

Eastern Association for the Surgery of Trauma

Advancing Science, Fostering Relationships, and Building Careers

32nd EAST Annual Scientific Assembly Short Course

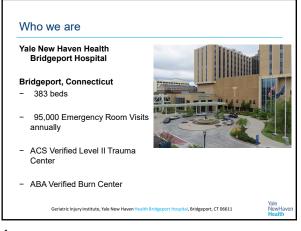
How to Strategically Design, Implement, & Expand A Hospital-Based Injury Prevention Program

> January 16, 2019 JW Marriott Austin Austin, Texas

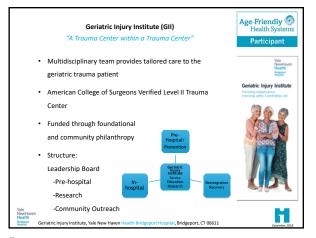


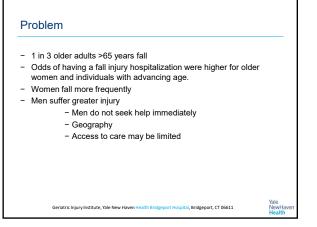
Author	Disclosure	
Ann Dyke, MN RN	Nothing to Disclose	
		Yale



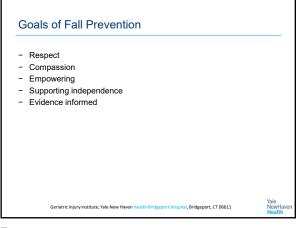




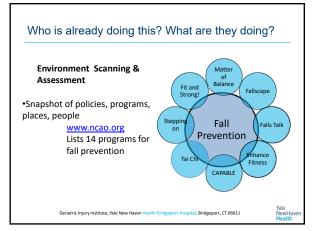


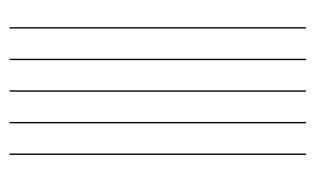


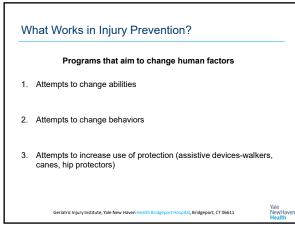




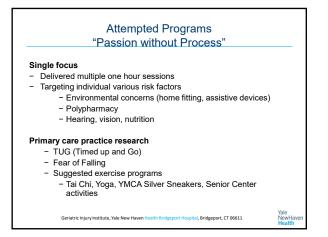




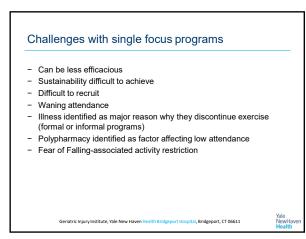




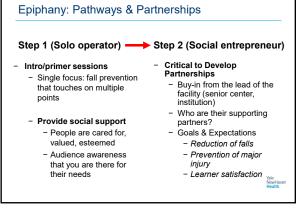




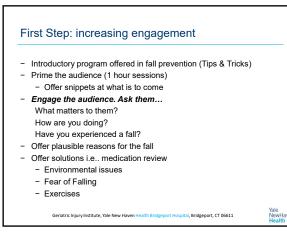


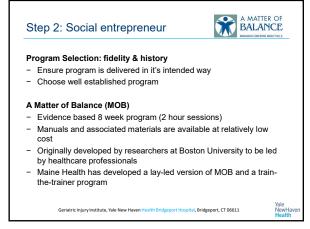












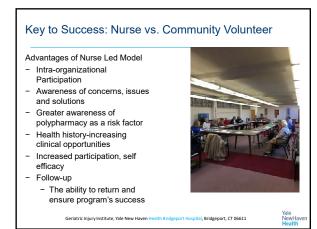
Matter of Balance: Core Values

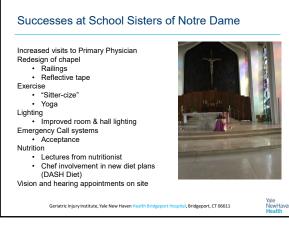
- Fear of Falling
 - Addresses concerns about falls
 - Discussion of previous falls
- CBT-Cognitive Behavioral Therapy
 - Modifies emotions, behaviors and thoughts
 - Participants are encouraged to voice their concerns and how they might overcome
 - Icy conditions-wearing protective shoes
 - Participants report increased confidence and activity following classes

Yale NewHa

- Integrated exercise is a component

Geriatric Injury Institute, Yale New Haven Health Bridgeport Hospital, Bridgeport, CT 06611







