State of the Science for Hospital-based Violence Intervention: Research and Policy Implications

Kyle Fischer, MD, MPH
Adjunct Assistant Professor
Department of Emergency Medicine
University of Maryland School of Medicine
National Network of Hospital-based Violence Intervention Programs
Policy Director
Theory and Practice of HVIPs

“HVIPs combine brief in-hospital intervention with intensive, community-based case management and provide targeted services to high-risk populations to reduce risk factors for reinjury and retaliation while cultivating protective factors.”

-Purtle et al 2013
Pre-Injury

Household dysfunction
Exposure to violence
Neglect
Abuse
Substance Abuse

Post-Injury

Physical
Psychological

Injury

Recovery
Services
Retaliation
Substances
PTSD
Let’s dive into the data...
What happens if we don’t intervene?
RATES OF REPEAT VIOLENT INJURY

DATA ADAPTED FROM GREENE, 2016
What if we add HVIPs?
Retrospective Cohort Study

- 154 Youth between ages 12 and 20
- 18 month follow-up
- Matched cohort from hospital database considering age, gender, race, type of injury, year of injury

<table>
<thead>
<tr>
<th></th>
<th>Intervention (n = 75)</th>
<th>Control (n=79)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinjury</td>
<td>8%</td>
<td>9%</td>
</tr>
<tr>
<td>Death</td>
<td>4%</td>
<td>2%</td>
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</tbody>
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## Pediatric Randomized Control Trials

### Mentor-Implemented Program for Assault-Injured Youth

<table>
<thead>
<tr>
<th></th>
<th>Intervention</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n=56</td>
<td>n=57</td>
</tr>
<tr>
<td>Fight injuries in last month</td>
<td>5.7%</td>
<td>7.8%</td>
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</tbody>
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### Case Management Program for Assault-Injured Youth

<table>
<thead>
<tr>
<th></th>
<th>Intervention</th>
<th>Control</th>
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<tbody>
<tr>
<td></td>
<td>n=45</td>
<td>n=43</td>
</tr>
<tr>
<td>Fight or fight injury in 3 months?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parental report</td>
<td>0%</td>
<td>14.3%</td>
</tr>
<tr>
<td>Youth report</td>
<td>0%</td>
<td>8%</td>
</tr>
</tbody>
</table>


Adult Randomized Control Trials

Cooper 2006
- Intervention: 5.0%
- Control: 36.0%

Zun 2006 (self report)
- Intervention: 8.1%
- Control: 20.3%

Aboutanos 2011
- Intervention: 5.6%
- Control: 6.2%
Moving beyond reinjury...
The Evolving Policy Landscape: A Case for Health Service Research
Fig. 1. Percentage of total charges by payer.
The Affordable Care Act’s Medicaid expansion creates incentive for state Medicaid agencies to provide reimbursement for hospital-based violence intervention programmes

Kyle Fischer, Jonathan Purtle, Theodore Corbin

INTRODUCTION: VIOLENT INJURY IS LIKE A CHRONIC DISEASE
Mass casualty shootings push violence to the forefront of the US public’s attention. While the events at the Washington Navy Yard, Aurora, Newtown, and Oak Creek ‘infectious disease.’ Although this analogy is useful in promoting a public health approach to violence prevention, it also likens violent injury to an acute illness and shapes the design of preventive interventions that treat it as such.
Thank you!

Questions?
kfischer@som.umaryland.edu
References:


