

Healthier Students are Better Learners:

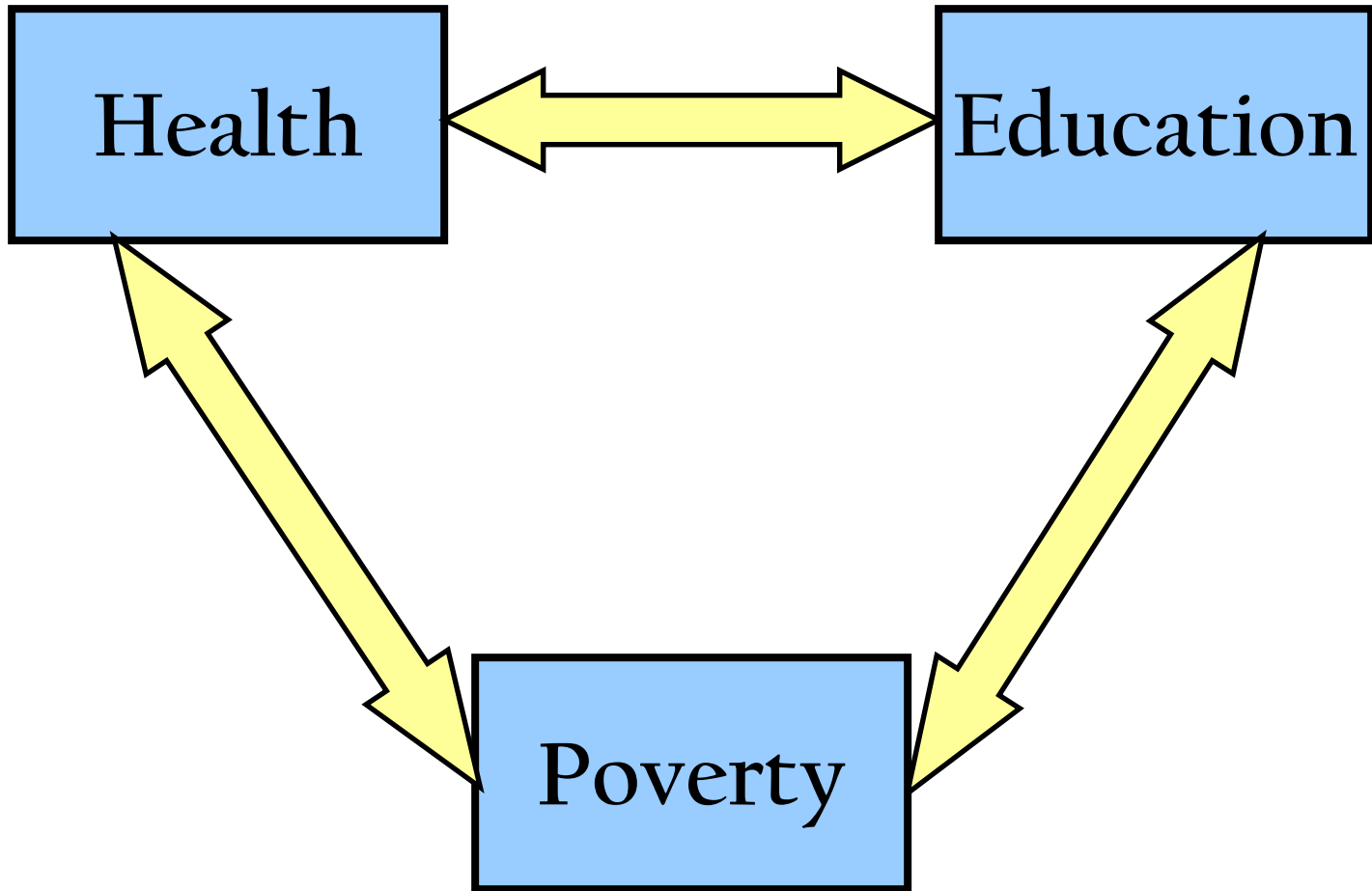
*Reducing Educationally Relevant Health Disparities is
a Missing Link in School Reforms to Close the
Achievement Gap among Urban Minority Youth*

Charles E. Basch

Strategies to Close the Educational Achievement Gap

- ▶ Standards and accountability
- ▶ Revising school financing
- ▶ Teacher preparation
- ▶ Rigorous curricula
- ▶ Charter schools
- ▶ **Reducing educationally relevant health disparities**

Reciprocal Relationships



Healthier Students are Better Learners

Focus is on ...

- **Urban minority youth from low-income families**
- **School-age youth**
- **Health problems that can be feasibly and effectively addressed by schools**

Healthier Students are Better Learners

1: Health Factors that Affect Educational Outcomes

- Prevalence and Disparities
- Causal Pathways
- What Schools Can Do

2: Effective and Efficient School Health Programs

- How Schools Can Influence the Health of Youth
- How We Need to Help

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Criteria for Selecting Strategic Priorities

- Extent of health disparities
- Causal effects on educational outcomes
- Feasibility of school-based programs and policies

7 Priority, Educationally Relevant Health Factors

- 1) Vision
- 2) Asthma
- 3) Teen pregnancy
- 4) Aggression and violence
- 5) Physical activity
- 6) Breakfast
- 7) ADHD

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1: Health Factors that Affect Educational Outcomes

- **Prevalence and Disparities**
- Causal Pathways
- What Schools Can Do

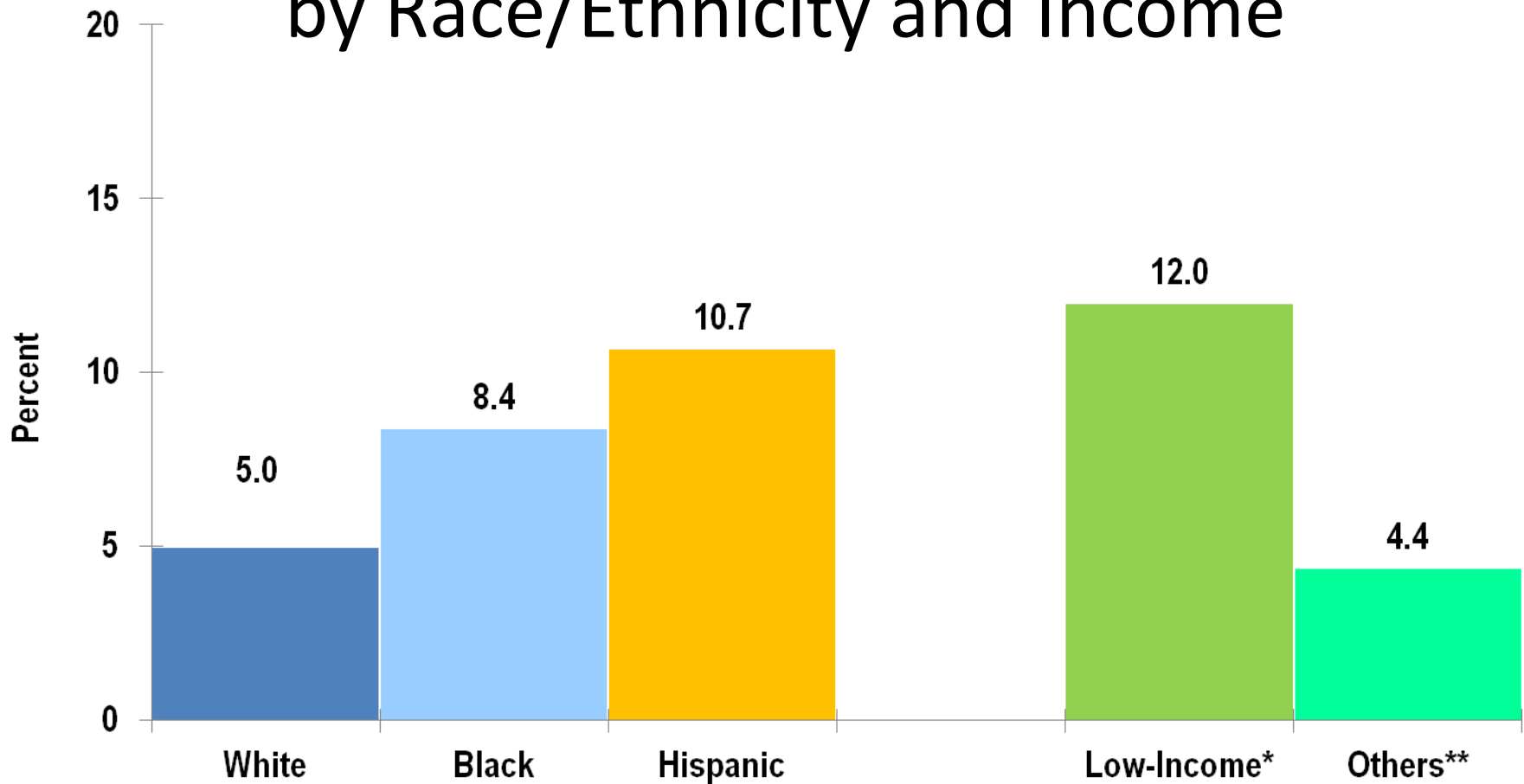
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High Prevalence