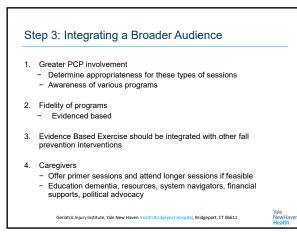


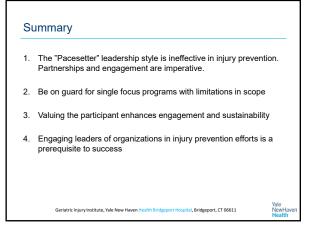
- Awareness of self
 Movement & Mindfulness
 - Paying greater attention to their daily feelings of wellness/illness
- Decreased anxiety
- Self advocacy

- Increased confidence when speaking with primary care providers

Geriatric Injury Institute, Yale New Haven Health Bridgeport Hospital, Bridgeport, CT 06611

Yale NewHaw











Disclosures Disclosure has been rated Disclosure has been rated Disclosure has been rated Disclosure has been rated Some Material May Be Inappropriate for Children Under 13 Some Materi





- Champion of the underdog
- Loyal friend



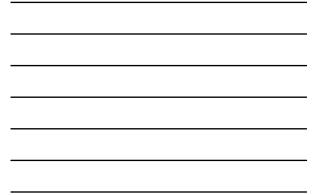


















- Unintentional Injury and Violence
- Physical inactivity
- **Alcohol and Drugs**
- Sexual behaviors
- Unhealthy dietary behaviors











14



• Food for thought



Vomiting sobers you up quicker b/c you get rid of undigested alcohol.







Date rape drugs have a salty flavor.

These drugs often have no color, smell, or taste, so you can't tell if you are being drugged.

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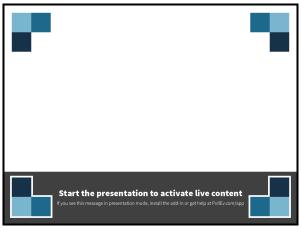














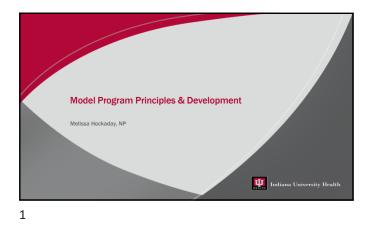




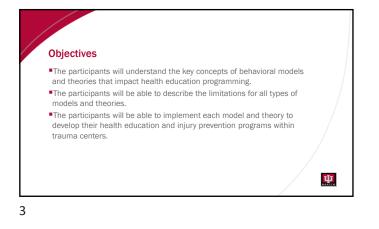






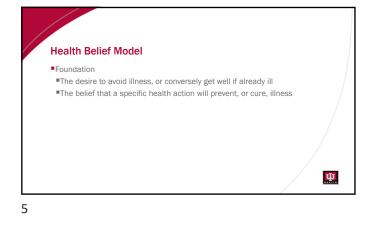




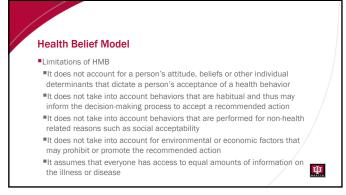


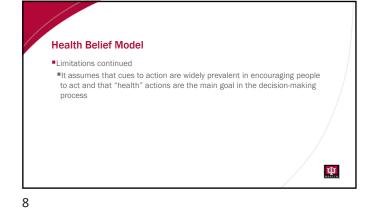
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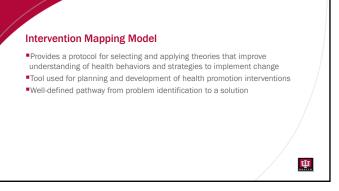


