Findings from the Virginia High School Safety Study
Dewey Cornell, Ph.D.
Curry School of Education
University of Virginia
434-924-8929
Email: youthvio@virginia.edu
Website: youthviolence.edschool.virginia.edu

Dewey G. Cornell, Ph. D., is a forensic clinical psychologist and Professor of Education in the Curry School of Education at the University of Virginia. Dr. Cornell is Director of the UVA Youth Violence Project and a faculty associate of the Institute of Law, Psychiatry, and Public Policy.

Dr. Cornell has studied youth violence for over 20 years and has assisted numerous schools in the development of violence prevention programs. He has authored more than 100 publications in psychology and education, including two recent books: Guidelines for Responding to Student Threats of Violence and School Violence: Fears versus Facts.

The disconnect between youth violence and school safety practices

From No Guns to
• No Toy Guns
• No Nail clippers
• No Plastic utensils
• No Finger-pointing
• No Jokes
• No Drawings
• No Rubber band shooting
• No Accidental violations

The disconnect between youth violence and school safety practices: Zero Tolerance

5 teens charged in burning of Florida 15-year-old

Michael Brower was burned as 89% of his body after being docked for violating school rules. Authorities say the attack resulted from a dispute between Brower and another boy.

Four teens charged in fatal beating of Chicago student
Findings from the Virginia High School Safety Study
Dewey Cornell, Ph.D.

Virginia High School Safety Study

Conducted by a research team at the Curry School of Education (Cornell, Gregory, Fan, & Sheras)
In collaboration with:
- Virginia Department of Education
- Department of Criminal Justice Services and Center for School Safety
Funded by U.S. Dept. of Justice, Office of Juvenile Justice and Delinquency Prevention

Conceptual model for study
Two strategies underlie school safety efforts:
1. Structure – school discipline and order
2. Student support – efforts to support and engage students

How was the survey carried out?
Written and video instructions for:
- Principals
- Teachers
- Students

Who participated in the study?
296 of 314 schools (94%)
1. 7,431 ninth grade students
2. 2,353 ninth grade teachers

Curry School of Education, University of Virginia
http://youthviolence.edschool.virginia.edu
434-924-8929
Findings from the Virginia High School Safety Study
Dewey Cornell, Ph.D.

**Virginia High School Safety Study**

School climate factors
1. Structure
   - Rules are strictly enforced, but fair
2. Support
   - Teachers treat me with respect, willing to seek help from them.

**Bullying Climate Scale**

<table>
<thead>
<tr>
<th></th>
<th>Disagree/Strongly Disagree</th>
<th>Agree/Strongly Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bullying is a problem at this school.</td>
<td>53</td>
<td>47</td>
</tr>
<tr>
<td>Students here often get teased about their clothing or physical appearance.</td>
<td>29</td>
<td>71</td>
</tr>
<tr>
<td>Students here often get put down because of their race or ethnicity.</td>
<td>65</td>
<td>35</td>
</tr>
<tr>
<td>New students are made to feel welcome here by other students.</td>
<td>30</td>
<td>70</td>
</tr>
<tr>
<td>Students from different neighborhoods get along well together here.</td>
<td>28</td>
<td>72</td>
</tr>
<tr>
<td>There is a lot of teasing about sexual topics at this school.</td>
<td>45</td>
<td>55</td>
</tr>
<tr>
<td>Students at this school accept me for who I am.</td>
<td>19</td>
<td>81</td>
</tr>
</tbody>
</table>

**Victimization**

<table>
<thead>
<tr>
<th></th>
<th>False</th>
<th>True</th>
</tr>
</thead>
<tbody>
<tr>
<td>This year in school have any of the following happened to you personally in the school?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Damage to personal property worth more than $10.</td>
<td>85</td>
<td>15</td>
</tr>
<tr>
<td>Theft of personal property worth more than $10.</td>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>Was physically attacked and had to see a doctor</td>
<td>96</td>
<td>4</td>
</tr>
<tr>
<td>Was physically attacked, but not serious enough to see a doctor.</td>
<td>87</td>
<td>13</td>
</tr>
<tr>
<td>Received obscene remarks or gestures from a student.</td>
<td>49</td>
<td>51</td>
</tr>
<tr>
<td>Was threatened in remarks by a student.</td>
<td>72</td>
<td>28</td>
</tr>
<tr>
<td>Had a weapon pulled on me.</td>
<td>96</td>
<td>4</td>
</tr>
</tbody>
</table>

