Confronting Injury and Violence Globally: A Tale of Two Traumas

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National Center for Injury Prevention and Control
Centers for Disease Control and Prevention
Injury/Violence Spectrums

Cause of Trauma:
- Road Traffic Injury
- Sexual Violence Against Children

Kinetic Energy
- Official Data
- Self-report

Prevention:
- Modify the Physical Environment
- Modify the Social Environment and Behavior
About the Commission:

• An independent High Level Commission under the Chairmanship of the former NATO Secretary General Lord Robertson with a member from each of the G8 countries and all major world regions;

• Supported by an expert advisory group including representatives from the WHO, World Bank, OECD, UNECE and NGOs;

• Funded by the FIA Foundation a UK registered charity established to promote road safety, the environment and sustainable mobility
A Decade of Action… Saving 5 Million Lives

1. Political Commitment
2. Global Action Plan ($300 million)
3. 10% Road Building Funds on Safety
Together for girls
We can end sexual violence
Health Impact
Global Burden of Road Traffic Injuries

1.2 million deaths each year
9th leading cause of death
2.1% of all deaths
20-50 million injuries
Costs of Global Road Traffic Injuries

Every year, road traffic crashes cost an estimated:

- US$518 billion
- US$65 billion in low-income and middle-income countries
- 1% to 2% of GNP in low-income and middle-income countries
- 2% of GNP in high-income countries

Road traffic injuries put significant strain on health care budgets.
Change in Traffic Fatalities per 100,000

Year

Percent Change

High-income countries

Asia

Latin America

Africa

Middle East
<table>
<thead>
<tr>
<th>LEADING CAUSE</th>
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<tbody>
<tr>
<td>1    Ischaemic heart disease</td>
<td>12.2</td>
</tr>
<tr>
<td>2    Cerebrovascular disease</td>
<td>9.7</td>
</tr>
<tr>
<td>3    Lower resp. infectious</td>
<td>7.0</td>
</tr>
<tr>
<td>4    Chronic obstr. pulmonary disease</td>
<td>5.1</td>
</tr>
<tr>
<td>5    Diarrhoeal diseases</td>
<td>3.6</td>
</tr>
<tr>
<td>6    HIV/AIDS</td>
<td>3.5</td>
</tr>
<tr>
<td>7    Tuberculosis</td>
<td>2.5</td>
</tr>
<tr>
<td>8    Trachea, bronchus, lung cancers</td>
<td>2.3</td>
</tr>
<tr>
<td>9    Road traffic injuries</td>
<td>2.2</td>
</tr>
<tr>
<td>10   Prematurity &amp; low birth weight</td>
<td>2.0</td>
</tr>
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<td>2.2</td>
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Source: WHO, 2009
Global Burden of Sexual Violence Against Children

In 2002 150 million girls and 73 million boys had experienced sexual violence with physical contact

Source: Andrews et al., Child Sexual Abuse, WHO, 2004
## Lifetime Prevalence of Child Sexual Abuse in High Mortality, Developing Regions of the World

<table>
<thead>
<tr>
<th>Region</th>
<th>Female %</th>
<th>Male %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa (High Mortality)</td>
<td>21.3</td>
<td>9.6</td>
</tr>
<tr>
<td>Africa (Very High Mortality)</td>
<td>42.7</td>
<td>29.8</td>
</tr>
<tr>
<td>Latin America/Caribbean</td>
<td>13.3</td>
<td>20.0</td>
</tr>
<tr>
<td>Eastern Mediterranean</td>
<td>28.0</td>
<td>11.5</td>
</tr>
<tr>
<td>Southeast Asia</td>
<td>67.7</td>
<td>35.0</td>
</tr>
</tbody>
</table>

Source: Andrews et al., Child Sexual Abuse, WHO, 2004
Sexual Violence Against Children

Social, emotional, & cognitive impairment

Adoption of health-risk behaviors

Disease, disability, and social problems

Early death

The influence of sexual violence against children throughout life
Health Impacts of Sexual Violence Against Children

**Health-risk Behaviors**
- Sexual promiscuity
- Sexual perpetration
- Alcohol abuse
- Illicit/injected drug use
- Smoking

**Mental health and well-being**
- Depression, post-traumatic stress disorder (PTSD)
- Aggression/Violence Perpetration
- Anxiety
- Somatic complaints
- Attempted suicide
- Social ostracism
- Anxiety
- Academic achievement
- Revictimization
- Unwanted pregnancy

**Disease and Injury**
- STDs, including HIV
- Gynecological problems
- Heart disease
- Diabetes
- Stroke
- Cancer
- Suicide
- Hepatitis
Toxic Stress Damages Brain Architecture

- Excessive and repeated stress causes the release of chemicals that impair cell growth and interfere with the formation of healthy neural circuits in the brain.