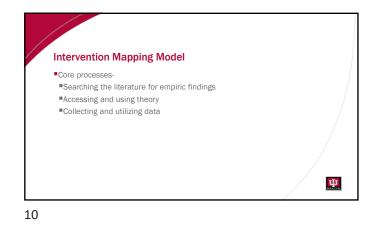


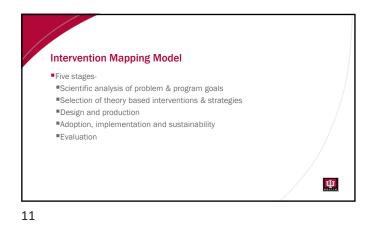


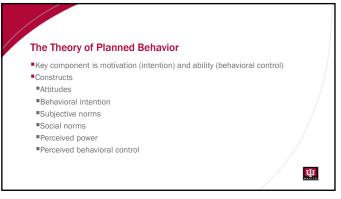


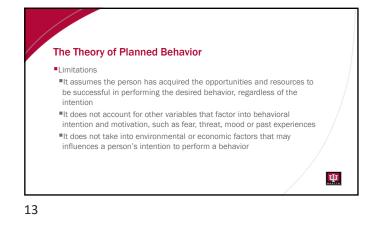




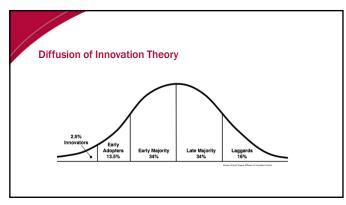




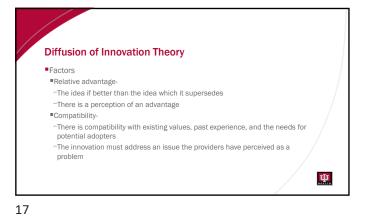


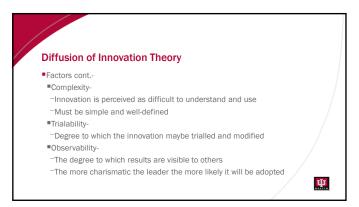




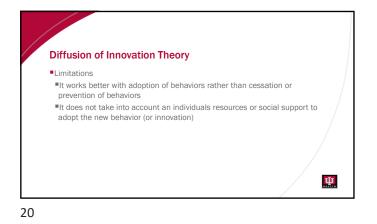


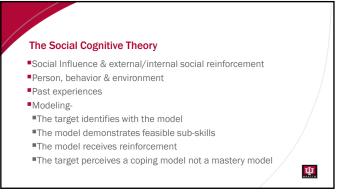


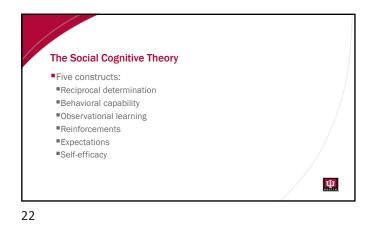


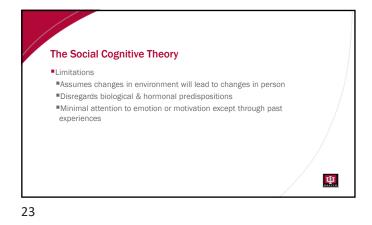


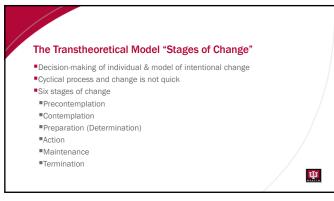






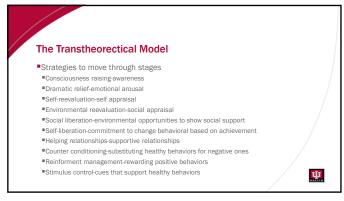


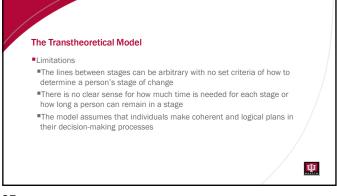








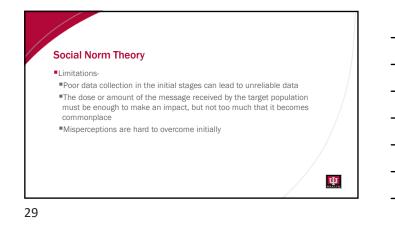






- correct misperceptions of norms
- Social norm media campaigns-community wide electronics and print media

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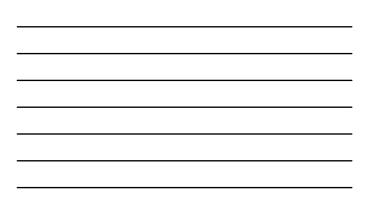


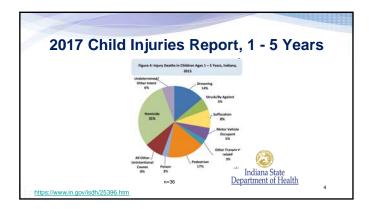




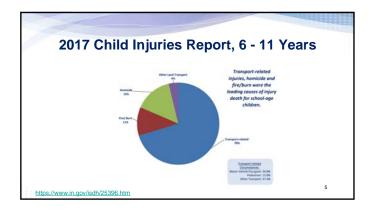


















Injury Prevention Program Tour Winter 2015 - 16

- Travel to trauma centers (verified and provisional) to learn about their injury prevention programs
- Share division priority areas:
- Child passenger safety
- Older adult falls

