

Objectives + Disclosures

1. No Disclosures

2. Review typical bio-social development in adolescents

2. Identify current generational characteristics of adolescent social behavior

4. Effects of social media on the developing adolescent

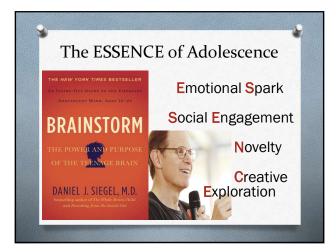
5. Current Research on social media and Adolescents

6. Key points + actions to share with colleagues, patients and families



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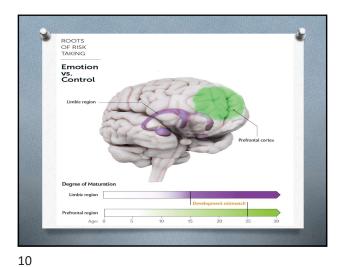




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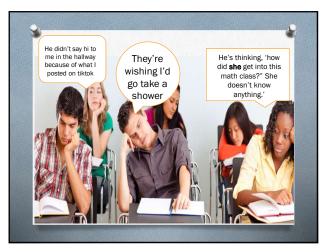
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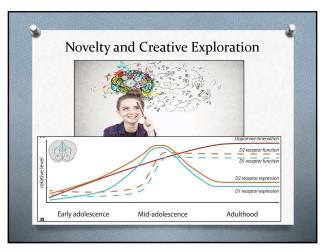




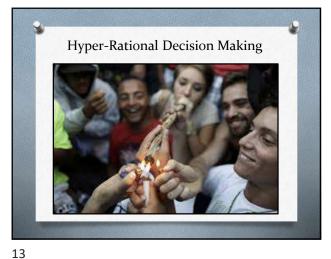


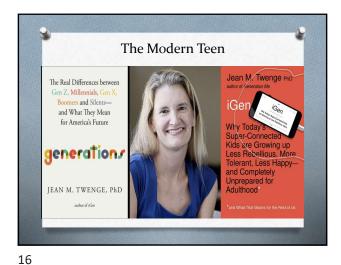






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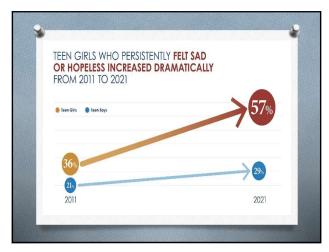


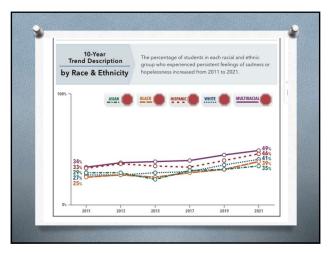




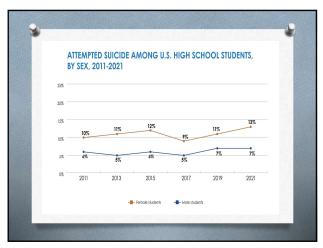


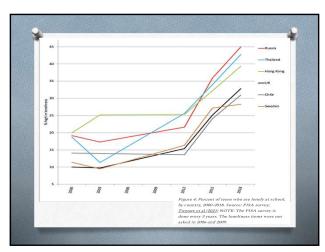




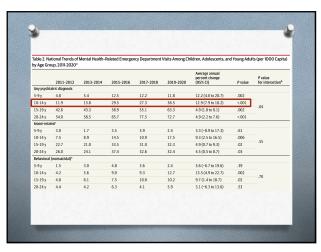


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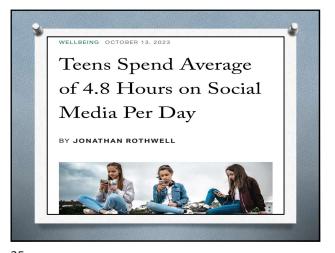


