



Session 8

Gluttony: The Modern Binge

(Steve Bollman)

St. Gregory the Great

“When pride, the queen of sins, has fully possessed a conquered heart, she surrenders it immediately to seven principal sins ... vain glory, envy, anger, melancholy, avarice, gluttony, lust.

- Moralia 31.xlv



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The Issue of Desire

“When the woman saw that the tree was good for food, and that it was a delight to the eyes, and that the tree was to be *desired* to make one wise, she took of its fruit and ate; and she also gave some to her husband, and he ate.”

- Genesis 3:6

“Let no one say when he is tempted, ‘I am tempted by God’; for God cannot be tempted with evil and he himself tempts no one; but each person is tempted when he is lured and enticed by his own *desire*. Then desire when it has conceived gives birth to sin; and sin when it is full grown brings forth death.”

- James 1:13-15

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An Internalized Struggle

“The harmony in which they had found themselves, thanks to original justice, is now destroyed: the control of the soul's spiritual faculties over the body is shattered; the union of man and woman becomes subject to tensions, their relations henceforth marked by lust and domination. Harmony with visible creation is broken.

- Catechism #400

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Gluttony distorts our food consumption.
It is more complex than you might think.



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Gluttony?

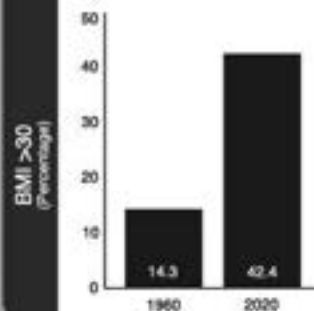
Hot Dog Champion

- ▶ Joey Chestnut
- ▶ 76 hot dogs (and buns) in 10 minutes.
- ▶ 22,800 calories in 10 minutes!
- ▶ Lemon water fast for 2 days prior to the competition.
- ▶ Body begins sweating profusely.
- ▶ Immediately goes to lay down and sleep.
- ▶ Takes days to recover.

World Record!



An Epidemic



Source: CDC Health Statistics

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Food and the Reward System

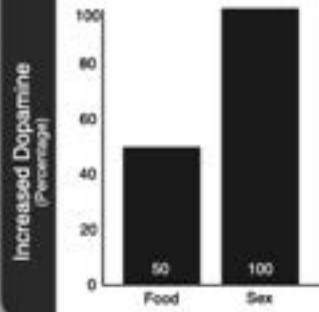
A Familiar Dynamic

- Eating activates the reward center in the brain, releasing dopamine.
- The brain builds a tolerance to dopamine.
- Individuals with a BMI in the obese category show decreased dopamine response in the brain.
- Alcohol: 200% dopamine increase
- Nicotine: 200% dopamine increase
- Cocaine: 400% dopamine increase
- Amphetamines: 1000% dopamine increase.

The Brain's Reward System



Dopamine



Source: Coats, J., "The Hour Between Dog and Wolf," Penguin Books, NY, 2012, p. 148.

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The Reality of "Being Hungry"

A Timing Issue

- When you're hungry, the stomach releases ghrelin, which activates the hypothalamus to seek food.
- Leptin, released by fat cells, signals the hypothalamus to suppress hunger.
- Stretch receptors (stomach) send electrical signal through spinal cord.
- After satiation, it takes 15-20 min to switch off hunger mode.
- The hot dog eating contest lasts 10 minutes!

The Brain's Reward System



A Decision-Making Issue

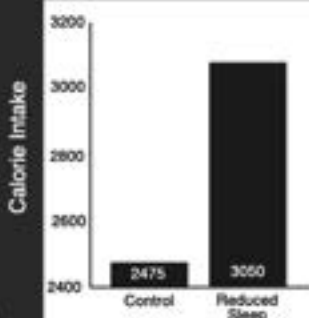
- Decision making is controlled by the frontal cortex in the brain.
- Stress decreases function in the frontal cortex leading to impaired decision making.
- Lack of sleep decreases function in the frontal cortex leading to impaired decision making.
- "Being hungry" reduces glucose necessary for decision making in the frontal cortex.
- Decisions driven by impulse.