Email questions to: indianatrauma@isdh.in.gov

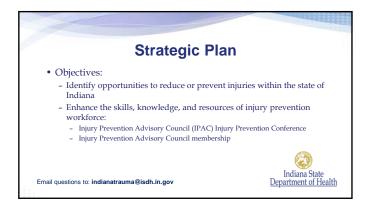


Injury Prevention at Trauma Centers

- · Over 60 specific programs/injury prevention areas targeted
- Leading mechanisms of injury:
 - Older adult falls
 - Motor vehicle collisions
 - Varied (penetrating trauma, all-terrain vehicle (ATV) injury, pedestrian/bike related, and traumatic brain injury (TBI))
- Common themes:
 - Falls prevention (STEADI, Stepping On, Matter of Balance, etc.)
 - Motor vehicle safety (car seat clinics, AARP Safe Driving, ATV Safety, no texting and driving, etc.)
 - Other (Stop the Bleed, SBIRT, bike helmet giveaway, safe sleep, safety showers, etc.)

*As of: December 2018

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Strategic Plan

- Objectives:
 - Establish a sustainable and relevant infrastructure that provides leadership, funding, data, policy, and evaluation for injury prevention
 - Provide access and technical assistance for best practice and evidence-based injury prevention strategies:
 - Preventing Injury in Indiana: A Resource Guide
 Injury Prevention Resource Guide Application



Email questions to: indianatrauma@isdh.in.gov





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Strategic Plan

- 3. Statewide direction and focus for older adult (age 65+) falls prevention
- 4. Statewide direction and focus for child injuries:
- Safe sleep
- Child passenger safety

Email questions to: indianatrauma@isdh.in.gov

Bullying





Additions to State Plan

- Items suggested at the last IPAC meeting:
- Cross cutting prevention
- Inclusion of intentional and unintentional injuries
- Expansion of tertiary prevention tools:
 - Stop the BleedHarm reduction
- Focused effort aimed at childhood abuse and neglect
- Improvement in TBI prevention and post-acute care

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CHILD PASSENGER SAFETY PROGRAMS



Indiana State Department of Health

The Magnitude of the Problem in Indiana

• Unintended motor vehicle traffic deaths claimed 20 lives ages 14 and under (2016).



Email questions to: indianatrauma@isdh.in.gov



What Can Be Done?

- Car seat use reduces the risk of infant death (1 year and younger) by 71% and toddler death (1 4 years) by 54%.
- Booster seats reduce the risk of serious injury by 45% for children ages 4 9 when compared to seat belt use alone.

Email questions to: indianatrauma@isdh.in.gov



Indiana Child Passenger Safety Programs

• Booster Bash program

Email questions to: indianatrauma@isdh.in.gov

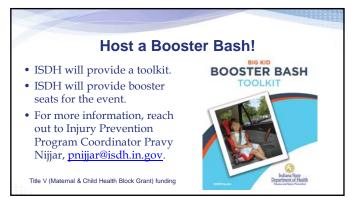
- Permanent fitting stations
- Child passenger safety technician scholarship program



Booster Bash

- Data:
 - 915 booster seats were handed out to communities and parents in 2017.
 - 525 seats were handed out during the first half of 2018.
 - Demographical data is collected via the Automotive Safety Program Check-up Form during each appointment.
 - Data on child passenger/booster seats usage is being gathered and calculated.

Email questions to: indianatrauma@isdh.in.gov



Booster Bash Event Specifics

• Hosting an event:

Email questions to: indianatrauma@isdh.in.gov

1. Identify schools and community partners to host. Look for organizations that serve children ages 4 – 8.

2. Contact the director or principal to discuss components of the Booster Bash. Include information about logistics and the responsibilities of all parties involved.



Booster Bash Event Specifics

3. Set the event time and date. Identify a safe location for parents to park; it should not be easily accessible by the community (UNLESS it is a community-wide event).

4. Check about liability insurance and what the host organization/your agency recommends.

5. If you want event pictures, ask if a photo consent policy or form is already available onsite (or from your agency).

Booster Bash Event Specifics

6. Recruit child passenger safety technicians (CPSTs)! Volunteers who aren't CPSTs are still handy and much needed.

• If there aren't many CPSTs in your area, you can still have an event. Just restrict it to a certain grade, age, or classroom in the school.

• Better yet, utilize ISDH's CPST Scholarship Reimbursement Program.

