

How Social Media and Computer Technology Can Help Students Succeed in School and Enhance Their Well-Being

Jim Larson, Ph.D.

Scientific Board – The Melissa Institute

Professor Emeritus

University of Wisconsin - Whitewater

How Can Social Media Help Us?



Fast Track Research Group

- 20-year retrospective with 753 kindergarten students from multiple sites, mostly Euro- and African-American
- Teachers rated social competence on 8 item scale (e.g., "Cooperates" "Shares" "Helpful" see handout)
- Among the findings, at age 25...

For every <u>one-point increase</u> on the 8 item scale, the child was...

- Twice as likely to attain
 a college degree in early adulthood;
- 54% more likely to earn a high school diploma; and
- 46% more likely to have a full-time job at the age of 25

For every <u>one-point decrease</u> on the 8 item scale, the child had a...

- 67% higher chance of having been arrested by early adulthood;
- 82% higher rate of recent marijuana usage; and
- 82% higher chance of being in or on a waiting list for public housing

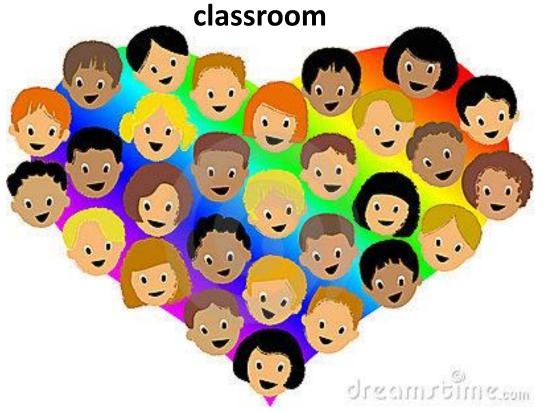


Dunedin Study

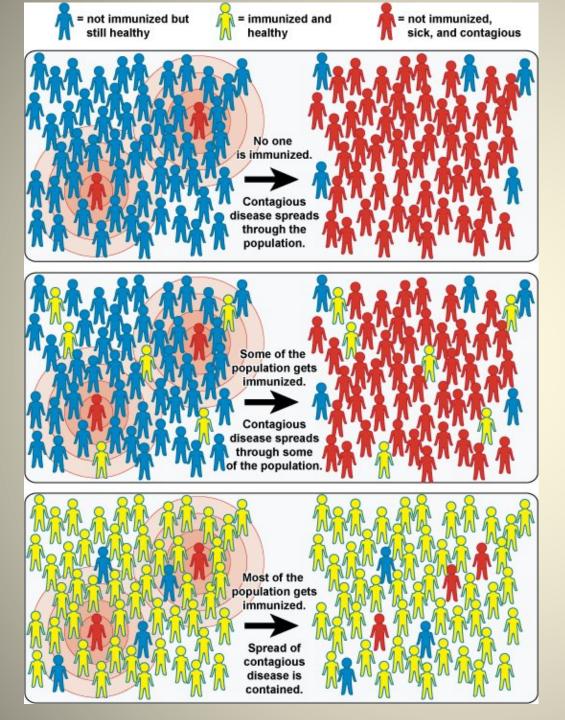
- Followed a cohort of over 900 children in New Zealand for over 35 years
- Researchers showed that a child's self-control at kindergarten age was a powerful predictor of a wide range of important outcomes later in life
- Including education, health, financial stability, and criminal conduct
- Stronger predictor than IQ or SES

PARENTS SEND US THE BEST KIDS THEY HAVE!

Imagine a hypothetical large city kindergarten



Conservatively, a 30% dropout rate converts to 9 students in a kindergarten class of 29



Herd Immunity

The greater the number of individuals who own protective factors against a contagious agent, the lesser the likelihood that others will succumb to it

Kindergarten year begins with (hypothetically) 3 children with significant behavioral challenges



By the time the year is over, the students with the fewest protective factors have begun to succumb

Creating "Behavioral Herd Immunity"

- Behavioral "contagion" is NOT a purely one-to-one correspondence (as are some diseases)
 - Social-emotional deficit is not a disease
 - Other very significant risk factors in play beyond peer effects
- BUT, social learning theory suggests:
 - Children engage in observational learning and use that information to adjust behavior (e.g., Bobo doll)
 - Teacher attention in an array of forms is reinforcing to many externalizing children
 - Children with fewer social-emotional skills will tend to seek the reinforcer via the most familiar pathways

By kindergarten, child should...

- 1. Recognize own feeling states
- 2. Recognize feelings in others
- 3. Show self-control of aggression
- 4. Play cooperatively with age-mates
- 5. Solve problems non-violently



The Goal

Increase the percentage of children with protective social-emotional competency who enter kindergarten

Kindergarten year begins with (hypothetically) 3 children with significant behavioral challenges



If more students arrive with the necessary protective factors to resist, the percentage with acquired risks who move on is reduced

The Questions

- Defining the knowledge and skill sets -
 - Which are the most critical?
- Reaching the hard to reach
 - Can interest, motivation and persistence be generated?
- Changing parenting behavior
 - Is the medium the message?



Two-Pronged Approach

Number 1:

- High Quality Preschool for all children 3-4
 using National Association for the Education of
 Young Children (NAEYC) and National Institute
 for Early Education Research (NIEER)
 standards
- High Scope or Creative Curriculum
- Florida's Voluntary Pre-Kindergarten

Two-Pronged Approach

Number 2:

- Parenting Skills Development
 - The Parent Academy
 - ACT Raising Safe Kids (Melissa Institute)
 - Others Florida Dept. of Children and Families

How can Internet technology and social media be used to reach and train parents?