- Visual problems: ~20% of youth
- Asthma: ~14% of youth <18
- Teen pregnancy: 1 in 3 teens
- Violence: 28% of adolescents bullied at school
- Physical activity: ~2 in 3 don't get enough
- Breakfast: ~20% of youth skip it
- Hyperactivity: ~8% of youth 6–17 diagnosed

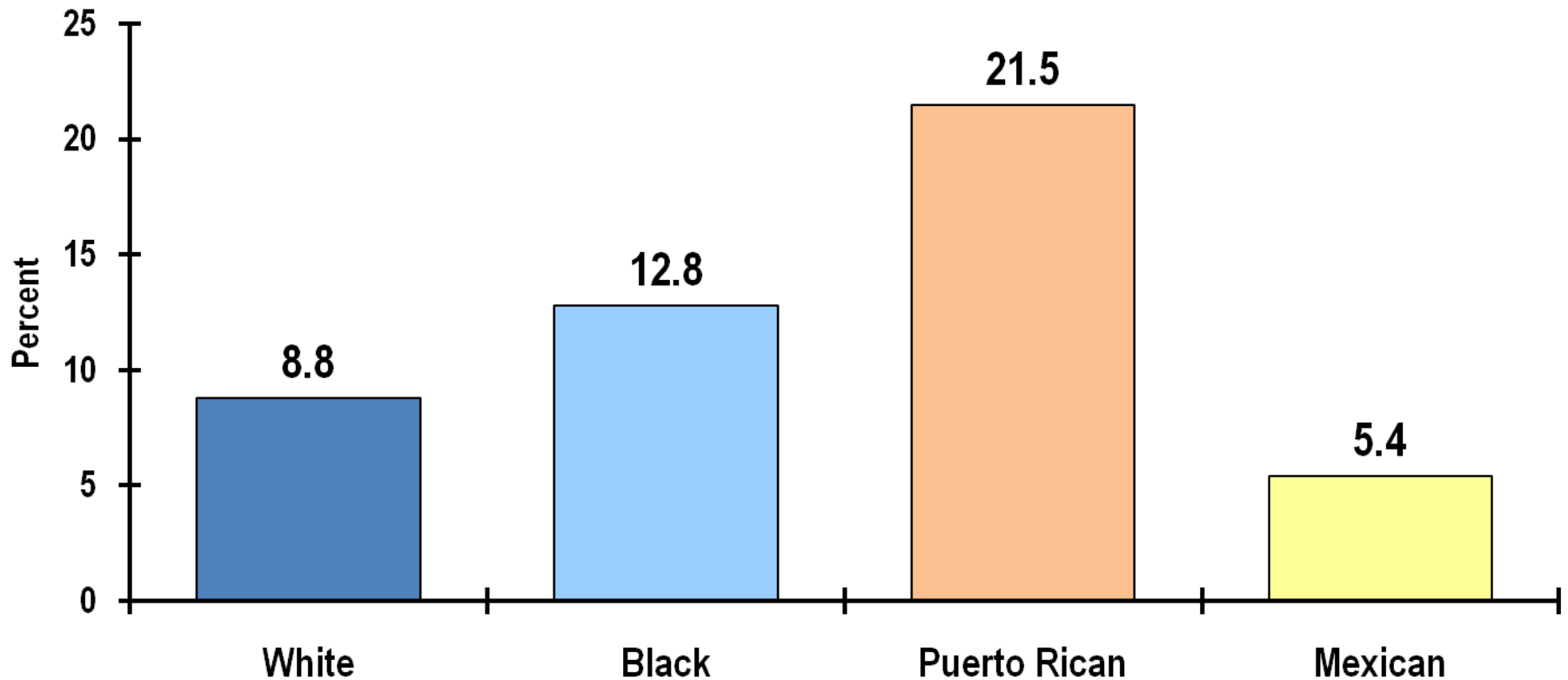
Rates of Visual Impairment in US Among Persons Age 12 and Above, by Race/Ethnicity and Income



*Income below poverty level; **Income $\geq 2X$ poverty level

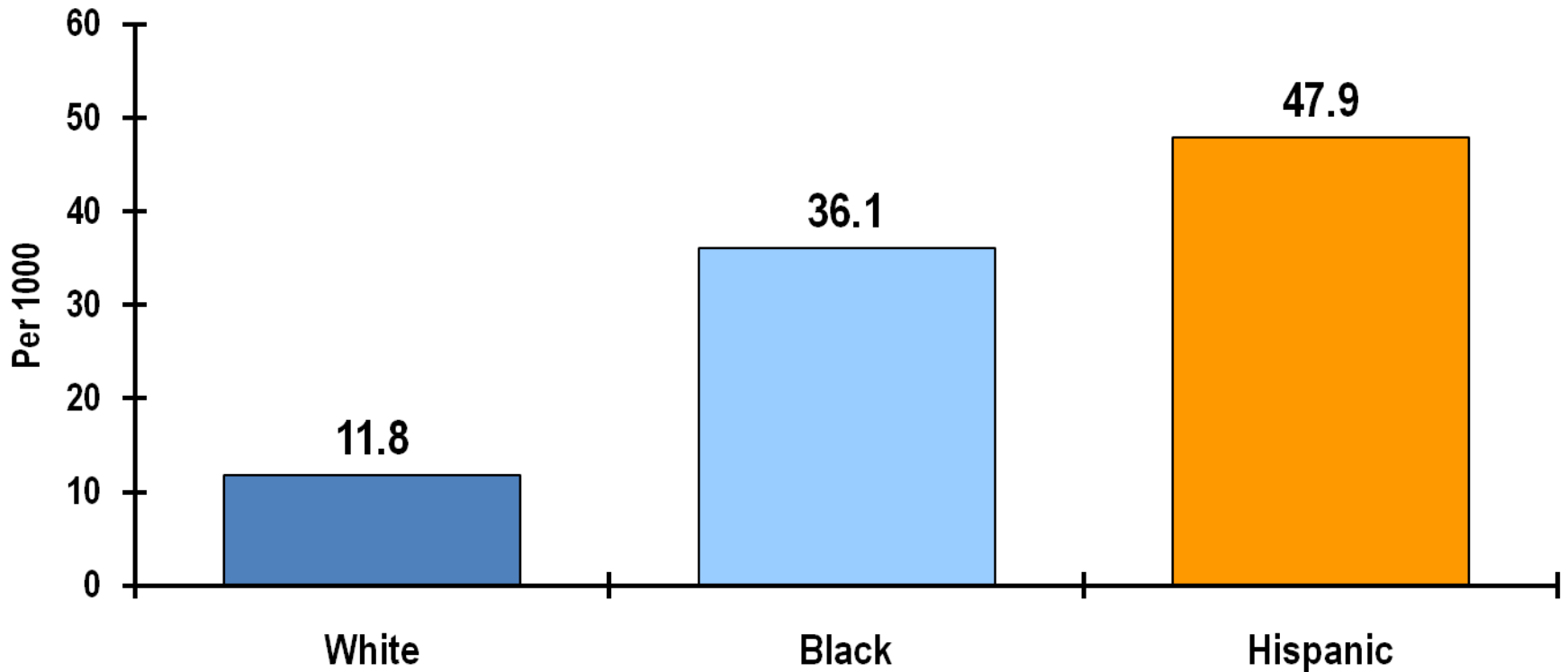
Source: NHANES 1999-2002

Asthma Prevalence for Youth in US, Ages 5-14, by Race/Ethnicity

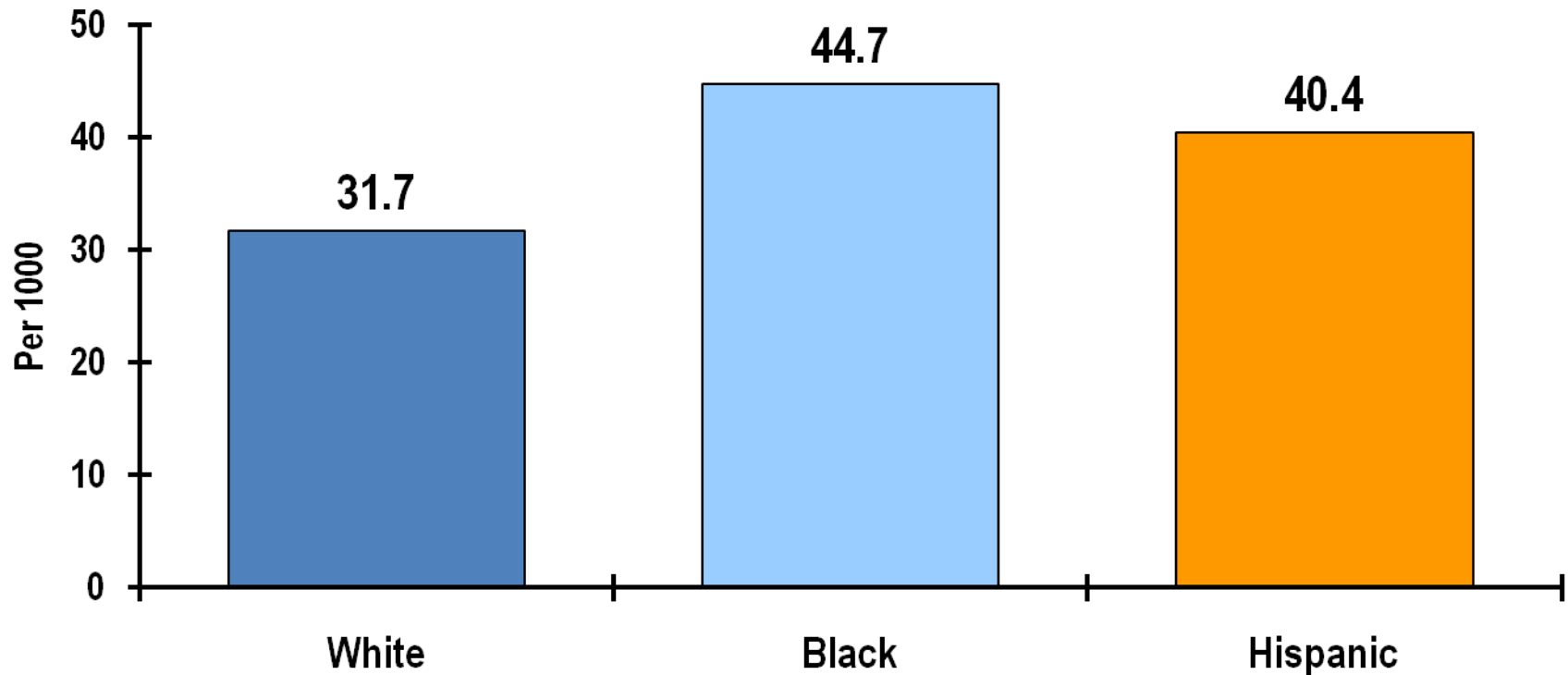


Source: National Center for Health Statistics, 2001-2003 data

Birth Rates Per 1,000 Among 15-17 Year Olds in US, by Race/Ethnicity



Percentage of High School Students in US Who Were in a Physical Fight*, by Race/Ethnicity**

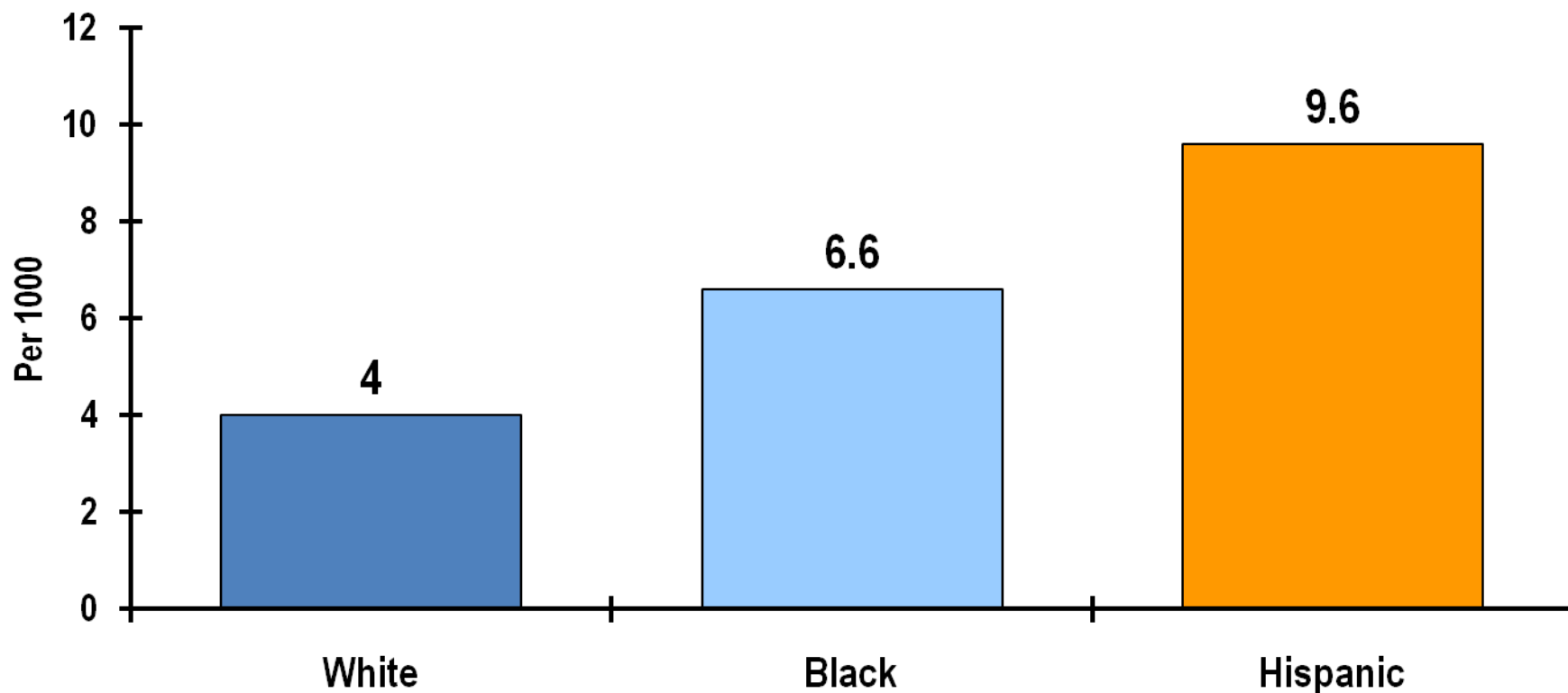


*One or more times during the 12 months before the survey.

** B > H > W

Source: CDC, National Youth Risk Behavior Survey, 2007

Percentage of High School Students in US Who Did Not Go to School Because They Felt Unsafe at School or On Their Way To or From School*, by Race/Ethnicity**

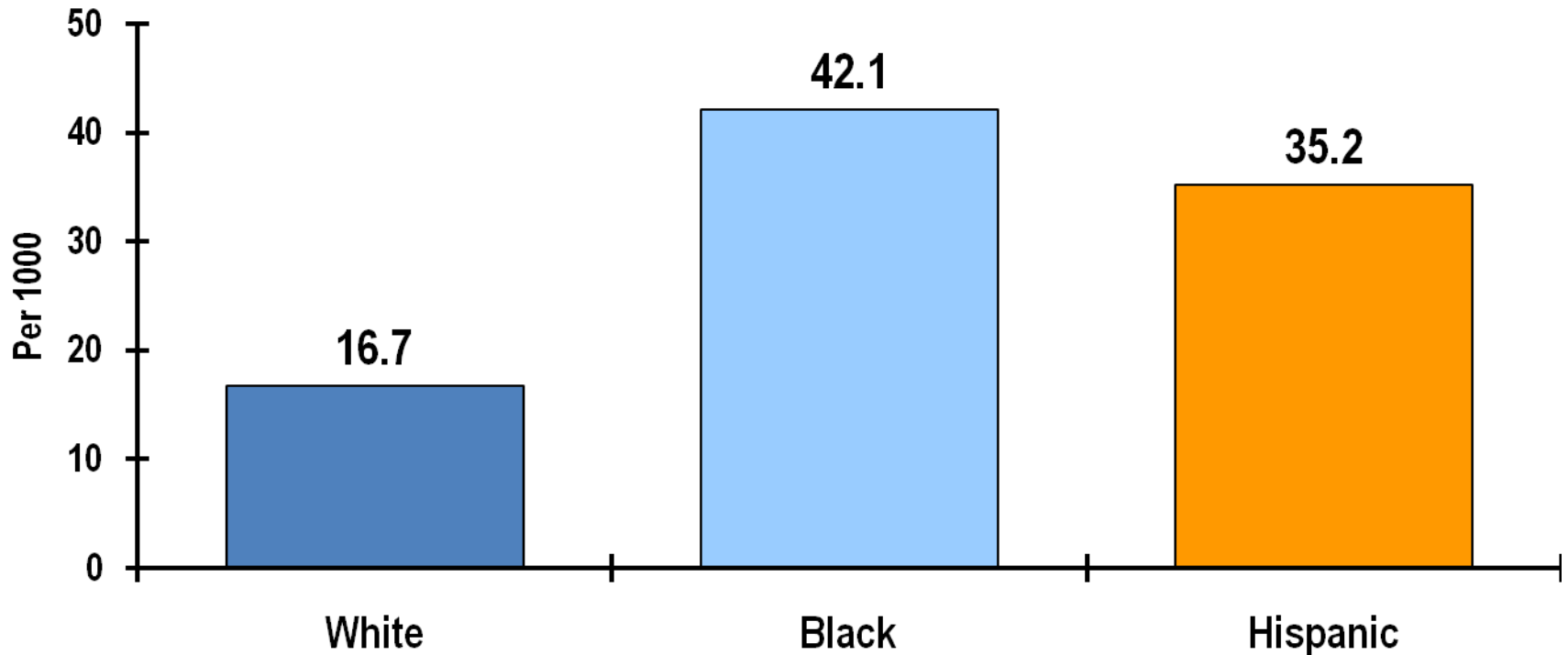


* On at least 1 day during the 30 days before the survey.