Booster Bash Event Specifics

- 7. What if there are children who are too small to be in a booster seat?
 - Will you refer them to a nearby inspection station?
 - Will you bring other child safety seats for younger/smaller children?
 - Will you schedule them for another post-clinic individual appointment?
- 8. Develop a flyer with information and resources for the family (sample flyer is included). Tell them who, what, where, when, and why.

Booster Bash Event Specifics

- 9. Gather supplies:
- Current recall list and LATCH manual
- Booster seats (other seats if needed or wanted)
- Chalk to mark lanes (if needed)
- Marketing signs
- Scale/measuring tape
- Pens and pencils
- Clipboards for check-up forms
- Foam pool noodles or towels
- Antibacterial gel, sanitation wipes, latex gloves
- Flyers/educational brochures
- Plan to destroy recalled or
- expired seats

Booster Bash Event Specifics

- 10. Send an email to all volunteers, partners, and CPSTs with logistics and details about the event.
- 11. Announce your event or ask the director/principal to send home flyers for the event ahead of time.
- 12. Remember your mission, and be persistent!

Booster Bash Event Specifics

What works well:

- Plenty of volunteer staff
- Large parking area
- Plenty of foot traffic
- Extra supplies
- Having other child safety seats
- Making individual appointments in the future
- Seeing community and trauma centers collaborate!

Booster Bash Event Specifics

Learning experiences and tips:

- Have more technicians in the future
- Have translators/bilingual technicians
- Have enough seats on hand
- Hand out paperwork on clipboards while people are in their cars waiting
- Coordinate traffic flow better







Become a Fitting Station!

How to become a fitting station:

- The Indiana Criminal Justice Institute (ICJI) manages a network of child safety seat inspection stations.
- Must be staffed by at least one CPST; they're available 10 hours per month and document inspections on forms.
- Must provide replacement seats if necessary and report monthly activities to ICJI as well as provide a yearly expense report.

Title V (Maternal & Child Health Block Grant) funding

Email questions to: indianatrauma@isdh.in.gov

Fitting Station Data There are 126 fitting stations in 62 counties, as of 2018. From October 2017 to May 2018: There have been 5,224 free or reduced car seats given out as well as 9,343 free child passenger safety inspections.



Child Passenger Safety Technician Reimbursement Program

• CPST reimbursement program:

- ISDH can reimburse future technicians \$250.
- Scholarship covers:
 - \bullet \$85 for class
- Travel costs, lodging, etc.
- Goal is to increase the number of active technicians in trauma centers and community organizations throughout the state.

Title V (Maternal & Child Health Block Grant) funding

Child Passenger Safety Technician Scholarship Program

- The CPST scholarship program is funded through the Maternal Child and Health Services (TITLV) grant.
- Recipients can be reimbursed up to \$250 for taking the 3to 4-day training to become certified CPSTs sponsored through Safe Kids Worldwide.
- Up to five people per organization can be reimbursed.

Email questions to: indianatrauma@isdh.in.gov



Child Passenger Safety Technician Scholarship Program

• Data:

- Data is being collected and evaluated from post-evaluation surveys.
- 53 technicians utilized the program in 2018.





Websites to Visit for Helpful Information

- Order free brochures on child passenger safety: http://www.preventinjury.org/Brochures
- More information on child passenger safety: https://www.safekids.org/child-passenger-safety
- Find a technician: <u>http://www.preventinjury.org/Child-Passenger-Safety/Child-Safety-Seat-</u> Inspection-Stations/List-of-Child-Safety-Seat-Inspection-Stations
- Check for a recall: <u>https://www.safercar.gov/parents/CarSeats/Car-Seat Registration.htm?</u> <u>view=full</u>

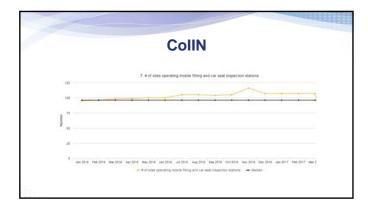


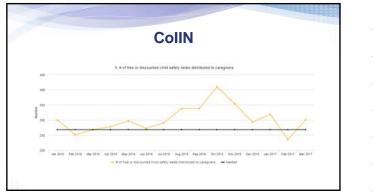




CollN

- Attended in-person learning summit in Waltham, MA, in May
- Continued tracking:
 Rate of child passenger fatalities
 Rate of child passenger fatalities
 Rate of child passenger hospitalizations
 Number of sites operating mobile fitting and car seat inspection stations
 Number and percentage of sites operating car seat inspection stations in high-risk
 communities Number of free or discounted child safety seats distributed to caregivers
 Number of car seat technicians currently certified
 Number of universal safety seat inspection forms completed and submitted by technicians
 Number of free child safety seat inspection events conducted statewide







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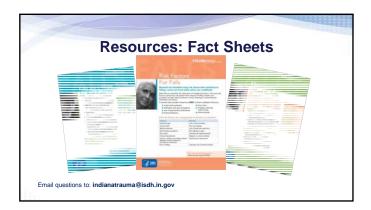


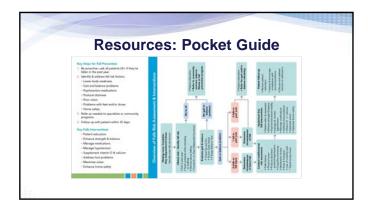
STEADI

- Why does this apply to my organization?
 - Fall risks need to be identified.
 - Offering and referring to evidence-based fall prevention programs (EBPs) is critical.
 - Brings opportunities for other collaborations in the community (e.g., Stepping On, home visitation/screening programs, Matter of Balance, T'ai Chi, and other evidencebased programs).







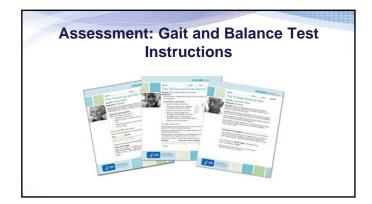


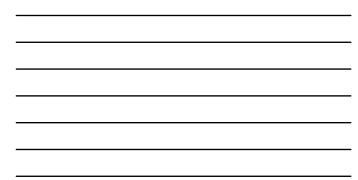


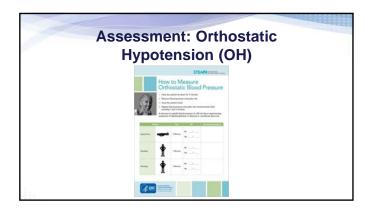




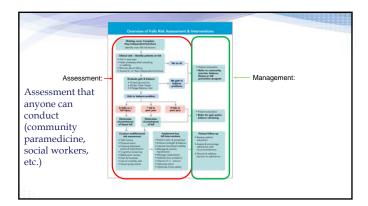
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		& months.	fail again.	finding at exercise program that
- (J)	-	I use or have been added to over a case or wather to get amond safety	People who have been advised to use a sent or walker may already be more thely to fail.	 Ask your dactor or pharmonist to resister your medicines
304.03	-	Surretines I leaf atmenty when I are walking	Uniteradiones or reading support while welking are signs of poor holence.	 Get annual eye check-ups and up your symplecter
-	144	I steady report by holding onto furniture abars sufficing at home	This is also a steps of poort holonom.	Create a safe home environment Re having
m+(1)	-	I pro accorded about failings.	People alto are serviced shout falling are more likely to fall.	 Railings an all states and adding goals have in the hadronse.
·***	-	I hand to pick with my hands to stand up hands	This is a sign of result log matches, a region measure for fulling	· Good home lighting, especially
Bee (1)	-	Thread arrive brouble stepping	This is also a sign of assot log-mandee.	Your doctor may support
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Bei 172	-	I after fast and or depresend.	Reproductions of despenditure, and is not heading.	
telef.		Add up the number of points If pine scored 4 points or more Danuar tim brackurs with on	ic prive may be at risk for falling	1



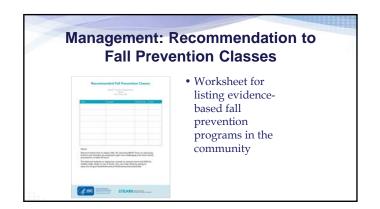










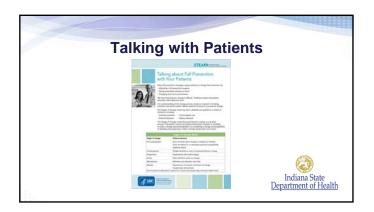


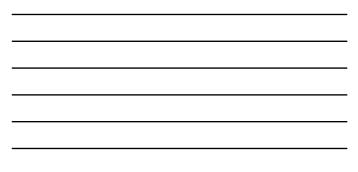






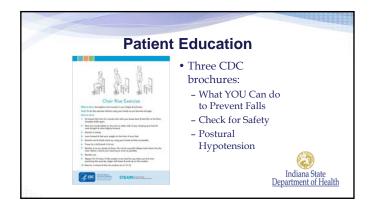




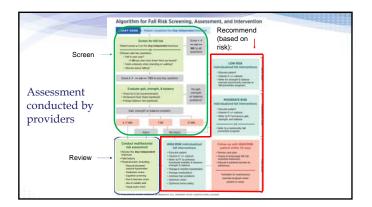












Physician's Role with STEADI Toolkit

- What is your role?
 - Ask that older adults initiate conversations with their doctors.
 - Hand out Stay Independent brochures.
 - Educate practitioners in your community about STEADI.
 - Offer trainings and support for fall prevention in your area.
 - Consider what partners in your area can use STEADI.

Email questions to: indianatrauma@isdh.in.gov



Physician's Role with STEADI Toolkit (continued)

• What is your role?

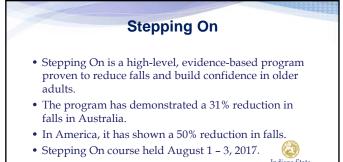
 Use evidence-based falls prevention programs such as Stepping On, Matter of Balance, T'ai Chi, etc. to support your mission.

- Spread the word about STEADI because it is FREE!
- Introduce health systems with community programs, classes, and groups.









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Indiana State Department of Health



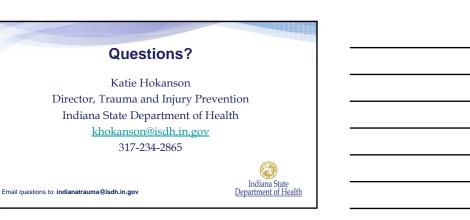
Indiana Fall Prevention Coalit (INFPC)	ion
• INFPC mission:	
 Promote evidence-based fall prevention programs throughout Indiana 	
 Increase statewide collaboration around fall prevention around fall prevention 	ntion in
- Promote fall prevention as a public health priority Indiana	in
	Indiana State artment of Health

INFPC (continued)

- INFPC mission (continued):
 - Build infrastructure and sustainability for fall prevention in Indiana
 - Assess needs and increase availability and quality of fall data in Indiana
- Contact:
 - Linda Sinclair (lisincla@iu.edu)
- Email questions to: indianatrauma@isdh.in.gov







BULLETS

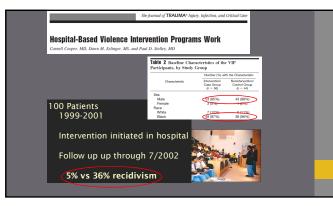
My journey in the work to reduce the impact of gun violence #STL

-l j punch -with help from Poli Rijos, MSW

2

A little bit about you. A little bit about me.

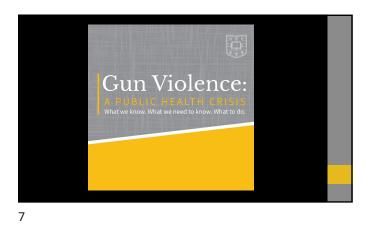












Gun Violence Initiative

Work with national experts, WUSTL community, and local stakeholders to:

- Better understand and raise awareness
- Identify and address gaps in data and research

• Empower policymakers and the public with better information

• Find actionable measures



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Key Structures

- •Cross Campus events
- •National Speakers
- •Raise awareness of the impact of gun violence

St. Louis Area Violence Prevention Commission

- Works to reduce violent crime in the region by promoting and advocating a coordinated, well-resourced support
- Comprises more than 50 initiatives in:
- Education
- Healthcare
- Law enforcement
- Neighborhoods
 Social services
- Advocacy





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Key Structures

- •Quarterly Meetings •Monthly Sub-Committee
- •Quantify services already available
- Identify opportunities for collaboration
- Define common goals
- Share resources
- Create new initiatives only where truly needed





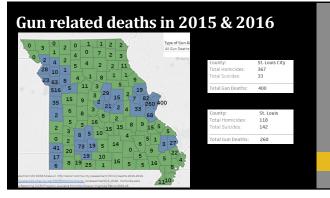






Murder Rates of Major U.S. Cities		City of St. Louis		
Find a city				
City	2017 rate Rate, 1985-2017			
All cities >250,000	*	The homicide rate per 100,000 290.8		
St. Louis, MO	64.6	residents in Greater Ville, a		
Baltimore, MD	55.2	neighborhood in St. Louis, is more than three times higher than in		
New Orleans, LA	40.4	Honduras, the world's murder capital.		
Detroit, MI	39.7			
Cleveland, OH	33.4	90.4 59.3		
Kansas City, MO	31.7	175		
Memphis, TN	26.9	4.9 47.5 U.S. CHICAGO ST. LOUIS HONDURAS THE GREATER		
Newark, NJ	25.9	VILLE		
Chicago, IL	23.8	SCURCES FBF UCP (2005), Linked Netions Office on Drugs and Crime (2002), St. Louis PD (2005) TRACE_		





