

Helmet Safety **Community Outreach Project** Brandon Colwell, P.A.-S., OHSU

Introduction

Date: June 13, 2022

Location: Highland Park Middle School

Contact: Deanna Gentry, PE Teacher

Target Audience: teens, age 11-13 years total attendees 700

Format: Video Presentation

Background

Learning Objectives

- Benefits of wearing a helmet
- Consequences of not wearing a helmet
- Mechanism of helmet safety
- Proper fit of a helmet
- Activities in which a helmet should be worn



Populations at Risk

- There is an average of 608 children per day treated in the ER for bicycle-related injuries in the US¹
- Children not wearing helmets are x2.9 more likely to be hospitalized and x4.3 more likely to have a traumatic brain injury¹
- Children 10-14 years have highest incidence of bicycle-related traumatic brain injuries²



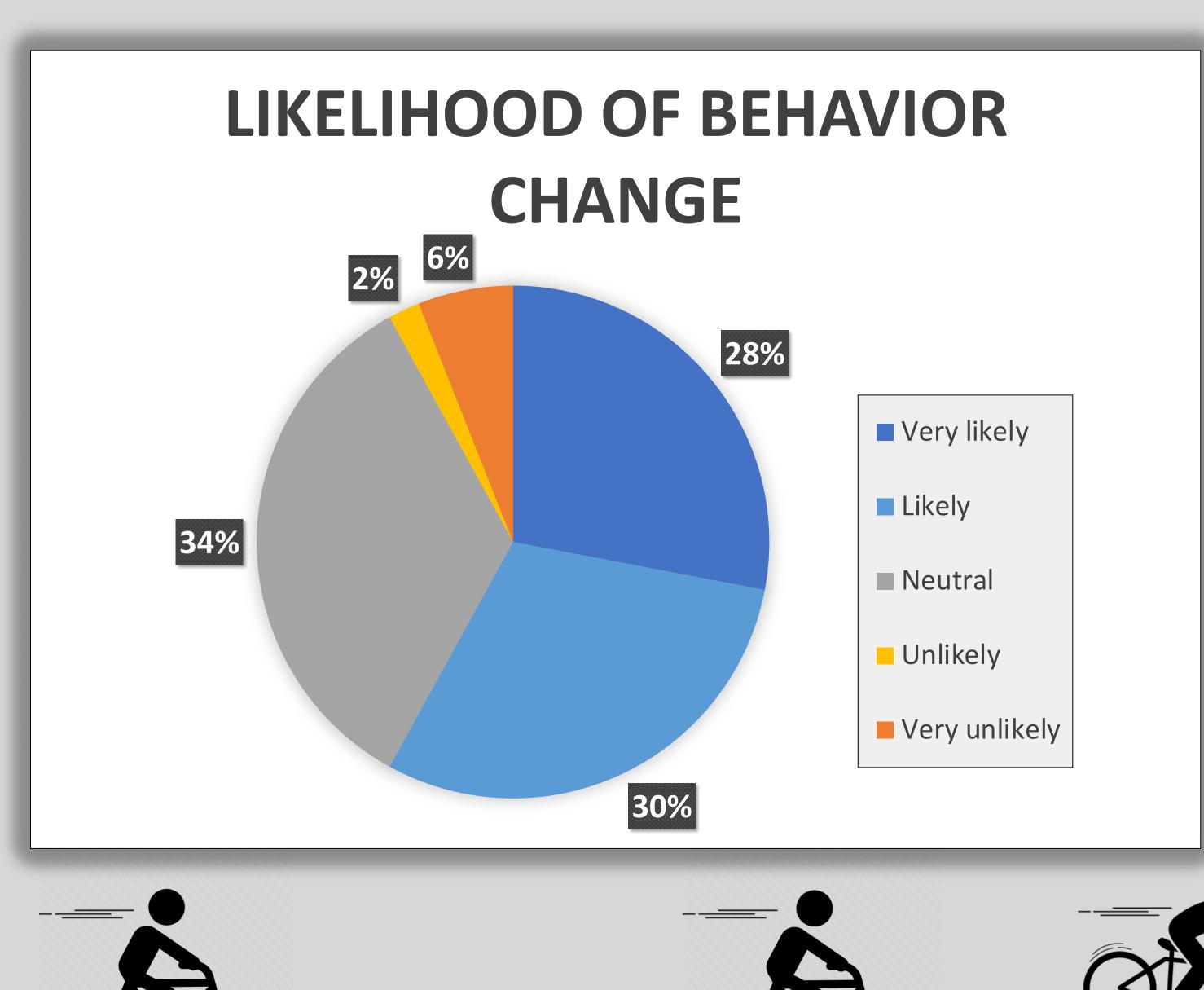
Content

Helmets lessen an impact to the head by absorbing some of the energy and dissipating the force through a larger area of the helmet³.

A properly fitted helmet can prevent traumatic brain injuries, including concussions³.

Activities when a helmet should be worn include football, baseball, hockey, lacrosse, skiing, sledding, and riding bikes, skateboards, all-terrain vehicles, and scooters⁴.

An effective analogy to promote helmet safety in teens is relating a brain to a cell phone. If a teen knows the importance to have a phone case to prevent damage, then they will also understand the importance of helmets to protect the brain⁵.







Opportunities

• Video was played for the entire school with ~700 attendees

Challenges

- presentation

Evaluations

properly fit a helmet.

Reflection

1. McAdams RJ, Swidarski K, Clark RM, Roberts KJ, Yang J, Mckenzie LB. Bicycle-related injuries among children treated in US emergency departments, 2006-2015. Accident Analysis & Prevention. 2018;118:11-17. doi:10.1016/j.aap.2018.05.019. 2. Sarmiento K, Haileyesus T, Waltzman D, Daugherty J. Emergency Department Visits for Bicycle-Related Traumatic Brain Injuries Among Children and Adults — United States, 2009–2018 MMWR Morb Mortal Wkly Rep. 2021;70(19):693-697. doi:10.15585/mmwr.mm7019a1. 3. Prevention C on I and P. Bicycle Helmets. Pediatrics. 2001;108(4):1030-1032. doi:10.1542/peds.108.4.1030. 4. Heads Up - Wear a Helmet! intermountainhealthcare.org. https://intermountainhealthcare.org/blogs/topics/pediatrics/2018/09/heads-up-wear-ahelmet/. 5. Ryan LM, Solomon BS, Ziegfeld S, et al. Evaluation of a Culturally Tailored Educational Video Intervention to Promote Bike Helmet Safety for Urban Children: A Pilot Study. Health Promotion Practice. 2020;21(6):872-876. doi:10.1177/1524839920920304.



Discussion & Conclusion

• Unable to determine how many attendees would regularly wear helmets prior to Convincing teens to wear helmets by overcoming opposing peer pressure

 Students' responses demonstrated knowledge of helmet safety, including how a helmet prevents concussions and how to

• By using a video format for my presentation, it was possible for the video to be played for a larger audience (the entire school) without schedule conflicts. • From the survey responses 58% of students reported that they will likely change their

behavior because of the presentation.

References