**The school rules are fair.**

<table>
<thead>
<tr>
<th></th>
<th>Strongly disagree</th>
<th>Disagree</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>10</td>
<td>32</td>
<td>51</td>
<td>7</td>
</tr>
</tbody>
</table>

**Adults in this school want all students to do their best.**

<table>
<thead>
<tr>
<th></th>
<th>Strongly disagree</th>
<th>Disagree</th>
<th>Somewhat agree</th>
<th>Agree</th>
<th>Strongly agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>3</td>
<td>5</td>
<td>22</td>
<td>35</td>
<td>36</td>
</tr>
</tbody>
</table>

**Virginia High School Safety Study**

<table>
<thead>
<tr>
<th>4 groups of schools</th>
<th>Structure</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hi</td>
<td>Lo</td>
</tr>
<tr>
<td></td>
<td>104</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>41</td>
<td>99</td>
</tr>
</tbody>
</table>

Curry School of Education, University of Virginia
http://youthviolence.edschool.virginia.edu
434-924-8929
Findings from the Virginia High School Safety Study
Dewey Cornell, Ph.D.

104 schools with high structure and high support had bullying at the 27th percentile.

Schools with least structure and support have the highest bullying, as perceived by teachers.

Schools with least structure and support have the highest student victimization.

Schools with least structure and support have the highest rates of bullying and student victimization.

Training Workshops

- Legally defensible procedures for responding to student threats
- Step-by-step guidelines and decision-free
- Research-based and field-tested
- Covers K-12, regular and special education

Available from sopriswest.com

Curry School of Education, University of Virginia
http://youthviolence.edschool.virginia.edu
434-924-8929
Findings from the Virginia High School Safety Study
Dewey Cornell, Ph.D.

Virginia High School Threat Assessment Study

95 high schools using the UVA threat assessment model vs 185 other Virginia public high schools.

Threat assessment is a problem-solving approach to violence prevention that considers the meaning and context of student behavior. It presents an alternative to zero tolerance.

School Psychology Quarterly, 2009

Study Findings for Virginia Model Schools

- Less bullying and other victimization
- Greater student willingness to seek help
- Perceive adults as more caring and fair
- Fewer long-term suspensions

Controlled for school size, poverty, minority %, school security measures, and neighborhood violent crime.

School Psychology Quarterly, 2009

One-page summaries sent to every high school

http://youthviolence.edschool.virginia.edu
Be Strict or Be Supportive

Debates about school safety often contrast strict discipline against more supportive approaches, but our study found support for both strategies. Schools that scored highest on measures of structure (students report that rules are strictly and fairly enforced) and support (students report that adults are supportive, caring, and willing to help) had lower levels of student victimization (such as theft, threats, and assaults) and bullying. As depicted below, schools low on structure and support were highest (61st to 66th percentiles) in measures of student victimization and bullying whereas schools high on structure and support were much lower (27th to 38th percentiles).

Practical Suggestions. In the safest schools, 9th grade students said that rules are strictly and fairly enforced, and that students were likely to be caught for infractions such as cutting classes, coming late to class, or smoking. At the same time, students also perceived that adults in the school really cared about all students, listened to what they had to say, and treated them with respect. However, zero tolerance policies were not associated with safer schools. Like a good parent, school staff members should be authoritative rather than authoritarian: communicating both high expectations and warm regard for their students.

Study Overview. The Virginia High School Safety Study was designed to identify effective policies and practices in Virginia public high schools. Safety conditions were measured using school discipline records, safety audit surveys, and surveys of approximately 7,400 9th grade students and 2,900 9th grade teachers in 294 schools. Study findings controlled for differences in school enrollment, percentage eligible for free/reduced price meals, and minority composition. This is a correlational study that can support, but not prove, causal relationships. The VHSSS was conducted by Dewey Cornell, Anne Gregory, Xitao Fan, and Peter Sheras of the Curry School of Education in collaboration with the Virginia Department of Education and Virginia Center for School Safety of the Department of Criminal Justice Services. The study was funded by the U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention. Study conclusions do not necessarily reflect policies or recommendations of these state and federal agencies. For more information, see the website for the Virginia Youth Violence Project: <http://youthviolence.edschool.virginia.edu>.
Practical Findings from the
Virginia High School Safety Study
Issue 2

How Should Schools Respond to Student Threats of Violence?