** H > B > W

Source: CDC, National Youth Risk Behavior Survey, 2007

Percentage of Female High School Students in US Who Did Not Participate in Physical Activity*, by Race/Ethnicity**

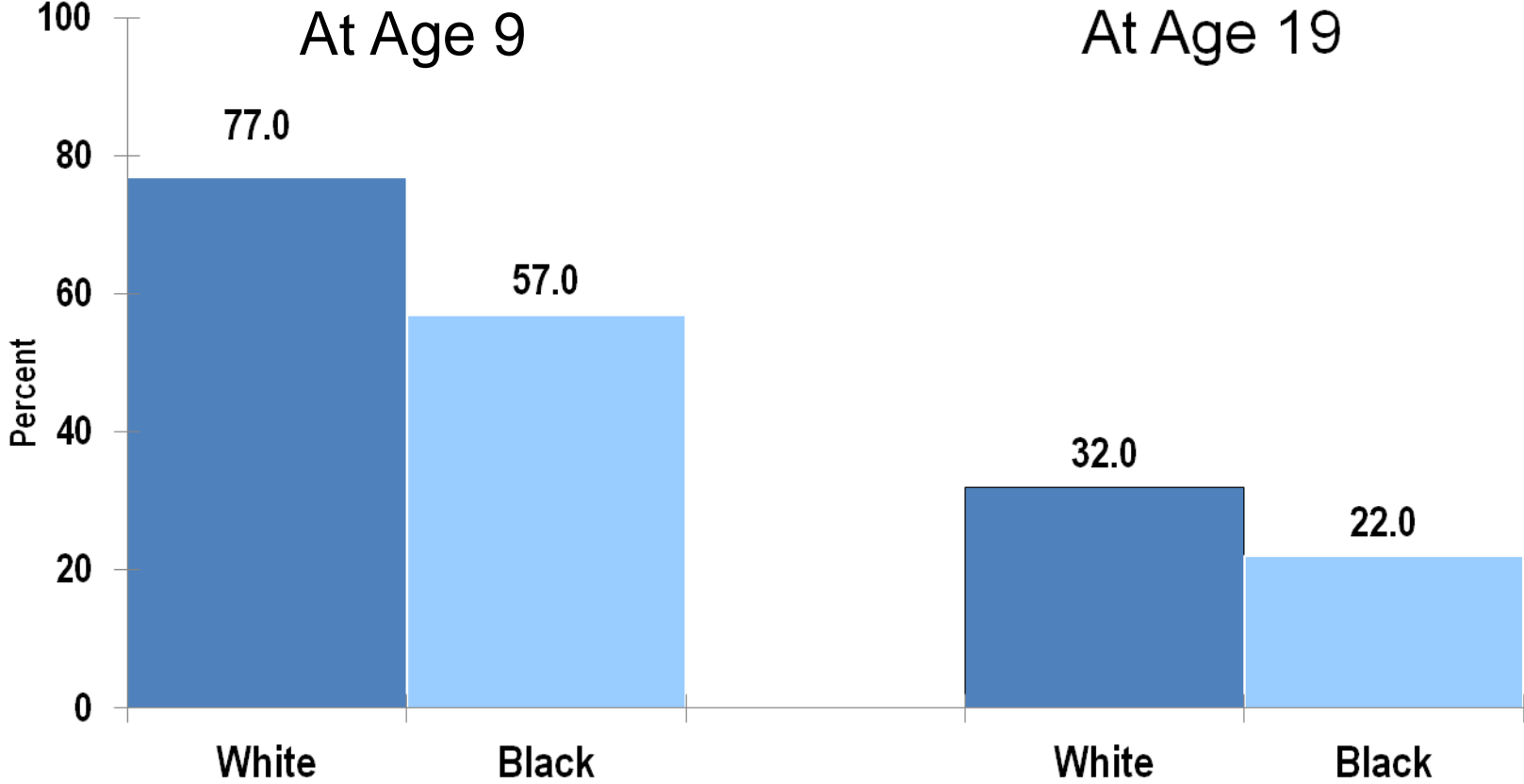


* Did not participate in 60 or more minutes of any kind of physical activity that increased their heart rate and made them breathe hard some of the time on at least 1 day during the 7 days before the survey.

** B > H > W

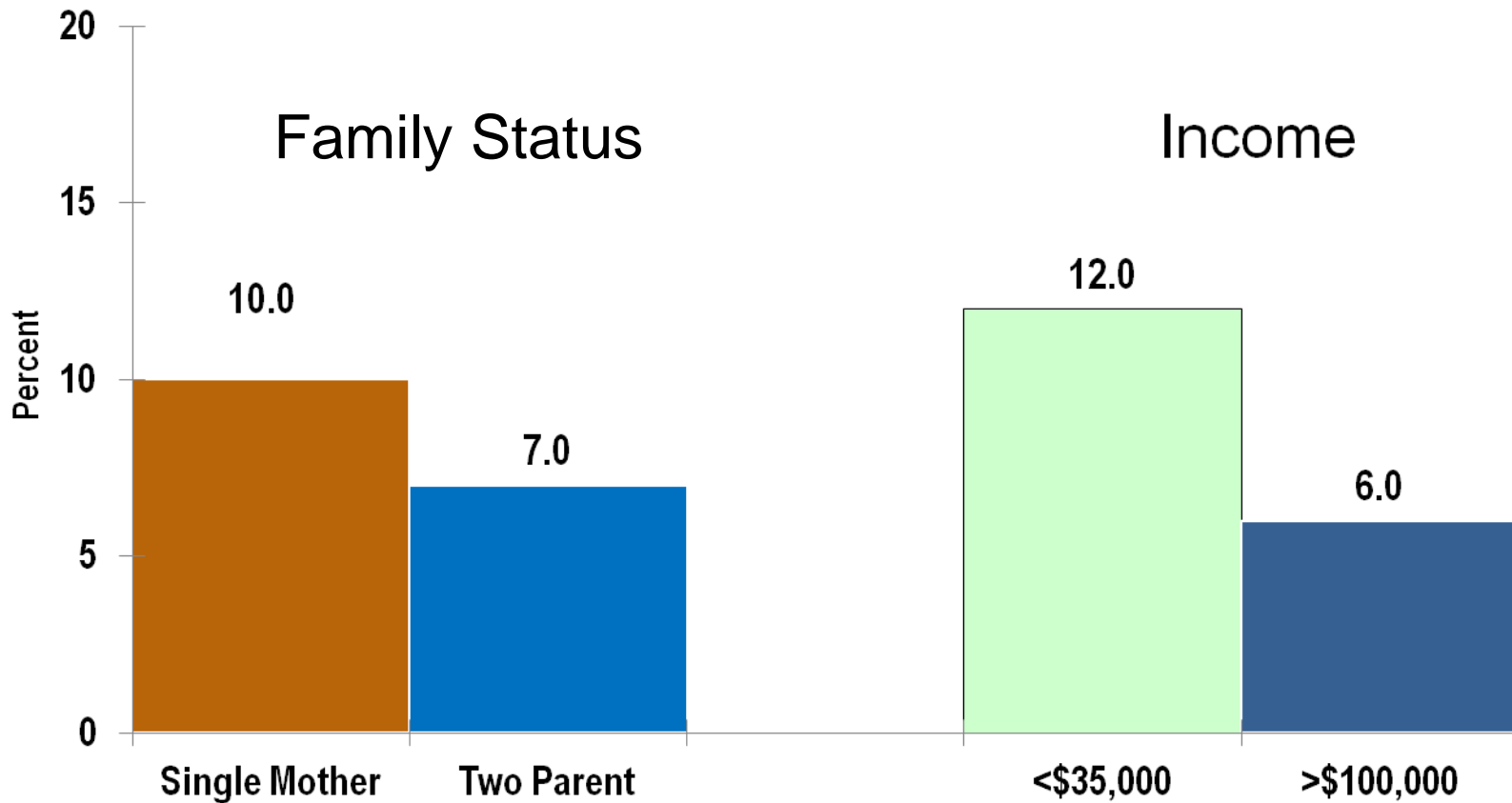
Source: CDC, National Youth Risk Behavior Survey, 2007

