

Welcome to 'Harbucks' Virtual Coffee House

Learning and the Brain: Wired 24/7 Oct. 30, 2020



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Reduce the Negative Impact of Technology Usage on

Brains and Development

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- Has the Smartphone Destroyed a Generation? (Jean Twenge, The Atlantic, 2017)
- Are video games turning lots of boys into addicts?
- Does the current financial model of the internet imperil our kids? (The Social Dilemma, Netflix, 2020)
- The average age of exposure to pornography is eight.







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Tech Has Always Been Complicated...

- Dr. Stixrud:
 - Study: Classroom use of cell phones lowers test scores



- Study: Restricted screen time = higher mental performance
- Forget screen time rules... learn to parent your "wired child"











- Feeling safe is key to sleep, health, success and well-being.
- Self-regulation is a better predictor of academic and life success than IQ.
- Technology can "get in the way" of these truths.









Another Universal Truth: Rest is

Important

- "Rest is the basis of activity"
- "While even school-age children are familiar with the food pyramid, virtually no child is taught about the life pyramid, which has sleep at its base." -Mary Carskadon, pediatric sleep researcher
- Rest protects us from stress. Excessive screen time interferes with rest.









Tech Getting in the Way:

- 90% of teens sleep with their phone
- Remember:
 - Face to face communication is crucial for intimacy and empathy.
 - Meditation and mindfulness are good for everything.







Young People: A Mental Health Crisis

- Unprecedented levels of anxiety, depression and loneliness in teens
- 56% increase in suicides 10-24 y.o.'s between '07-'17
- Big increase in suicide in kids 5-11
- Pressure to achieve RWJ Foundation (2017)
- Does it get better in college? (No)













Anxiety and Depression

- They are highly related stress-based disorders
- The weight of anxiety is worrisome
- Anxiety and depression are 30-40% heritable
- A formula for becoming anxious or depressed: "Be too tired and too stressed for too long."





The Prefrontal Cortex and the Amygdala

- These are structures/areas in the brain
- These areas are associated with mood/anxiety disorders
- Also known as the biological reward system
 - "Things that feel pleasant are reinforced"
- Happiness (long-lasting, assoc with being with others)
 - serotonin
- Pleasure (short-lived and can be addictive, being solo)
 - dopamine













"Kids Today are Wired Differently"

- Say researchers: Jukes, Rosen, Gardner
- They gorge on a constant media diet
- Then need speed and immediacy
- They believe they must always multi-task
- They want communication 24/7
- They think of the world as an ensemble of apps
- They avoid questions for which there are no apps
- They're more anxious, risk averse and socially isolated
- Video gamers can have trouble connecting in the real world
- A young person's brain is more vulnerable to addiction (plasticity)







Concerns about Social Media

- Bullying and harassment
- Language and content
- Stress from hyper-connecting
- External locus of control
- Self-preoccupation, narcissism
- Lack of privacy
- Imposter syndrome
- Reduction in empathy



Concerns about Social Media

- Study: (2017) Royal Society for Public Health Surveyed 1,500 14-24 y.o.'s
 - Snapchat, FB, Twitter, and Instagram: anxiety, depression, loneliness, poor body image. (Instagram was worst)
 - YouTube not adverse, no comparisons
 - No direct causal link but teens who use heavily show lower self esteem and higher anxiety and depression.

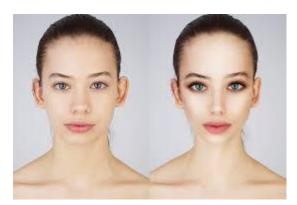




Selfie Harm "Social Media Ready"-Rankin









Kids Attitudes Toward Social Media

(Pew Research Center 2018)

- Helps connect with friends (81%)
- Helps show their creative side(71%)
- Helps interact with diverse group (69%)
- Overwhelmed by online drama (45%)
- Pressure to make themselves look good (43%)
- Feel worse about themselves (26%)











Empathy Instead of Eye-rolling

- "Can't you just get off your phone?"
 - Teens feel pressured to stay connected, feel burdened if peers are struggling, protecting friends
- "What are you even doing on there?"
 - Tiktok in COVID posting funny videos w/ families
- "Think before you post."
 - This warning can make kids more anxious,
 "peer-co-construction"





And Now for Some Suggestions...





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- Forget the idea of screen time for now it's how kids are staying connected to each other
- Model healthy use and balance
- Consider the 3 C's (child, content, context)
- Teach, mentor, use collaborative problem solving
- Empathy: try to understand their experience
- Use the crisis as an opportunity to help kids better understand tech and self





- Respectfully share our wisdom
- Ask kids how they feel when they use social media. Do they notice a ½ hr. cut point? (Doom scroll)
- Share your own tech challenges
- Help kids find their own moderation
- Watch "The Social Dilemma" together
- Be in nature, or put up posters of natural images
- Develop a meditation practice





- Find play "pods" for young children
- Sleep
- Don't try to scare kids about their digital footprint
- Encourage them to create a positive digital reputation
- Help them find their own reasons for moderation
- Mentor versus monitor
- Work out online conflicts face to face
- Be here now yourself
- If we do monitor, let them know
- Teach kids to communicate via text and explain text that lacks tone





- Use Radical Downtime:
 - Daydreaming or mind wandering
 - Meditation
 - Sleep
 - Half life of caffeine
 - Irritable \rightarrow tired
 - Sleep logs
 - Support later start times at high schools
 - 1st period \rightarrow free period for rest





- Emphasize creating rather than consuming
- Break up your tech time close eyes, stretch, walk
- Teach kids to say: "I'm not available all of the time." and "You don't always have to get back to me right away."
- Teach kids that most of the problems they encounter on the internet are late at night when they're tired and inhibitory control is down.









Suggestions for Schools

- Use tech to engage and convey content
- Don't use tech too early or too much
- Be careful to follow the research
- Keep focused on developing efficient brains
- Set up teams the include teachers, admins, students, and parents to focus on healthy tech and sleep



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Questions & Discussion



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THANK YOU FOR JOINING US!



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