Since 2002, the Virginia Youth Violence Project in the Curry School of Education has provided training to Virginia school divisions on the use of threat assessment as an approach to violence prevention. According to the 2006-07 school safety audit survey completed by principals, 95 Virginia high schools are using the Virginia model, 54 have no formal process, and 131 have some other process, typically developed in-house. VHSSS survey results show that ninth grade students in schools using the Virginia model guidelines reported less bullying and victimization, greater willingness to seek help for bullying and threats of violence, and more positive perceptions of the learning environment (felt that teachers wanted them to do well and treated them fairly) than students in either of the other two groups of schools. In addition, schools using the Virginia guidelines had fewer long-term suspensions.

Practical Suggestions. The Virginia model trains staff to use a decision tree and published set of guidelines to assess the seriousness of student threats, quickly resolve most threats and take more extensive action in more serious, substantive cases. Threat assessment takes a problem-solving approach to resolve conflicts, bullying, and teasing before they escalate into violence. Zero tolerance policies are not needed in using this approach. Although these findings support use of the Virginia model, a correlational study cannot demonstrate that use of the model caused these differences among schools, and it is possible that schools using the Virginia model had other positive characteristics that were not controlled in this study. The three groups did not differ, however, in school size, minority composition or socio-economic status of the student body, neighborhood violent crime, or the extent of security measures in the schools.

Study Overview. The Virginia High School Safety Study was designed to identify effective policies and practices in Virginia public high schools. Safety conditions were measured using school discipline records, safety audit surveys, and surveys of approximately 7,400 9th grade students and 2,900 9th grade teachers in 294 schools. This is a correlational study that can support, but not prove, causal relationships. The VHSSS was conducted by Dewey Cornell, Anne Gregory, Xitao Fan, and Peter Sheras of the Curry School of Education in collaboration with the Virginia Department of Education and Virginia Center for School Safety of the Department of Criminal Justice Services. The study was funded by the U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention. Study conclusions do not necessarily reflect policies or recommendations of these state and federal agencies. For more information, see the website for the Virginia Youth Violence Project: <http://youthviolence.edschool.virginia.edu>.
Practical Findings from the Virginia High School Safety Study
Issue 3

How Much Teacher Victimization Occurs in Virginia High Schools?

Virginia High School teachers report low rates of serious victimization, although most teachers have had the experience of a student speaking to them in a disrespectful manner. The Virginia High School Safety Study surveyed 2,922 ninth grade teachers (average 10 teachers selected by random number per school) and asked them whether any of eight forms of victimization had occurred to them in school this year (spring 2007).

**Study Overview.** The Virginia High School Safety Study was designed to identify effective policies and practices in Virginia public high schools. Safety conditions were measured using school discipline records, safety audit surveys, and surveys of approximately 7,400 9th grade students and 2,900 9th grade teachers in 294 schools. This is a correlational study that can support, but not prove, causal relationships. The VHSSS was conducted by Dewey Cornell, Anne Gregory, Xitao Fan, and Peter Sheras of the Curry School of Education in collaboration with the Virginia Department of Education and Virginia Center for School Safety of the Department of Criminal Justice Services. The study was funded by the U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention. Study conclusions do not necessarily reflect policies or recommendations of these state and federal agencies. For more information, see the website for the Virginia Youth Violence Project: <http://youthviolence.edschool.virginia.edu>.

### School Variance in Teacher Victimization

<table>
<thead>
<tr>
<th>Victimization Category</th>
<th>% Answering True</th>
</tr>
</thead>
<tbody>
<tr>
<td>Had a weapon pulled on me.</td>
<td>.4</td>
</tr>
<tr>
<td>Was physically attacked and had to see a doctor.</td>
<td>1.1</td>
</tr>
<tr>
<td>Was physically attacked, but not seriously enough to see a doctor.</td>
<td>2.9</td>
</tr>
<tr>
<td>Damage to personal property worth more than $10.</td>
<td>13.6</td>
</tr>
<tr>
<td>Theft of personal property worth more than $10.</td>
<td>15.1</td>
</tr>
<tr>
<td>Was threatened in remarks by a student.</td>
<td>19.9</td>
</tr>
<tr>
<td>Received obscene remarks or gestures from a student.</td>
<td>43.1</td>
</tr>
<tr>
<td>Was spoken to in a rude or disrespectful manner by a student.</td>
<td>83.6</td>
</tr>
</tbody>
</table>

Note. Because ninth grade students have a higher rate of disciplinary infractions than other high school students, the victimization rates for these teachers may be higher than for other teachers.

Male teachers were more likely than female teachers to report having a weapon pulled on them, while female teachers were more likely than male teachers to report being spoken to in a rude or disrespectful manner. Teachers with more years of teaching experience reported slightly lower rates of victimization (in most categories) than less experienced teachers.