Percentage of White and Black Girls Who Consumed Breakfast on All 3 Days Assessed



Source: NHLBI, Longitudinal Growth and Health Survey; n = 1166 white and 1213 black girls

Prevalence of ADHD Among 3-17 Year Olds in US, by Family Status and Income



Source: National Health Interview Survey, 2008

Healthier Students are Better Learners

1: Health Factors that Affect Educational Outcomes

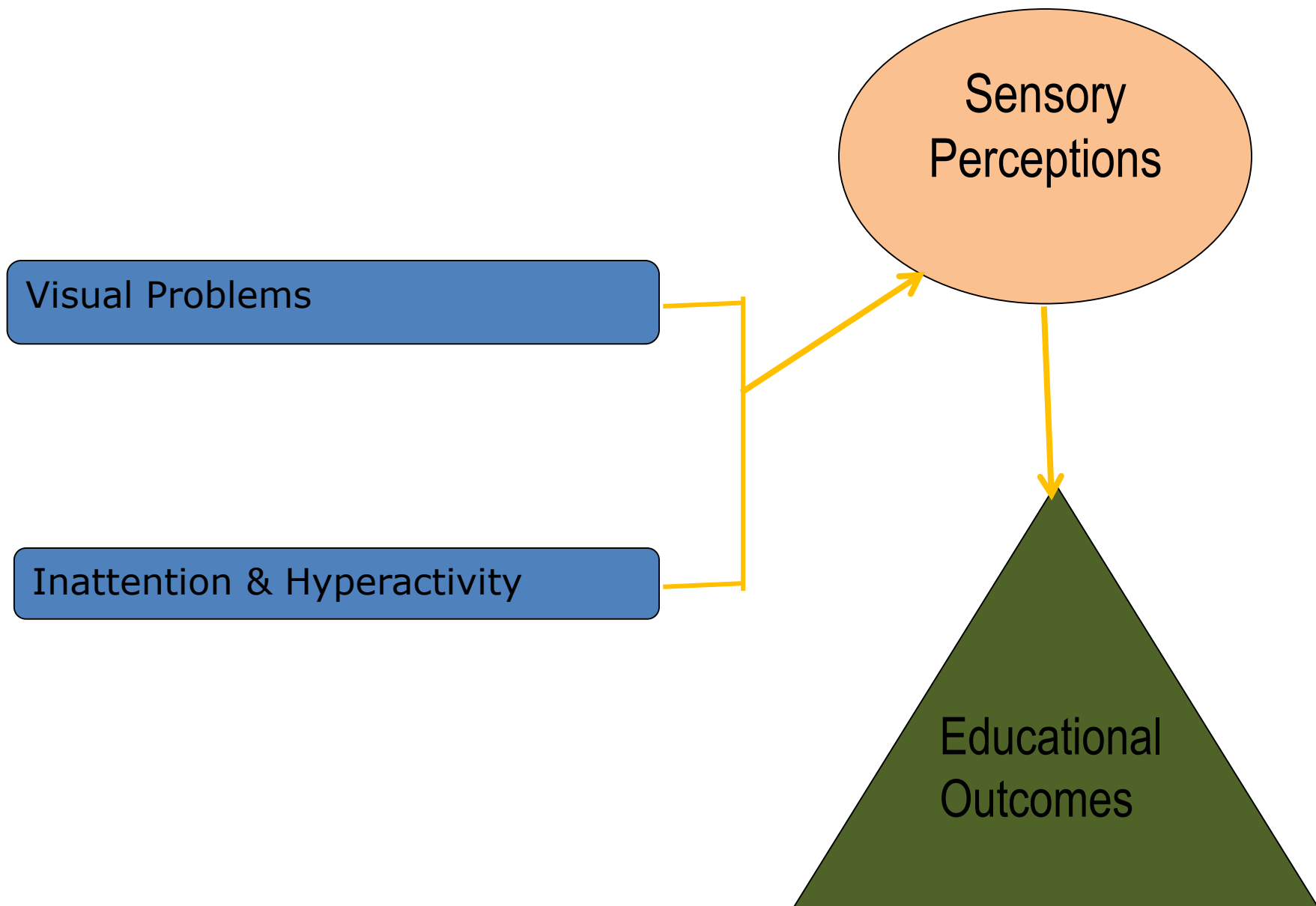
- Prevalence and Disparities
- **Causal Pathways**
- What Schools Can Do

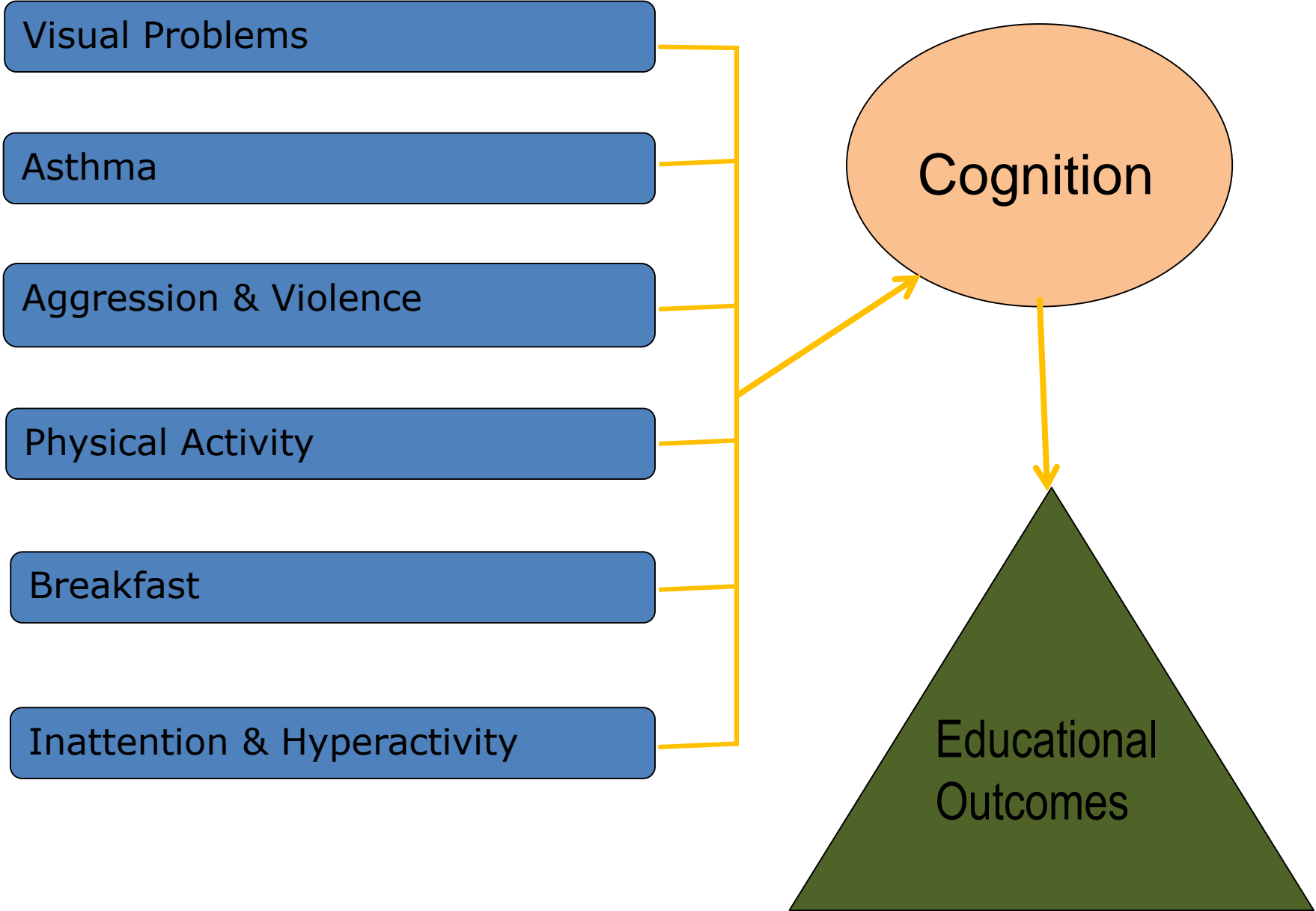
2: Effective and Efficient School Health Programs

- How Schools Can Influence the Health of Youth
- How We Need to Help

Causal Pathways

- 1) sensory perceptions
- 2) cognition
- 3) school connectedness and engagement
- 4) absenteeism
- 5) temporary or permanent dropping out