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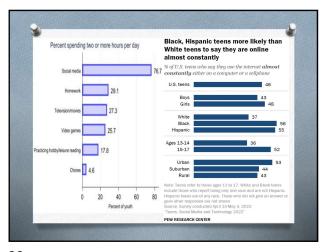
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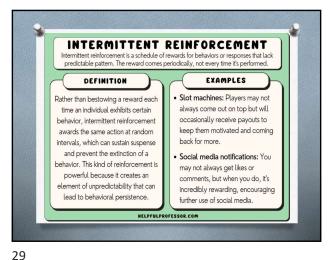


We've created a world in which online connection has become primary. Especially for younger generations. And yet, in that world, anytime two people connect, the only way it's financed is through a sneaky third person who's paying to manipulate those two people. So we've created an entire global generation of people who were raised within a context with the very meaning of communication, the very meaning of culture, is manipulation."

— Jaron Lainer, computer scientist and virtual reality pioneer

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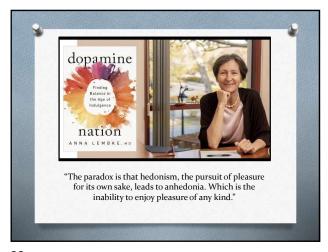
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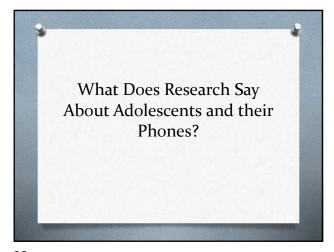


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"On balance, the data fail to support the contention that exposure to screen media generally, or social media and smartphones specifically, is associated with negative mental health symptoms." Ferguson, C. J., et.al (2022Like this meta-analysis: Screen media and mental health. Professional Psychology

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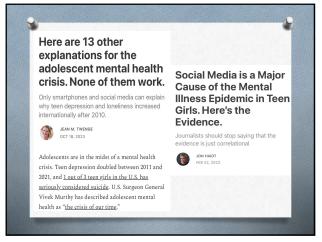
"Our findings contribute to a growing scholarly consensus that time spent on smartphones tells us little about young people's well-being." A. H. M., & Howard, A. L. (2023). Stress and Mood Associations With Smartphone Use in University Students: A 12-Week Longitudinal Study. Clinical Psychological Science, 11(5), 921-941.

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"Messages about the negative impact of screen time on the well-being of young people feature frequently in the media, the community, and political discourse. The current review suggests that this discourse may not accurately reflect the available scientific literature and that the magnitude of the effects when they can be measured range from small to very small. It is likely that the degree to which increases in screen time account for the recent rise in mental health problems among young people is negligible." Steinsbekk, Silje & Nesi, Jacqueline & Wichstrøm, Lars. (2023). Social media behaviors and symptoms of anxiety and depression. A four-wave cohort study from age 10–16 years.

Omputers in Human Behavior. 147



2. Does social media use at time one predict anything about mental health at time 2 ?

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1. Is there an association between social media use and bad mental health outcomes ?

Of the 40 longitudinal studies those that measure effects after one week of quitting social media (7), only 1 found an effect

Of the remaining 33 that measure effects after 3+ weeks, 24 found an effect

"Going cold turkey doesn't make you happy, it makes you anxious and dysphoric for a few weeks, so we should not expect to find benefits to mental health in the short interval"

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Percent of UK Teens Depressed as a Function of Hours per Weekday on Social Media

Girls

Boys

Boys

Figur 2 Pinces of UK abbiscens with "disially relevant deposite sympoms" by hours per weeklay of social media are including controls. Hade and Trongs created his payli from the data given in Table 2 of Kelly, Zilanavala, Booker, & Sacker (2019), page 6.

3. Do experiments using random assignment show a causal effect of social media use on adolescent mental health?

45 48

Out of 18 experimental studies, 12 found a causal effect.

In the 6 studies that did not show an effect participants had only reduced or eliminated social media for one week or less.

Those who limited their use after 4 weeks demonstrated reductions in loneliness and depression compared to control group

We find a positive and significant impact on girls but not on boys. Exploring the mechanism behind these effects, we show that HSI increases addictive Internet use and significantly decreases time spent sleeping, doing homework, and socializing with family and friends. Girls again power all these effects.