- Toxic stress can damage the brain’s stress response system and contribute to premature aging of the body.
Sexual Violence Against Children

Perpetrators

Compromised Negotiation

HIV Risk Behaviors

HIV Infection

Direct Transmission

Culture

Social Environment
### Fraction of Mental Disorders and Suicidal Behavior Attributable to Child Sexual Abuse (CSA) by Sex

<table>
<thead>
<tr>
<th>Disorder</th>
<th>Female %</th>
<th>Male %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depression</td>
<td>7-8%</td>
<td>4-5%</td>
</tr>
<tr>
<td>Alcohol Use/Dependence</td>
<td>7-8%</td>
<td>4-5%</td>
</tr>
<tr>
<td>Drug Use/Dependence</td>
<td>7-8%</td>
<td>4-5%</td>
</tr>
<tr>
<td>Panic Disorder</td>
<td>13%</td>
<td>7%</td>
</tr>
<tr>
<td>PTSD</td>
<td>33%</td>
<td>21%</td>
</tr>
<tr>
<td>Suicide Attempts</td>
<td>11%</td>
<td>6%</td>
</tr>
</tbody>
</table>

Source: Andrews et al., Child Sexual Abuse, WHO, 2004
Surveillance
Road Traffic Data Sources

Health/Medical
- Vital statistics (deaths)
- Hospitalizations
- Emergency dept visits

Other
- Surveys--ask people
- Observations

Traffic Safety/Police
- Police accident reports
- Citations or tickets
- Licensing information
- Amount of travel
- Amount of travel by mode
In 2007, the Ministry of Health established a National Road Traffic National Injury Surveillance System.
Non-fatal road traffic injuries by road user type and state of sentinel unit, Peru
Aggregated data from 23 states, 2007-2008

Note: Pedestrian: person injured while was walking; Four wheel vehicle occupant: injured driver and/or passenger of the vehicle; Motorcyclist: injured driver and/or passenger of the motorcycle or motor-car; Pedal cyclist: person injured while riding a bicycle; Other: person injured as occupant of animal-drawn vehicle, animal cart, train, water transport, etc.
Sexual Violence Against Children

Data Sources

Health/Medical
- Hospitalizations
- Emergency dept visits
- Reproductive health clinic data
- STD treatment data

Police/Social Service
- Police reports
- Child welfare service records
- School reports

Other
- Surveys--ask people
Help Seeking and Service Utilization Among Victims of Childhood Sexual Violence, Tanzania, 2009

- Weighted Percentage of Females
  - Told Someone about Sexual Violence: 52.7%
  - Sought Services for Sexual Violence: 22.0%
  - Received Services for Sexual Violence: 11.8%

- Weighted Percentage of Males
  - Told Someone about Sexual Violence: 33.6%
  - Sought Services for Sexual Violence: 13.6%
  - Received Services for Sexual Violence: 3.5%
Survey Method

- Household survey
- Three-stage cluster sample survey design
- Randomly select one eligible respondent aged 13-24 years in each household
Protecting Child Respondents

- Conduct interviews in private with predefined procedure for handling interruptions and use same-sex interviewers
- One interview per household
- Provide a list of services to every respondent
- Have service agencies contact respondents who are upset or express a desire to get help
Sexual Violence Prior to age 18 Among Females 13-24 Years of Age, Swaziland 2007

- Any Sexual Violence: 33.2%
- Forced Intercourse: 4.9%
- Coerced Intercourse: 9.0%
- Attempted Unwanted Intercourse: 18.8%
- Unwanted Touching of Respondent: 13.9%
- Forced Touching of Perpetrator: 1.3%

95% Confidence Interval
Prevention
Road Traffic Injury Intervention Package

- Speed
- Impaired driving
- Seatbelts
- Helmets
- Roadway design
Contributing Factors
Global Status Report – 2009

- 29% have urban speed limits below 30 mph
- Less than half of countries have a BAC law at 0.05 g/dL or below
- 43% lack primary seat belt laws that cover the driver and all passengers
- 60% of countries lack a universal motorcycle helmet law
Success Story - Vietnam

- 3% helmet use prior to the law
- 99% use after law (2007)
- Saved 1,000 lives to date, injuries down 25%
- Child helmet coverage began in 2009
Roundabouts Save Lives
Roundabouts are one of the new “vaccines for road safety”

- 80-90% reduction of fatal injuries compared to traditional intersections in Sweden
- As effective as our best vaccines
- Generally well accepted by citizens
Motivate and Sustain Political Will
Promote Equitable Gender Relations and Protective Norms
Create Safe Environments and Families
Strengthen and Coordinate Response Systems
Establish Systems for Monitoring and Evaluation
Safe Dates – School and Community-based Dating Violence Prevention Program

Based on a RCT at 3-year follow-up:

- Reduced psychological, physical, and sexual dating violence perpetration
- Equally effective for males and females, whites and minority adolescents
- Effects were mediated by changes in dating violence and gender role norms and awareness of community services
Success Story in Progress: Swaziland

- National Awareness Campaign
- Sexual Offenses Unit for Children in Courts and Police Stations
- Sexual Offense Bill
- UNICEF’s 2008 Plan of Work
- Community outreach

**Protection for sexual offense victims in Swaziland**

By Jabulile Phakathi

MBABANE, Swaziland, 30 December 2008 – In response to concern about the alarming rates of violence against children documented in a 2007 national study conducted by UNICEF and the US Centers for Disease Control, Swaziland has established its first Sexual Offences Unit for children and young people.

Housed in the Magistrate’s Court, the unit has a child-friendly interview room, offices for five prosecutors and a resource centre for staff.
A New Lever for Public Health
For more information

Visit CDC’s National Center for Injury Prevention and Control web site:

www.cdc.gov/ncipc
The findings and conclusions of this presentation have not been formally disseminated by the Centers for Disease Control and Prevention and should not be construed to represent any agency determination or policy.