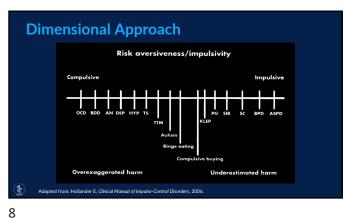
Failure to resist an

- impulse
- drive
- temptation

to perform an act that is harmful to one self or others.

Potenza, M: Non-substance addictive behaviors in the context of DSM-5. Addict Bel







Gender Differences

Men

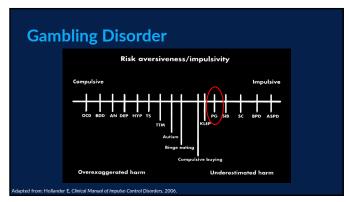
Body Dysmorphic
Sexual Compulsion
Pyromania
Gambling
Internet Addiction

Women

Anorexia
Binge Eating
Kleptomania
Compulsive Buying
Trichotillomania

9 10

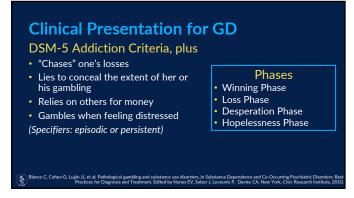




11 12







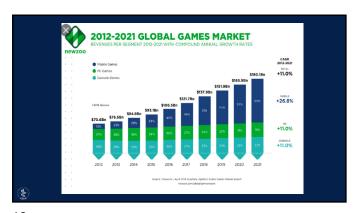
Pharmacology of GD Gambling affects: • DA • NE Cortisol • 5HT Neurobiological similarities with substance use disorders

15 16





17 18







Screening Tools

• The Lie/Bet Test

• Have you ever felt the need to bet more and more money?

• Have you ever had to lie to people important to you about how much you gambled?

99% sensitivity, 91% specificity

Johnson EE. Hamer R. Noro RM. et al: The lie/bet questionnaire for screening pathological gamblers. Psychological Reports 80:83-88. 1997.

21 22



Interpretative Biases

• Attributing wins to skill, losses to flukes

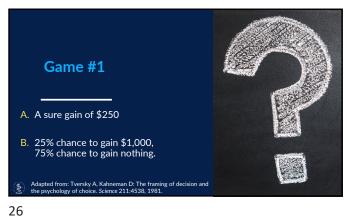
• Wrongly believing that a series of losses increases the chance of subsequent win

• Near misses ("I was only one number away!")

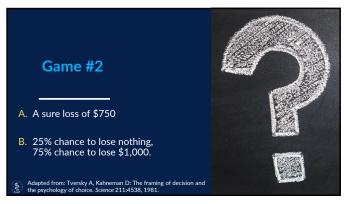
• The "Sunk-Cost" effect

23 24



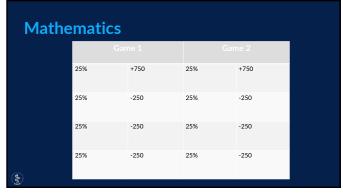






27 28





29 30





Selectiv

Selective Memory

- Remembering wins while ignoring losses.
- Totaling wins without correcting for amounts lost.

Telescoping

- Temporal:
- Expecting that naturally occurring—that is, probabilistically expected—wins will happen sooner rather than later.
- Reference:
 - Expecting that naturally occurring—that is, probabilistically expected—wins will happen to oneself rather than others.

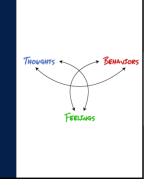
34

32

33

Treatment

- Behavior therapy, cognitive behavioral therapy, family therapy
- Opioid antagonists, SSRIs
- Mutual-help groups (Gamblers Anonymous)



NDC 0006-1170-01 100 TABLETS

Naltrexone
Hydrochloride
Tablets USP
So mg | Se only

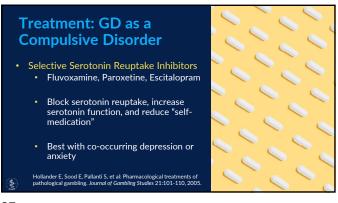
Each habit contains
Vallescente hydrochloride USP 50 mg
Wildescente hydrochloride USP 50 mg
Wildescente hydrochloride USP 50 mg
Wildescente hydrochloride USP 50 mg
Wildescente hydrochloride USP 50 mg
Wildescente

Treatment: GD as an Impulsive Disorder

- Opioid Antagonists
 - Naltrexone and Nalmefene
 - Block opioid receptors, decrease dopamine function, and reduce "reward cravings"
 - Best with family history of alcoholism

Grant JE, Kim SW, Hollander E, et al: Predicting treatment response to opiate antagonists and placebo in the treatment of pathological gambling. Psychopharmacol 200:521-527, 2008. Grant JE, Potenza MN: Pathological Gambling: A Clinical Guide to Treatment. Washington.