To examine schoolwide rates of teacher victimization, the eight categories were combined into an overall score, but because physical acts of aggression against teachers were so low, this score is largely a measure of verbal aggression. Multiple regression analyses found school enrollment size accounted for just 2% of the variance in teacher victim rates, the proportion of students eligible for free and reduced price meals (FRPM) accounted for 11%, and the proportion of minority students accounted for 8%. These three school demographics explained approximately 21% of the variance in teacher victimization. Although school demographics are important, there are substantial differences in teacher victimization even among large schools with demographically challenging student bodies.

**This year in school have any of the following happened to you personally in the school?**

<table>
<thead>
<tr>
<th>Victimization Category</th>
<th>% Answering True</th>
</tr>
</thead>
<tbody>
<tr>
<td>Had a weapon pulled on me.</td>
<td>.4</td>
</tr>
<tr>
<td>Was physically attacked and had to see a doctor.</td>
<td>1.1</td>
</tr>
<tr>
<td>Was physically attacked, but not seriously enough to see a doctor.</td>
<td>2.9</td>
</tr>
<tr>
<td>Damage to personal property worth more than $10.</td>
<td>13.6</td>
</tr>
<tr>
<td>Theft of personal property worth more than $10.</td>
<td>15.1</td>
</tr>
<tr>
<td>Was threatened in remarks by a student.</td>
<td>19.9</td>
</tr>
<tr>
<td>Received obscene remarks or gestures from a student.</td>
<td>43.1</td>
</tr>
<tr>
<td>Was spoken to in a rude or disrespectful manner by a student.</td>
<td>83.6</td>
</tr>
</tbody>
</table>

Note. Because ninth grade students have a higher rate of disciplinary infractions than other high school students, the victimization rates for these teachers may be higher than for other teachers.
Practical Findings from the Virginia High School Safety Study
Issue 4

How Can We Encourage Students to Seek Help to Prevent Violence?

Students may know in advance that a classmate is threatening to commit a violent act, but are reluctant to seek help. The VHSSS measured the willingness of 9th grade students to seek help for problems such as a classmate bullying, threatening, or bringing a gun to school. Schools varied widely in how willing their 9th grade students were to seek help from teachers or other adults at school. A hierarchical linear modeling analysis found that students were most willing to seek help in schools with a supportive school climate. Supportive climate was defined as student perceptions that their teachers care about them, listen to them, and treat them with fairness and respect. This finding held up across schools of different size and percentages of low income and minority students.

Because the student survey was conducted in the spring of 2007, it was possible to compare results before and after the April 16 shooting at Virginia Tech. The two groups of schools did not differ in student demographics, reports of victimization, or perceptions of school climate. However, students completing the survey after April 16 showed greater willingness to seek help from a teacher or staff member at school, suggesting that the event increased their awareness of the need to report threats of violence. Nevertheless, a substantial proportion (15-45%) of students remained unwilling to seek help for a threat of violence.

Practical Suggestions. Although the majority of students are willing to seek help, schools should encourage all students to come forward to prevent an act of violence. VHSSS results suggest that students will be more willing to seek help when (1) they are reminded of the serious consequences of violence and (2) believe that their teachers have positive regard and respect for them. Schools should strive for a school climate where students feel that their teachers treat them with fairness and respect. Students should be taught the difference between snitching (personal gain from getting someone else in trouble) and seeking help (no motive other than preventing violence).

Study Overview. The Virginia High School Safety Study was designed to identify effective policies and practices in Virginia public high schools. Safety conditions were measured using school discipline records, safety audit surveys, and surveys of approximately 7,400 9th grade students and 2,900 9th grade teachers in 294 schools. This is a correlational study that can support, but not prove, causal relationships. The VHSSS was conducted by Dewey Cornell, Anne Gregory, Xitao Fan, and Peter Sheras of the Curry School of Education in collaboration with the Virginia Department of Education and Virginia Center for School Safety of the Department of Criminal Justice Services. The study was funded by the U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention. Study conclusions do not necessarily reflect policies or recommendations of these state and federal agencies. For more information, see the website for the Virginia Youth Violence Project: <http://youthviolence.edschool.virginia.edu>.
Does School Safety Influence SOL Achievement?

Most Virginia high schools have a high passing rate on the Standards of Learning (SOL) tests, but those with greater student and teacher safety have an even higher rate. To measure school safety for students and teachers, our survey asked randomly selected samples of 9th grade students: (1) how frequently they are victims of thefts, threats, abusive language, and assaults (victimization); and (2) how much bullying and teasing they observe at school (bullying climate); and asked 9th grade teachers: (3) how often they are victims (teacher victimization); and (4) how much student bullying and teasing they observe at school (teacher perceptions of bullying climate).

