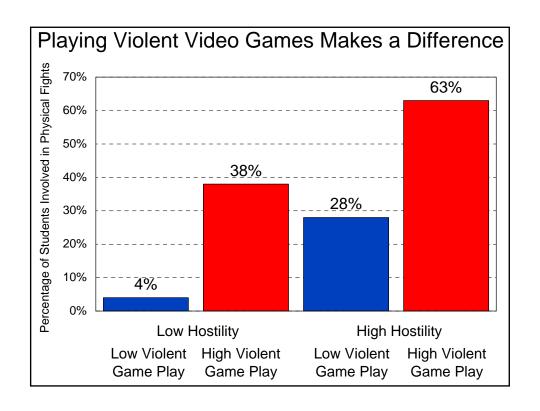


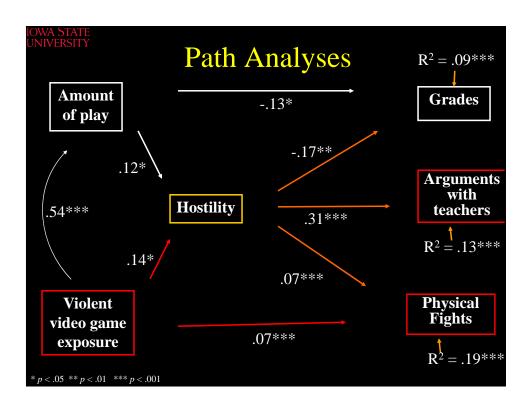
NIVERSITY Correlations with Exposure to Video Game Violence among Adolescents (Gentile, Lynch, Linder, & Walsh, 2004)

- Hostile attribution bias (r = .11)
- Arguments with teachers (r = .20)
- Physical fights (r = .32)
- Negatively correlated with grades (r = -.23)



All correlations p < .001





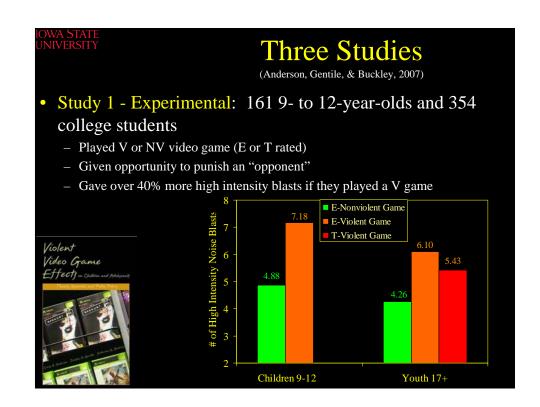
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The Good News

- Children who report that their parents "always" check the ratings before allowing them to play:
 - get into fewer physical fights
 - have better grades in school







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Study 2



- Correlational: 189 high school students
 - Playing violent games linked to:
 - More pro-violence attitudes
 - More hostile personalities
 - · Less forgiving
 - Believe violence to be normal
 - Use more physical aggression in their every day lives (even controlling for sex, total screen time, aggressive beliefs and attitudes)

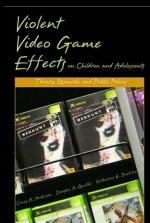
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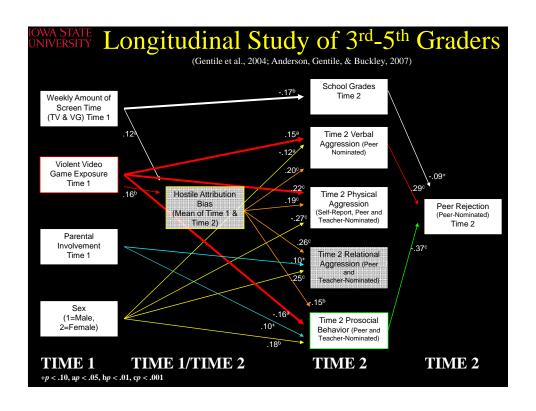
Study 3 - Longitudinal

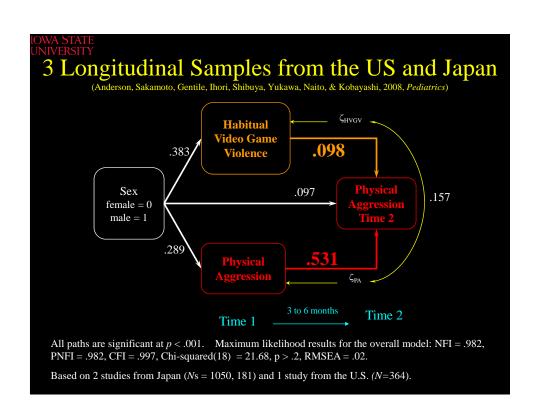
(Anderson, Gentile, & Buckley, 2007)

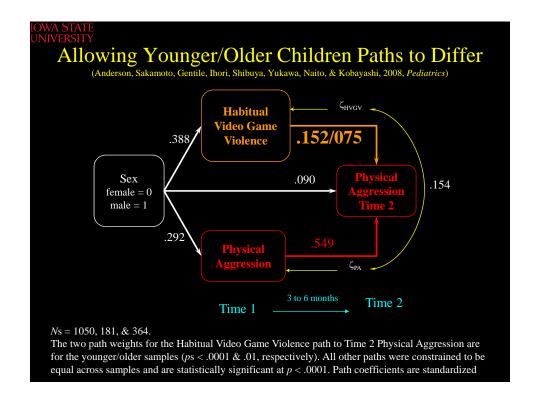
Participants

- 430 3rd (N = 119), 4th (N = 119), & 5th (N = 192) graders
- Five MN schools:
 - 1 Private, 4 Public
 - 4 Suburban, 1 Rural
- 51% Male, 49% Female
- 7-11 (M = 9.7; SD = 1.0)
- 86% Caucasian