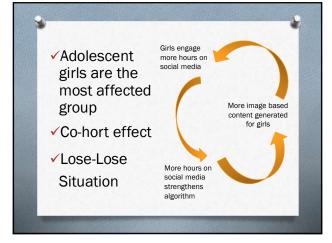
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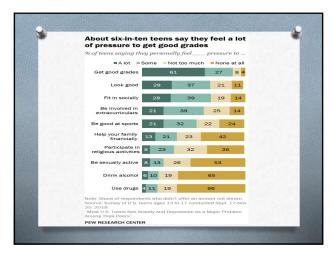
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We find that the roll-out of Facebook at a college increased symptoms of poor mental health, especially depression, and led to increased utilization of mental healthcare services. We also find that, according to the students' reports, the decline in mental health translated into worse academic performance. Additional evidence on mechanisms suggests the results are due to Facebook fostering unfavorable social comparisons.

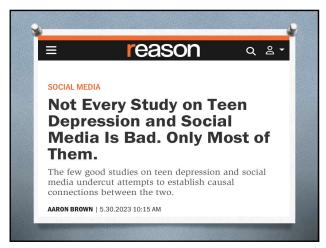


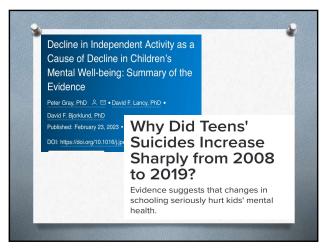
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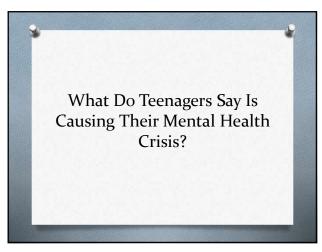


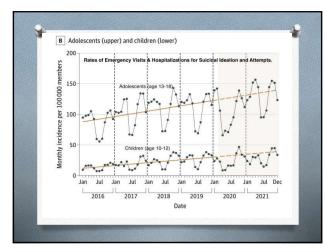
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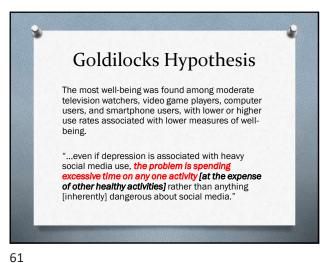


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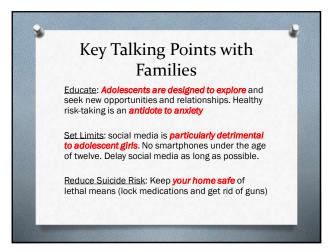


Key Talking Points with **Families** Healthy online behavior mirrors health real life behaviors: Parents can promote digital citizenship ✓ Joining platforms as a way to learn adapt to the language and passively observe what is posted ✓ Model time boundaries around electronics ✓ Provide education about the power of intermittent reinforcement and the financial gain of the creators of social media. Turn off notific ✓ Model open dialogue about their online social lives so that teens will come to them when victimized or upset



Actions for Professionals Ask patients about their social media use in a non-judgmental fashion. ✓ "What do you like about social media?" ✓ "Are there any downsides or dislikes?" ✓ "Do you set limits on how much time you spend on it?" Write letters to representatives advocating for protections

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Are we the masters of the tools we've created, or are the tools a master of us? "Technology has infused itself at a very intimate level with how we form our identity, how we form relationships, how we make choices, and make sense of the world...social media and the smartphone have allowed the influence and manipulation of human biases and weaknesses. They can overwhelm our psychology in ways that we simply aren't aware of. The prevalent business models in technology are entirely based on manipulating human weaknesses. Tristan Harris Co-Founder & President, Center for Humane Technologies former Design Ethicist at Google Interviewed by Vikas Shah MBE, @MrVikas https://thoughteconomics.com

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