Use of Online Resources for Parent Training

- <u>http://www.ncbi.nlm.nih.gov/pubmed/25351866</u> A randomized study of internet parent training accessed from community technology centers.
- http://www.ncbi.nlm.nih.gov/pubmed/26462968 Guided Internet-Based Parent Training for
- Challenging Behavior in Children With Fetal Alcohol Spectrum Disorder (Strongest Families
- FASD): Study Protocol for a Randomized Controlled Trial
- http://www.sciencedirect.com/science/article/pii/S0005796712000186 Internet-based
- parent management training: A randomized controlled study
- http://www.ncbi.nlm.nih.gov/pubmed/23607827 Web-based delivery of a preventive
- parent training intervention: a feasibility study.
- http://www.jmir.org/2012/5/e139/ Development and Testing of a Multimedia Internet-
- **Based System for Fidelity and Monitoring of Multidimensional Treatment Foster Care**
- http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2744504/pdf/nihms131714.pdf/?tool=pmce
- ntrez Expanding the Reach of Preventive Interventions: Development of an Internet-based
- **Training for Parents of Infants**
- http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4548016/ Decrease in Behavioral Problems
- and Trauma Symptoms Among At-Risk Adopted Children Following Web-Based Trauma-
- **Informed Parent Training Intervention**
- http://www.ncbi.nlm.nih.gov/pubmed/24844734- Web-based parenting skills to reduce
- behavior problems following abusive head trauma: a pilot study.
- http://jgcp.ku.edu/1d-web-based-parenting-intervention-mothers Web-based Parenting
- Intervention for Mothers of Infants At-Risk for Maltreatment

Stanford Study

- One Step at a Time: The Effects of an Early Literacy Text Messaging Program for Parents of Preschoolers (York & Loeb, 2014)
- Low income families -- but 80% had unlimited texting
- Three texts every week: FACT, TIP, GROWTH
- Total cost about one dollar per family
- Being piloted in MDCPS VPK (?)

FACT: Beginning word sounds are essential for reading. You can help your child learn to read by saying the beginning sound of words.

TIP: Say two words to your child that start with the same sound, like happy & healthy. Ask: can you hear the "hhh" sound in happy & healthy?

GROWTH: By saying beginning word sounds, like "ttt" in taco & tomato, you're preparing your child 4K. Now, have your child make the "ttt" sound

Kindergarten students whose parents were exposed to social and emotional training using computer technology and social media will show higher levels of observed social and emotional skills at entrance

What If?

- Parents were taught how to increase their child's social and emotional competency via social media and other Internet technology?
 - May be a stronger predictor of school success and positive later life outcomes than academic skills alone
 - May help provide that protective factor that contributes to herd behavioral immunity

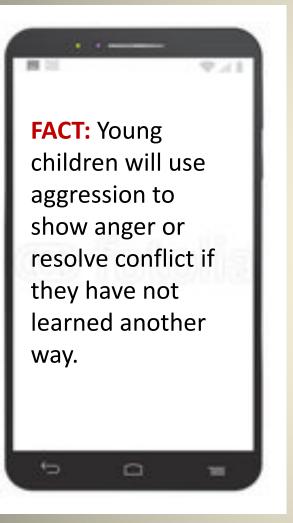
Text-Based Social and Emotional Skills

FACT: Because there are many children and few adults, schools use rules to help keep order. Learning to use a rule to guide behavior is a skill.

TIP: Teach your child a simple rule to guide his or her behavior, such as, "The rule is wash your hands before supper." or "The rule is brush your teeth before bedtime."

GROWTH: By setting and using rules, you are preparing your child for success in a classroom of many other children. Ask your child to suggest a rule.

Text-Based Social and Emotional Skills



TIP: Teach your child to say, "I don't like it when you do that." when he or she is upset at another child's behavior. Practice it first.

GROWTH: By teaching nonviolence, your child will have more choices when he or she is upset by another child. Praise your child for using non-violence

Pew Research Center Data

- 90% of adults 18-29 use social media
- 50% of adults with lowest income use SM
- 71% of all online adults use Facebook
- 23% of all online adults use Twitter
- 26% of all online adults use Instagram
- 52% of online adults now use 2 or more social media sites, up from 42% in 2013



- Start a Facebook page dedicated solely to parents raising preschool children...and friend everybody
- Publicize and direct parents to page
- Have a Tip of the Day...Every day
- Allow parents to post their own problem-solving successes
- Post short reviews of relevant toys, books, and media
- Post related video links from YouTube or home made from Vimeo



- Start an SEL Parent Twitter account
- Use multiple media to build following
- use hashtags to training tips and information (e.g., #4kparents)

 Produce 30-second video models of tips for Twitter or Facebook

meo

https://www.youtube.com/watch?v=voqBgdtKq_U

Reduction in crime as a result of one year increase in schooling

Moretti, E. (2007)Crimes and the cost of criminal justice. In Belfield and Levin (Eds.), The price we pay. Brookings Institution

 Murder 	30%
Assault	30%
 Vehicle theft 	20%
Arson	13%
 Burglary 	6%
 Larceny 	6%

Savings in crimes prevented as a result of 1% increase in male high school graduation

(Moretti, 2007)

•	Murder	\$ 1.12	billion
•	Rape	\$ 139	million
•	Robbery	\$ 8.6	million
•	Assault	\$ 368	million
•	Burglary	\$ 9.3	million
•	Larceny/theft	\$ 7	million
•	Car theft	\$ 18	million
•	Arson	\$ 18	million

The Challenge

- Are we leaving a potentially valuable tool to increase school success sitting in the box?
- \$110,000 per year to house a child in corrections vs. cost of a single Social Media Training Specialist position
- Melissa Institute's role
- Higher education role
- Parent Academy role
- Your role