Policies

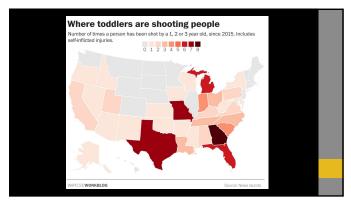
No universal background checks
Repeal of permit to purchase (2007)
Permit-less carry (2016)
Relinquishment gap

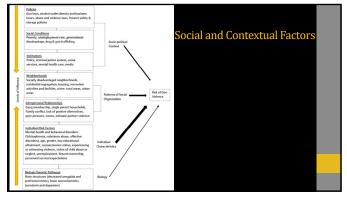
IPV offenders barred from owning guns but does not equal surrendering
States with surrendering laws had lower IPH

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Arch City's Youth

- •23% of City pop is youth
 - 40% live in poverty (19% higher than state and nation)
 - 1 out of 5 are classified as homeless by SLPS
 - Violent teen death rate is 108.2 per 100k (more than 2x MO)
 High school drop out rate is 9.6% higher than state and 9.9% higher than STL County
 - \bullet Graduation rates have increased to 70% (still the lowest in the state)
- Decrease in juvenile law violation referrals
- rce: Behavioral Health Network. (2017) 2017 St. Louis Youth Behavioral Health Community Needs Assessment





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Gun Violence is not only a burden to our health care system and health care providers but also to victims' families and region's economy.

We are talking about someone's life!

How do we begin to heal?

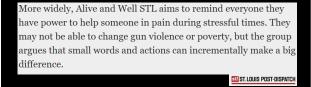
Alive and Well Communities

- Initially launched by St. Louis Regional Health Commission
- $\bullet\ensuremath{\mathsf{Community}}\xspace$ wide effort focused on reducing the impact of stress and trauma
- Offers trainings about the impact and prevalence of trauma and stress on health



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Alive and Well Communities





Crime Victim Center

- Founded in 1972 as the first victim service agency in the nation
- CVC offers a wide range of services for individuals, communities and other organizations and institutions seeking to improve their services to victims of crime
- Provides resources, counseling, advocacy and referrals for victims of crime and their families



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St. Louis Area Hospital-Based Violence Intervention Program (STL-HVIP)

- <u>Medical Partners:</u> Barnes-Jewish Hospital Saint Louis University Hospital
- St. Louis Children's Hospital
- Cardinal Glennon Children's Hospital
- The Institute for Public Health at Washington University

Academic Partners:

- Washington University in St. Louis
- St. Louis University
- University of Missouri-St. Louis
- Funded by MO Foundation for Health



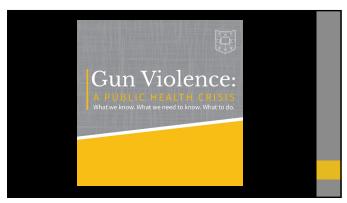
Life Outside of Violence (LOV)

- Promote positive alternatives to violence
- Decrease recidivism:
 - Retaliation
 - Criminal involvement
 - Re-injury
 - Death

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LOV: Key Features = 2 years in the making.

- Data Sharing agreement among all Level 1 Centers
- Three year pilot supported by MFH
- •10 Case Managers shared between 4 institutions
- Extensive training for CM before beginning program
- Ongoing discourse with individual hospitals for future support
 Intense focus on cost effectiveness



Counseling on Access to Lethal Means (CALM)

- Led by emergency department physician Dr. Kristen Mueller
- Staff trained using CALM module developed by Suicide Prevention Resource Center

- Steps 1. Identify patients having suicidal ideation and offer services
 - 2. Counsel patients on how to temporarily story dangerous items
 - 3. Staff follows-up for additional support

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Community Organizations

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Juvenile Detention Center: The 80:80 Paradigm

- •Taught by medical students
- •Every week, same time
- •Youth who have previously taken the class are invited to come help teach
- •All get tactical style TFA kit

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Juvenile Detention Center

- •Longitudinal volunteer experience after no longer detained
- •Opportunity for Employment
- True Mentorship

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LESSONS LEARNED

• Listen

- •Ask what is needed, don't assume
- But don't be afraid to bring what you have and be willing to change, adapt as you learn
- Collaboration is essential.
- Dollars have to be impactful to continue to flow.



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