Visual Problems

Asthma

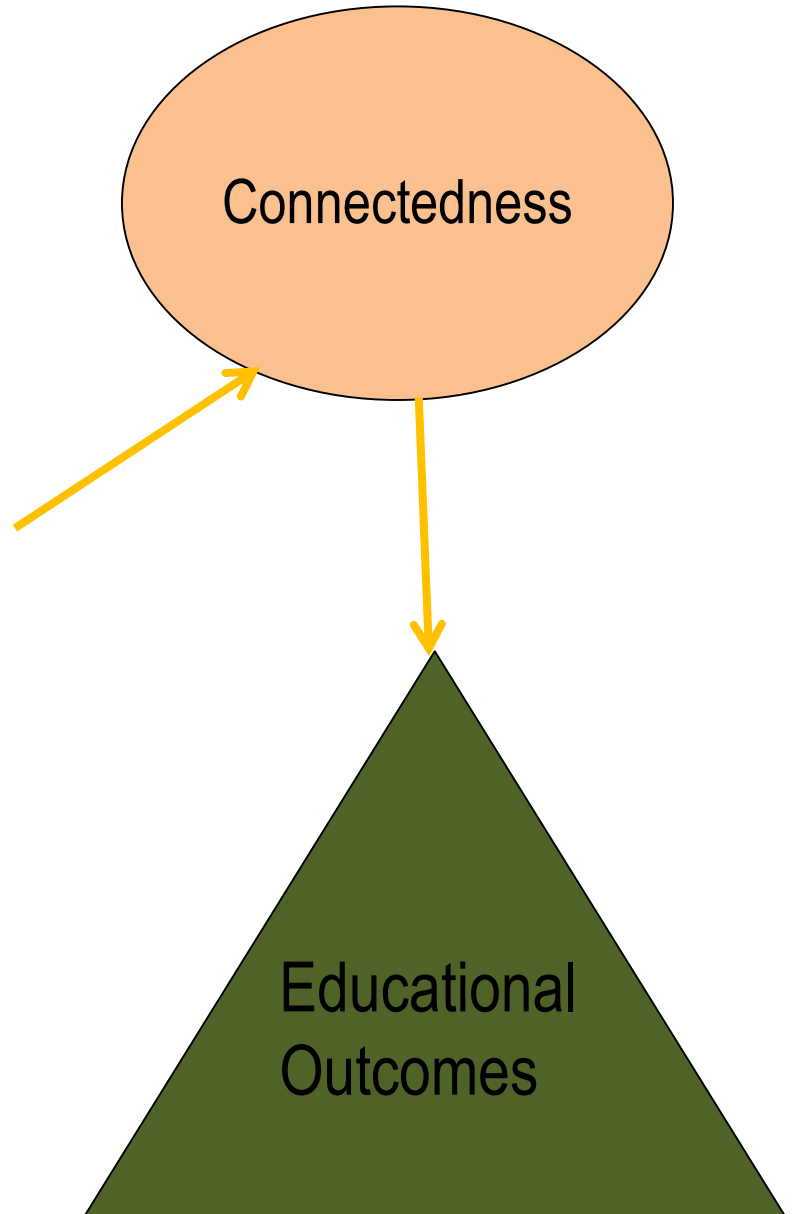
Aggression & Violence

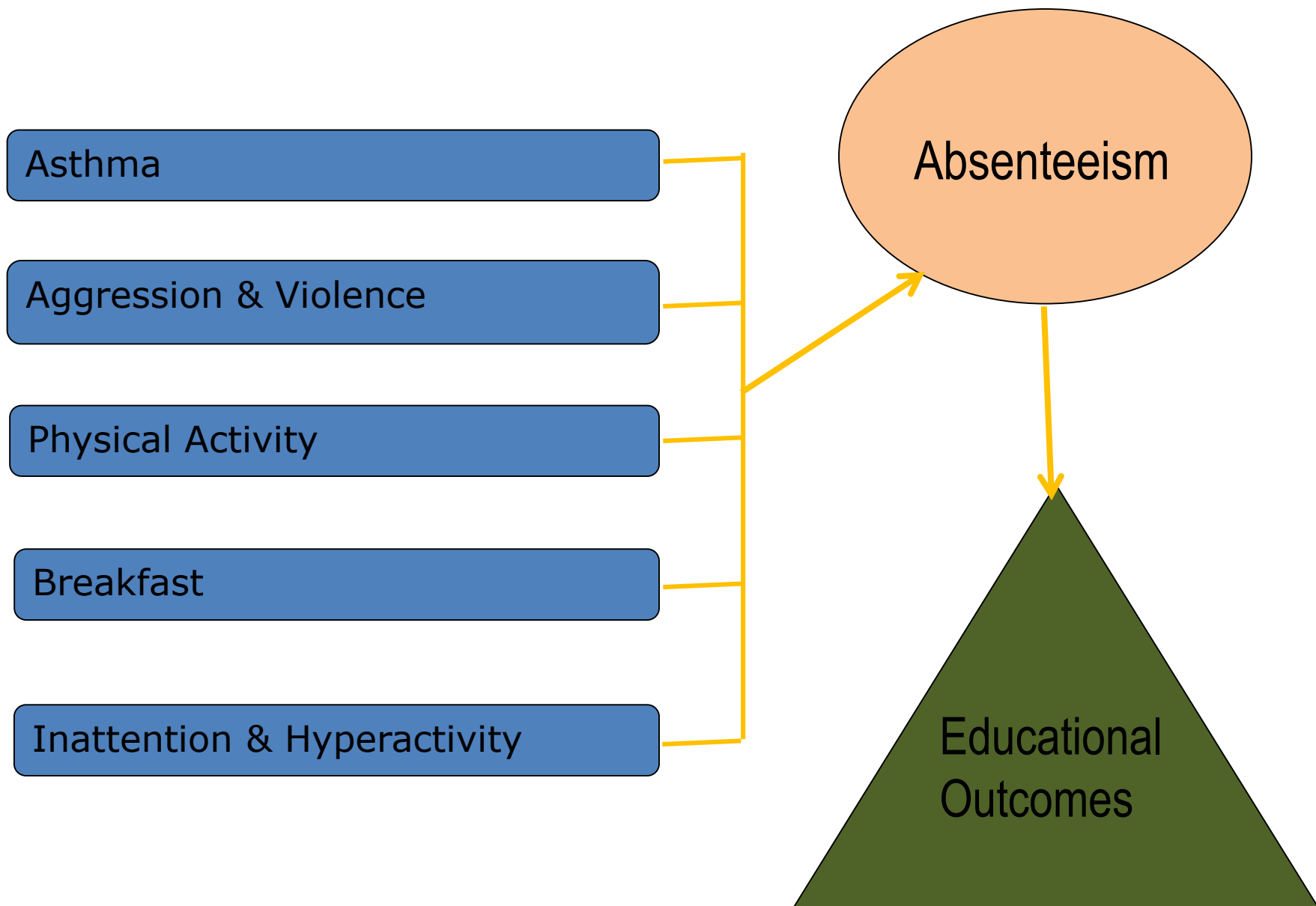
Physical Activity

Inattention & Hyperactivity

Connectedness

Educational
Outcomes





Asthma

Aggression & Violence

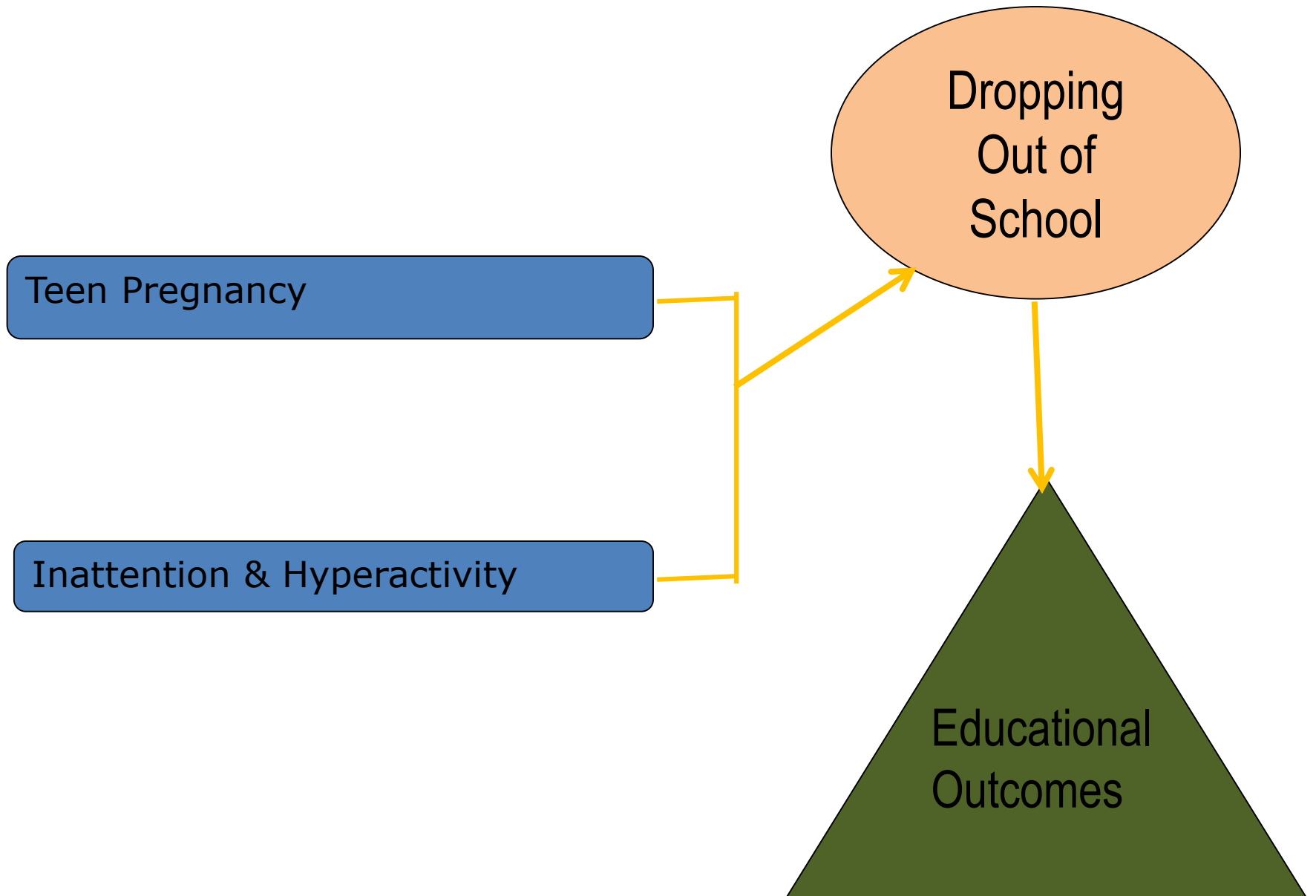
Physical Activity

Breakfast

Inattention & Hyperactivity

Absenteeism

Educational
Outcomes



Teen Pregnancy

Inattention & Hyperactivity

Dropping
Out of
School

Educational
Outcomes

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- **What Schools Can Do**

2: Effective and Efficient School Health Programs

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What Can Schools Do?

- Visual Problems:
 - Vision screening
 - Outreach to parents and teachers
 - On-site provision of services
- Asthma
 - Case management
 - Elimination of environmental triggers
 - Education for students with asthma
 - Safe opportunities for physical activity

What Can Schools Do?

- Teen Pregnancy:
 - Effective, skills-based sex education
 - Social and emotional learning
 - Contraceptive services for sexually active youth
 - Health and social services for teen moms

What Can Schools Do?

- Aggression and Violence:
 - Supportive social climate
 - Safe physical environment
 - Effective, skills-based health education
 - Social and emotional learning
 - Counseling, psychological, and social services

What Can Schools Do?

- Physical Activity:
 - Standards-based physical education
 - Recess and in-class movement
 - Intramural and after-school programs
 - Support for walking and biking to school
- Breakfast
 - Universal school breakfast program