Source: Lewis, J., "The Science of Sin," Bloomsbury Sigma, London, 2018, p. 66.

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Decision Making Under Stress

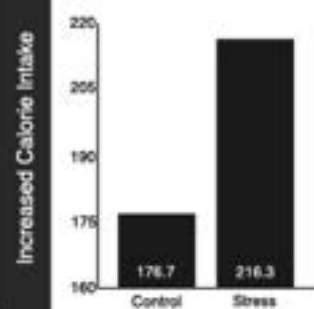
Sleep Deprived



The Brain's Reward System



Stress



Source: Spaeth, A., et al., "Effects of Experimental Sleep Restriction on Weight Gain, Caloric Intake, and Meal Timing in Healthy Adults," *Sleep*, July 1, 2013, 36(7): 981-990

Sources: Epel, E., et al., "Stress may add bite to appetite in women: a laboratory study of stress-induced cortisol and eating behavior," *Psychoneuroendocrinology*, 2001.

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Excessive Drink is Also Gluttony

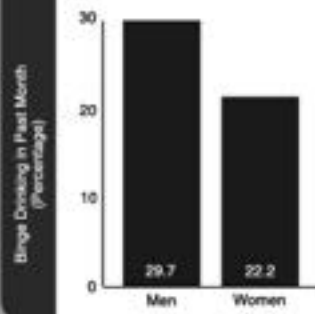
The Same Dynamic

- ▶ Drinking alcohol activates the reward center in the brain, releasing dopamine.
- ▶ The brain builds a tolerance to dopamine.
- ▶ The brain receives more dopamine from alcohol than food or sex.
- ▶ The same factors also impact alcohol consumption: sleep, stress.
- ▶ Anticipation is critically important for alcohol consumption. More than 1/3 of dopamine is before the drink.

The Brain's Reward System



Binge Drinking



Source: National Institute on Alcohol Abuse and Alcoholism, accessed February 17, 2022.

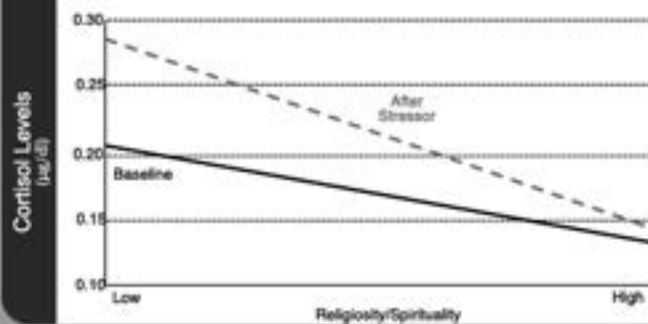
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God as the "Stress Reset Button"

A Familiar Dynamic

- ▶ Our relationship with God transforms the stress response in the body.
- ▶ More religious individuals have lower resting cortisol levels.
- ▶ More religious individuals have a lower cortisol reactivity to stressful events.
- ▶ Prayer and forgiveness were the religious factors most related to the stress response.
- ▶ Stress reduction helps food issues.

God and the Stress Response



Source: Tartaro, J., et al., "Exploring Heart and Soul: Effects of Religiosity/Spirituality and Gender on Blood Pressure and Cortisol Stress Responses," *Journal of Health Psychology*, v. 10, 2005, Figure 2.

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Historically, gluttony relates to food consumption.



There is another type of gluttony today.

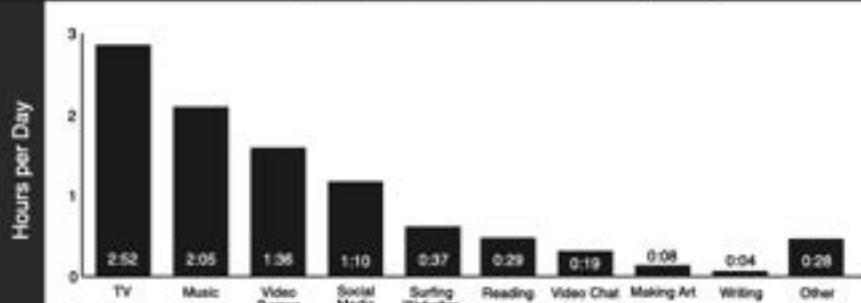


It also profoundly impacts the brain.