Multiple regression analyses found that all four measures of safety were predictive of one or more of the schoolwide (grades 9-12) passing rates for English, Mathematics, History, and Science, even after controlling for the percentage of minority students and percentage of students receiving a free or reduced price meal in the school.

The charts show the passing rates for schools in the top third versus bottom third on each safety measure. For example, schools with student victimization rates in the top third of the state had an average Mathematics SOL passing rate of 86 percent, but schools with the lowest (safest) levels of victimization had an 89 percent average passing rate. Although the percent gains are small, they reflect schoolwide rates (grades 9-12) and they are consistent across all measures and they are statistically significant improvements above and beyond differences due to student demographics. Certainly the quality of academic instruction is critical to SOL achievement, but school safety conditions can make a clear difference in the school’s overall passing rate.

Practical Suggestions. Schools may be able to improve their SOL passing rates by improving school safety conditions. School should make systematic efforts to reduce victimization of students and teachers as well as the level of teasing and bullying among students. In previous reports, we pointed out the importance of a balanced approach to school safety that emphasizes both support for students and a clear and consistent discipline policy.

Study Overview. The Virginia High School Safety Study was designed to identify effective policies and practices in Virginia public high schools. Safety conditions were measured using school discipline records, safety audit surveys, and surveys of approximately 7,400 9th grade students and 2,900 9th grade teachers in 294 schools. This is a correlational study that can support, but not prove, causal relationships. The VHSSS was conducted by Dewey Cornell, Anne Gregory, Xitao Fan, and Peter Sheras of the Curry School of Education in collaboration with the Virginia Department of Education and Virginia Center for School Safety of the Department of Criminal Justice Services. The study was funded by the U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention. Study conclusions do not necessarily reflect policies or recommendations of these state and federal agencies. For more information, see the website for the Virginia Youth Violence Project: <http://youthviolence.edschool.virginia.edu>. 
Why do suspension rates vary so much from school to school?

In 2006-07, the typical Virginia high school issued 10-19 suspensions per 100 students, but there was a wide range, from 35 schools that had fewer than 5 suspensions per 100 students to 19 schools that had 30 or more suspensions per 100 students. Three high schools had rates that exceeded 50 per 100 students. Why do suspension rates vary so much from school to school? (These figures combine short and long-term suspensions and count suspensions rather than students, so that one student could be suspended multiple times and increase the school’s suspension rate).

We used hierarchical multiple regression to assess how much variance in suspensions was associated with population characteristics, starting with (1) Size of the student body, and then adding (2) Urbanicity (census population density per square mile); (3) Poverty rate (% of students eligible for free/reduced price meals); (4) Student commitment to school and belief in school rules (survey of 9th grade students); and (5) Minority composition (% nonwhite students).

As the pie chart shows, a total of 55.3% of the variance can be explained by school population characteristics – most notably student body size (29.5%; as would be expected, larger schools have more suspensions), poverty rate (16.3%), and minority composition (6.3%). Relatively little of the variance is associated with the urban-rural location of the school (1.3%) or student commitment to school and belief in school rules (1.8%). After considering all these factors, there is still a great deal of unexplained variance across schools (44.7%).

Practical Suggestions. Schools with high suspension rates should carefully consider why so many students are being suspended (including some students who are suspended multiple times). Schools with comparable student demographics are not suspending at similar rates. Much of the variance among schools cannot be explained by the student demographics we measured. There is a body of educational research suggesting that school suspension is not an effective way to improve student behavior and often leads to declining behavioral and academic outcomes for students. This suggests that schools with high suspension rates may be engaging in a counterproductive practice.

Study Overview. The Virginia High School Safety Study was designed to identify effective policies and practices in Virginia public high schools. Safety conditions were measured using school discipline records and surveys of approximately 7,400 9th grade students in 294 schools. This is a correlational study that can support, but not prove, causal relationships. The VHSSS was conducted by Dewey Cornell, Anne Gregory, Xitao Fan, and Peter Sheras of the Curry School of Education in collaboration with the Virginia Department of Education and Virginia Center for School Safety of the Department of Criminal Justice Services. The study was funded by the U.S. Department of Justice, Office of Juvenile Justice and Delinquency Prevention. Study conclusions do not necessarily reflect policies or recommendations of these state and federal agencies. For more information, see the website for the Virginia Youth Violence Project: <http://youthviolence.edschool.virginia.edu>. 