35 36



Sertraline for Alcohol Use Disorder

Abstinence rates during a 14-week treatment trial with sertraline 200mg daily

Helped late-onset drinkers (type 1)

Worsened early-onset drinkers (type 2)

Pettinati, Alcohol Clin Exp Res, 2000.

37 38



The Evolution of GD

DSM-IV-TR

Not found

DSM-5

Conditions for Further Study

American Psychiatric Association: Diagnostic and Statistical Manual of Mental Disorders, 5th Edition. Washington, DC: American Psychiatric Association, 2013.

39 40

DSM-5 Criteria DSM-5 Addiction Criteria, plus Has deceived family, therapists or others about the amount of gaming Uses games to escape/relieve negative mood (Excludes Internet gambling, recreational/social Internet use, sexual websites) American Psychiatric Association: Diagnostic and Statistical Manual of Mental Disorders, 5th Edition. Washington, DC: American Psychiatric Association, 2013.

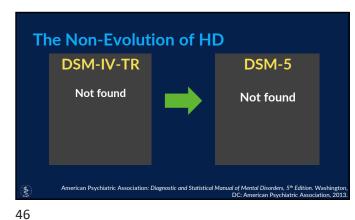


42









45 4

Proposed Criteria

Recurrent sexual fantasies/urges/behaviors with 3 or more:
Time spent interferes with other non-sexual obligations
Repetitive engaging in response to dysphoric mood states
Repetitive engaging in response to stressful life events
Repetitive but unsuccessful efforts to control behavior
Repetitive engaging while disregarding risk for physical/emotional harm to self or others

Specify if:
Masturbation, pornography, sexual behavior with consenting adults, cybersex, telephone sex, strip clubs

Kafka, MP. Hypersexual disorder: A proposed diagnosis for DSM-V. Arch Sex Behav 2010.

47

Is it real?

• Controversy about the criteria

• → But agreement there is out-ofcontrol, repetitive and driven sexual
behavior (typically with strangers) which
leads to distress and dysfunction

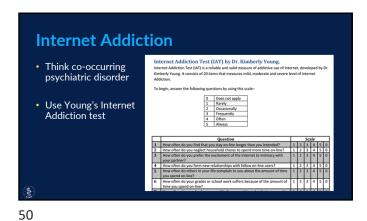
• Sexual encounter = pleasurable

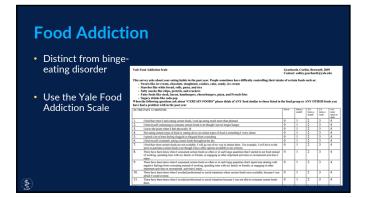
• Sexually addictive behavior = serves
to manage and control negative
affect

• Often poor insight

48







Exercise Addiction Apply modified DSM-5 criteria for SUD to diagnose

52 51

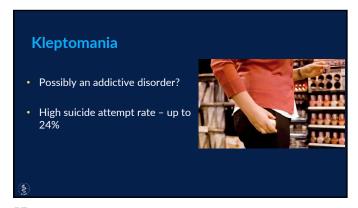


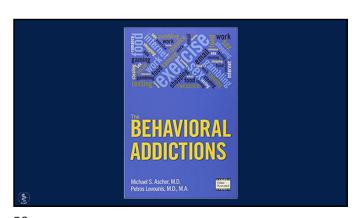
Shopping Addiction (Compulsive Buying Disorder) • More common among women in developed countries • 2 - 8% prevalence in the U.S.

53 54

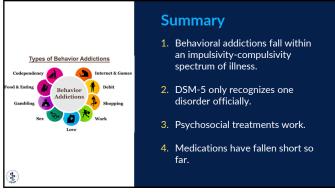








57 58





59 60

Which of the following behavioral addictions is included in the DSM-5 under "Substance-Related and Addictive Disorders"?

A. Internet Use Disorder
B. Gambling Disorder
C. Internet Gaming Disorder
D. Hypersexual Disorder

Research shows that gambling disorder involves the strongest effect on which of the following neurotransmitters?

A. DA
B. GABA
C. Ach
D. Endorphins

61 62

Which of the following medications has some evidence for the treatment of gambling disorder?

A. Memantine
B. Naltrexone
C. Aripiprazole
D. Clonidine