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Binging on the Media

Media Consumption by 13–18-Year-olds – 9:49 Hours per day



Source: Common Sense Media, 2019 The Common Sense Census: Media Use By Teens and Teens.

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Gaming Gluttony

Binge Gaming

- The Internet Café born in Korea for video gaming.
- High speed internet connects and gaming computers.
- Open 24/7 and especially attractive to young males.
- Massively Multiplayer Online Games (MMOG) where 100,000's users are connected online for a game.
- Gaming activates the same reward circuitry we have seen in lust and gluttony. It is addictive.

The Internet Café



Life and Death

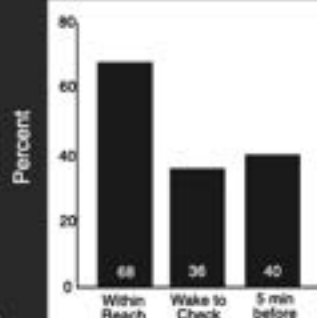
- Chen Jung-yu – 23-year-old Korean man.
- Paid for 23 straight hours of World of Warcraft. Died after 10 hours.
- No one noticed until the clerk came to say, "Time up."
- Clerk called police.
- Other gamers continued playing.
- Multiple day binges are common. Deaths are not uncommon.
- Another man died after 5-day binge.

Source: Taipei Times, February 4, 2012.

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Disrupted Sleep

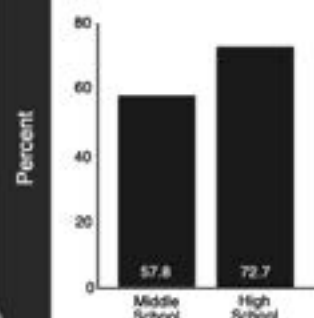
Mobile Phone Reality



The New Normal



Sleep Deprivation



Source: Common Sense Media, "Screens and Sleep-The New Normal: Parents, Teens, Screens, and Sleep in the United States, 2019.

Sources: The Sleep Foundation, accessed February 17, 2022.

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Overcoming each of the deadly sins is challenging.



With the help of God's grace, it is possible.



Our good friend: Don Bosco

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Don Bosco and Food

The Miracle of the Chestnuts

- ▶ November 1, 1849.
- ▶ Promised roasted chestnuts to 600 boys who completed Exercise for a Happy Death.
- ▶ Mamma Margaret cooks only 1 pot.
- ▶ Chestnuts are depleted with over 400 boys remaining.
- ▶ Don Bosco multiplies the chestnuts in front of 600 boys.
- ▶ Miracle is still commemorated in Salesian Oratories.

Don Bosco



A Mortified Palate

- ▶ Don Bosco frequently stayed out late at night on business and arrived home after the boys were in bed.
- ▶ He didn't want to wake them, so he came in without turning on lights.
- ▶ One night he grabbed a bowl from the icebox and ate it in the dark.
- ▶ Next morning boys asked him how he like the polenta. "Great."
- ▶ They informed him that he grabbed the wrong bowl and ate a bowl of book binding paste.

Source: Lappin, P., "Give Me Souls: Life of Don Bosco," Salesiana Publishers, New York, 1986, pp. 295-296.

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We must eat.



Therefore, we must overcome the challenges of
gluttony.



There are practical steps you can take.

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Practical Advice

- Go to Confession immediately after failing.
- Do not eat alone. Use meals to build bonds.
- Stop to eat. Don't eat at your desk or in your car.
- Eat your meals more slowly so that the satiation response can kick in.
- Get adequate sleep – at least 7 hours per night.
- Develop a robust prayer life to reduce stress.
- Turn off the media – induces stress and eats up your time.
- Get professional help if needed.

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Session 8

- When was the last time something about your food or drink was disordered?
- In what ways do you binge on the media or technology?
- Which of the practical steps regarding do you need to begin today?