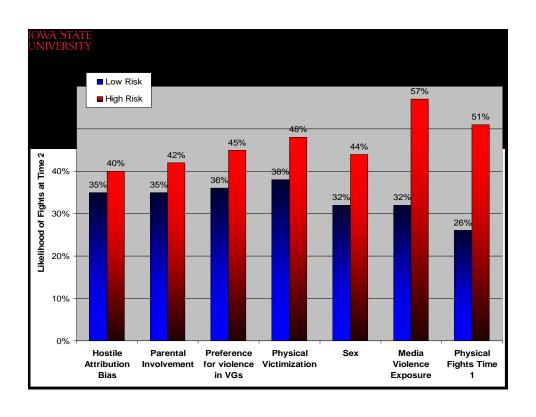


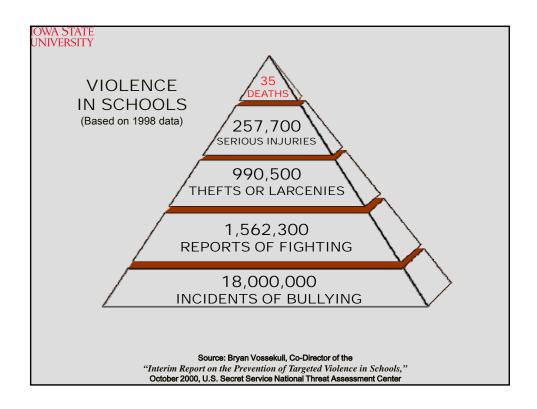


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Although there are far fewer studies of the effects of prosocial video games, the research suggests that playing games where you help and support other characters increases prosocial behaviors, both in the short term and the long term.







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Implications for Public Policy

- Should governments be involved?

 It's unclear to me that they should, but if they are, where would they be most effective?
- One important role for government is to provide a public forum for discussion about media effects
 - Scientists often have difficulty presenting the data in a way the public can understand



Also important to get the information out correctly

In America

Almost all policy has been directed at access restriction

- Ineffective for several reasons
 - Struck down by the courts as unconstitutional
 - How would we define what to restrict?
 - Most games include violence, regardless of rating

Using The ESRB's Ratings (Gentile, 2008) Rating E10+ \mathbf{R} \mathbf{T} \mathbf{M} % with any violent content 31% 91% 91% 89% 1% 17% 19% % with any sexual content 18% 8011 296 3059 1034 Number of Games Rated: E (Everyone) E10+ (Everyone 10 and older) These are likely underestimates -T Content analysis of E games (Teens ages 13 and older) M (Mature; 17 and older) showed 64% included violence (Adults only; 18 and older) AO (Thompson & Hanninger, 2001)

In America

Almost all policy has been directed at access restriction

- Ineffective for several reasons
 - Struck down by the courts as unconstitutional
 - How would we define what to restrict?
 - Most games include violence, regardless of rating
 - Not all violence is equal
 - What matters may be whether you practice intentional harm to victims; Blood and gore may not matter much
 - Therefore, using ratings for policy cutoffs is likely to be ineffective

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The Implications?

- There are probably many more effective policy options than access restriction, but we almost never consider them
 - We should improve ratings
 - We should get research-based information to the public, so that they understand why they should use ratings
 - We should be doing more media education
 - We could consider other levels of policy, such as in medical schools, parent education, etc.

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Ratings Improvement May be the Best Place to Start



Research on the ESRB ratings in the US shows:



- A lack of scientific reliability
- A lack of validity



Furthermore, parents would prefer content information to age-based ratings



(see Gentile, 2008 and Gentile, Humphrey, & Walsh, 2005, for details)



















Ratings: Scientific Reliability



Not reliable

- Several types, all of which are important
 - Inter-rater reliability: Judges rate the same way
 - Consistency: Different media products with same content should get same rating
 - Temporal stability: Ratings would not shift across time (e.g., ratings "creep")

Note that all these require *clear definitions* of what is being rated





Scientific Validity



Reliable but not valid

- Ratings *must* be reliable in order for them to have a chance at being valid
- Validity: Ratings accurately measure what they are intended to measure



- Content validity: Measures what it claims to
- Construct validity: Measures relate appropriately to other relevant constructs
- Criterion validity: Measure corresponds to other measures already shown to be valid

How Often Do You Use the Ratings to Decide?

(2007 Harris Poll)

Movie TV VGs
Every time 24% 13% 16%

• Most of the time 24% 18% 18%

• About half the time 11% 13% 7%

• Rarely 13% 18% 14%

• Never 16% 24% 24%

I don't do this 12% 14% 21%

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Conclusion about Ratings

- Clearly, parents recognize that the ratings have real problems with reliability and validity
- They do not provide the information parents want
- This explains why parents do not use them regularly
- Parents are ready for a change

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Summary

- Until recently we were lacking good longitudinal research on the effects of violent video games
- The evidence now seems clear that games are a causal risk factor for aggression, both in the short-term and in the long-term
- Nonetheless, they are only one risk factor for aggression among many
- If we could do only one thing, providing reliable and valid content ratings to parents would probably be the most valuable

For more information, see Gentile, Saleem, & Anderson (2007) available at www.DrDouglas.org