 - Allowing students to eat in classroom

What Can Schools Do?

- Inattention and Hyperactivity
 - Assessment, evaluation, diagnosing, and monitoring
 - Organize classrooms to minimize distractions
 - Improving teacher–student relationship
 - Behavioral interventions
 - Academic interventions
 - Outreach and partnership with parents

CONCLUSIONS

An Academic Imperative



If...



Synergistic Effects

- ▶ Reducing multiple impediments to motivation and ability to learn (e.g., breakfast, physical activity, sleep) would be not only additive but also *synergistic*
- ▶ School health programs must focus on *multiple* educationally relevant health disparities

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Recognition in Education Reform Proposals

<p>Each student enters school healthy and learns about and practices a healthy lifestyle.</p>		<p>Each student learns in an intellectually challenging environment that is physically and emotionally safe for students and adults.</p>
	<p>THE NEW COMPACT</p>	<p>Each student is actively engaged in learning and is connected to the school and broader community.</p>
<p>Each student has access to personalized learning and to qualified, caring adults.</p>	<p>Each graduate is prepared for success in college or further study and for employment in a global environment.</p>	

A Broader, **BOLDER** Approach to Education



Healthy Kids Make
Better Students.
Better Students Make
Healthy Communities

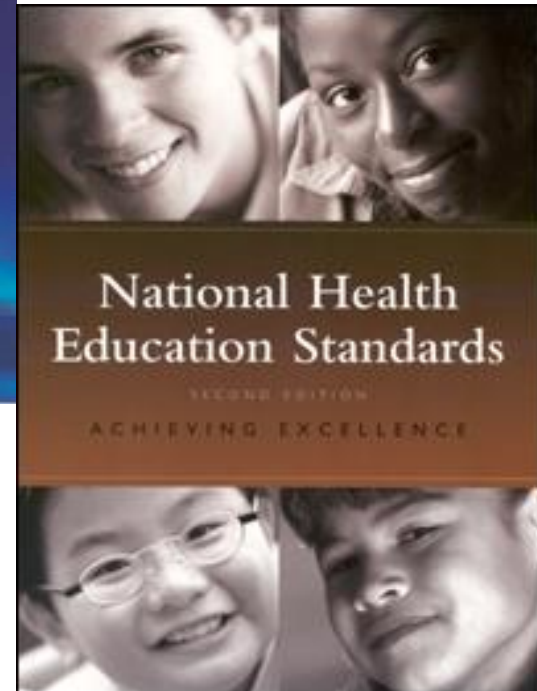
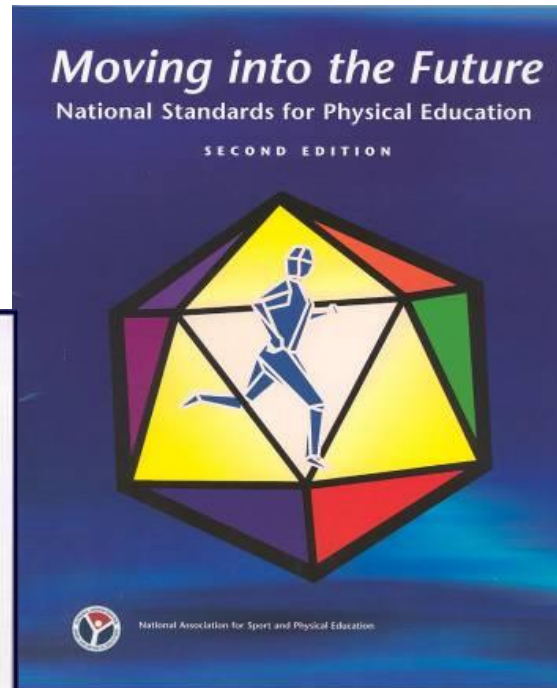
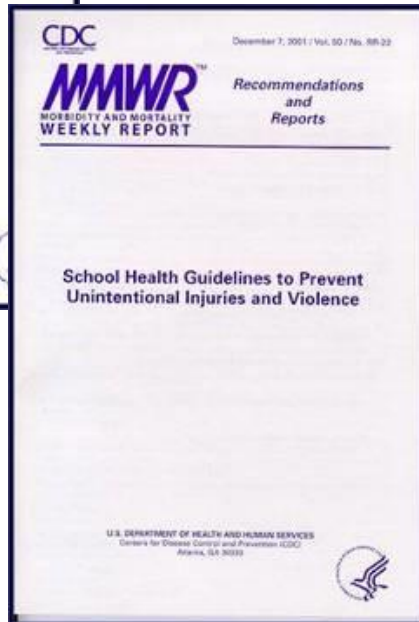
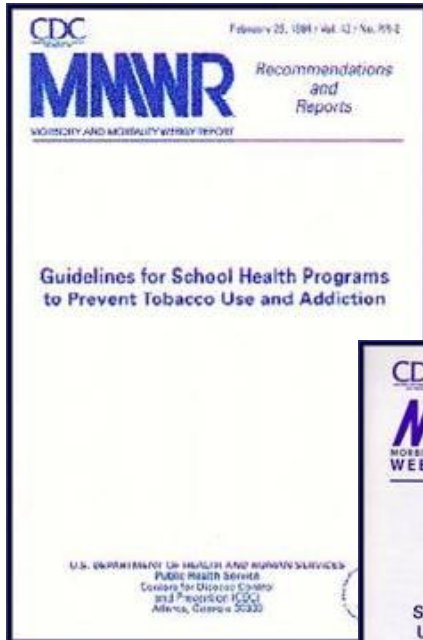
Limited Returns on Investments of Social Resources

- Insufficient financial investments
- Efforts are not *strategically planned*
- Poor quality programs
- Efforts are not *effectively coordinated*

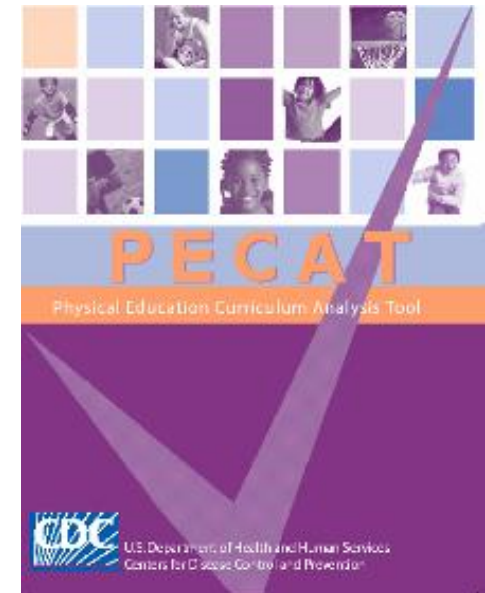
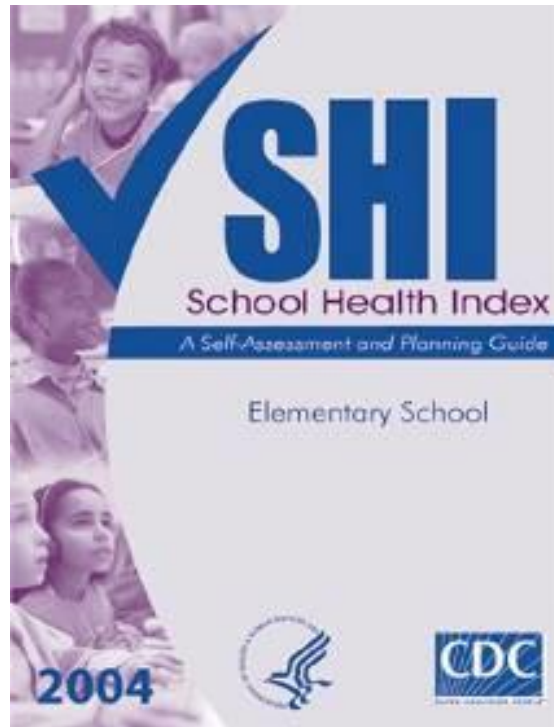
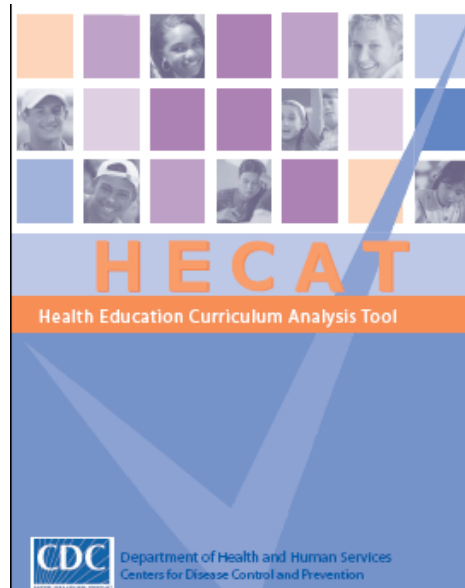
Strategically Planned

- Maximize yield from investments
- School-specific priorities
- Ongoing process
- Community involvement

High Quality, Evidence-Based



High Quality, Evidence-Based



High Quality, Evidence-Based



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Using NREPP 

Find Interventions 

NREPP News 

Welcome to the National Registry of Evidence-based Programs and Practices (NREPP), a service of the Substance Abuse and Mental Health Services Administration (SAMHSA).

NREPP is a searchable database of interventions for the prevention and treatment of mental and substance use disorders. SAMHSA has developed this resource to help people, agencies, and organizations implement programs and practices in their communities.



A program of the U.S.
Department of Health and
Human Services Substance
Abuse & Mental Health
Services Administration

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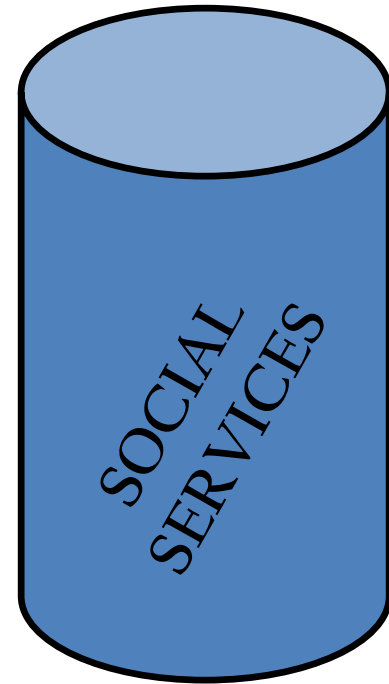
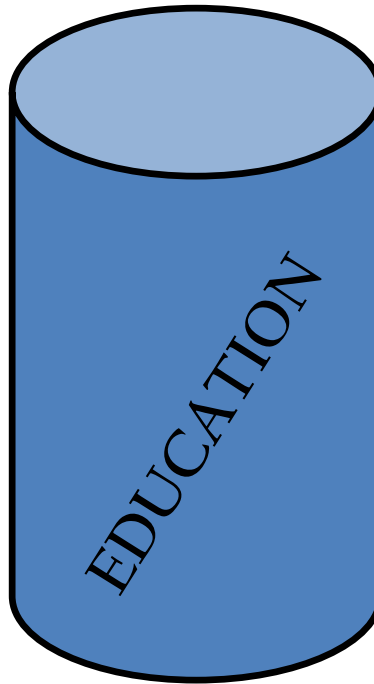
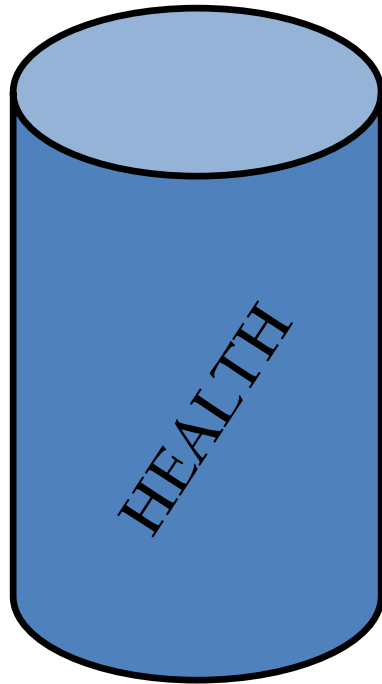
Links to SAMHSA Center Home Pages - [CSAP](#) | [CSAT](#) | [CMHS](#)

This site was last updated on 02/18/2010

Effectively Coordinated

- School health coordinator
- School health council
- Community involvement and support
- Program integration
- Coordinated services for individual students

Our Children Are Ill Served by the Silo Approach



A Coordinated School Health Program



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Strategies for Supporting School Efforts to Address Educationally Relevant Health Disparities

- Communication
- Policy mandates and accountability
- Financial support
- Guidance, technical assistance, and professional development
- Data collection and research

Leadership from US Department of Education

- Integrate strategies to reduce educationally relevant health disparities into 4 key ED priorities:
 - Distribution of highly effective teachers
 - Focusing on lowest performing schools
 - Improving data systems
 - Assessment and standards

Leadership from US Department of Education

- A national school health strategic plan
- Incentives for involvement
- Human capital grant programs
- Integrate school climate and connectedness into data collection systems
- Integrate health into the ED research agenda

Policy Development

- Integrate health-related measures into accountability systems for school improvement efforts
- Include health goals in mandated school improvement plans
- Establish school health councils or leadership teams
- Ensure sufficient curricular time is devoted to health education
- Support professional development of staff
- Adopt specific policies to address each of the educationally relevant health problems

Guidance, Technical Assistance, and Professional Development

- Intensive efforts to disseminate up-to-date, evidence-based guidance to teachers, administrators, and policy makers
- Provide ongoing follow-up consultation and support
- Support school health learning communities
- Train school health coordinators for urban schools serving minority populations

Data Collection and Research

- Develop and implement a national research agenda to put what we already know into practice and demonstrate its value for improving educational outcomes
- Conduct research on:
 - motivations and skills of school leaders and teachers
 - the kinds of evidence valued by legislators
- Include educational outcomes as key measures in evaluations of health interventions for young people
- Document the extent and nature of current investments in support of school health programs

Role for Colleges of Education

- Integrate health topics and evidence-based school health strategies into professional preparation programs for teachers and administrators
- Form school—university partnerships to facilitate implementation of school health programs and policies
- Lead efforts to develop and implement a national research and development agenda on the impact of high quality, strategically planned, and effectively implemented school health programs

