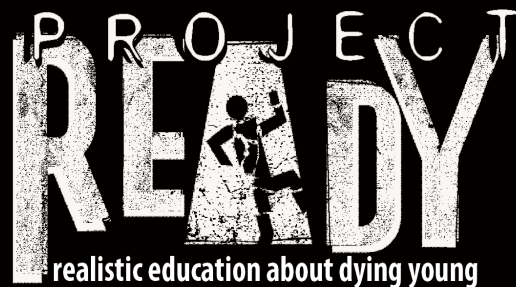


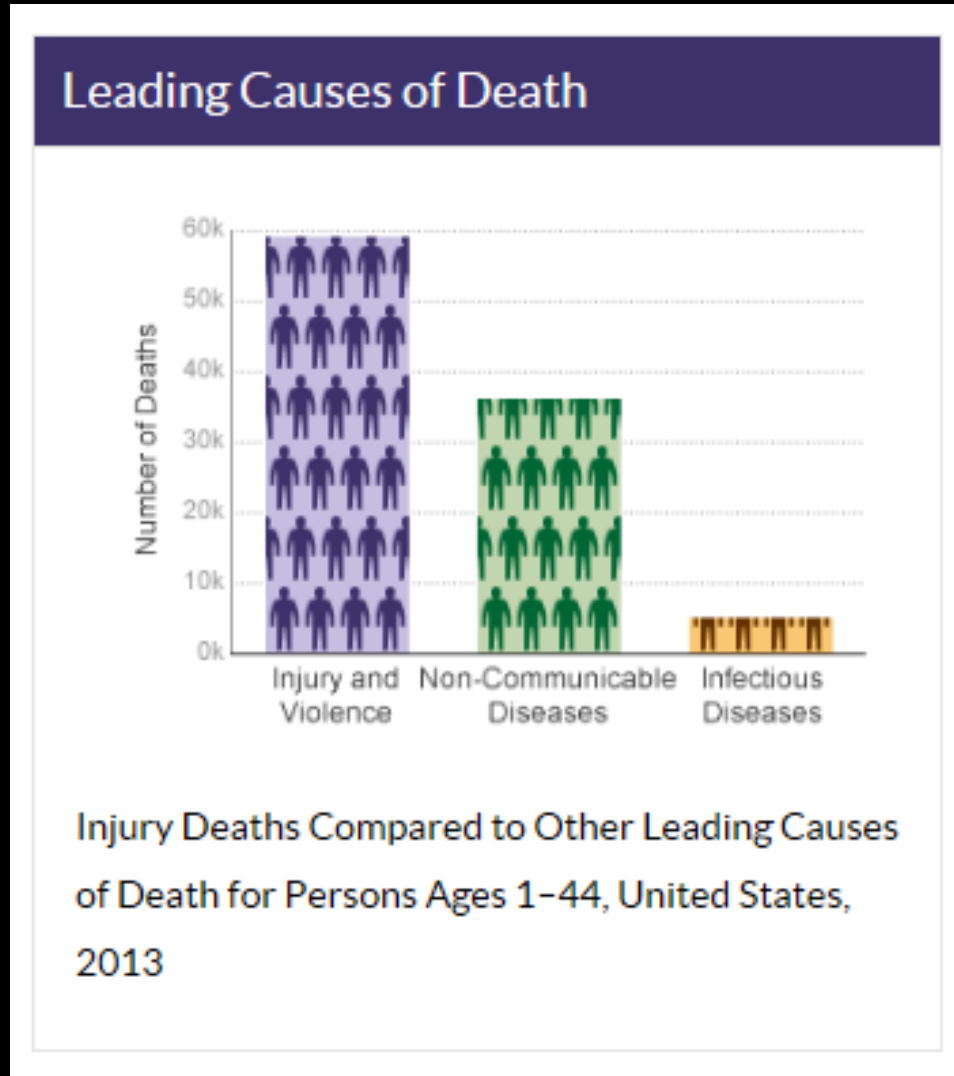


# Hospital-Based Injury & Violence Prevention Intervention



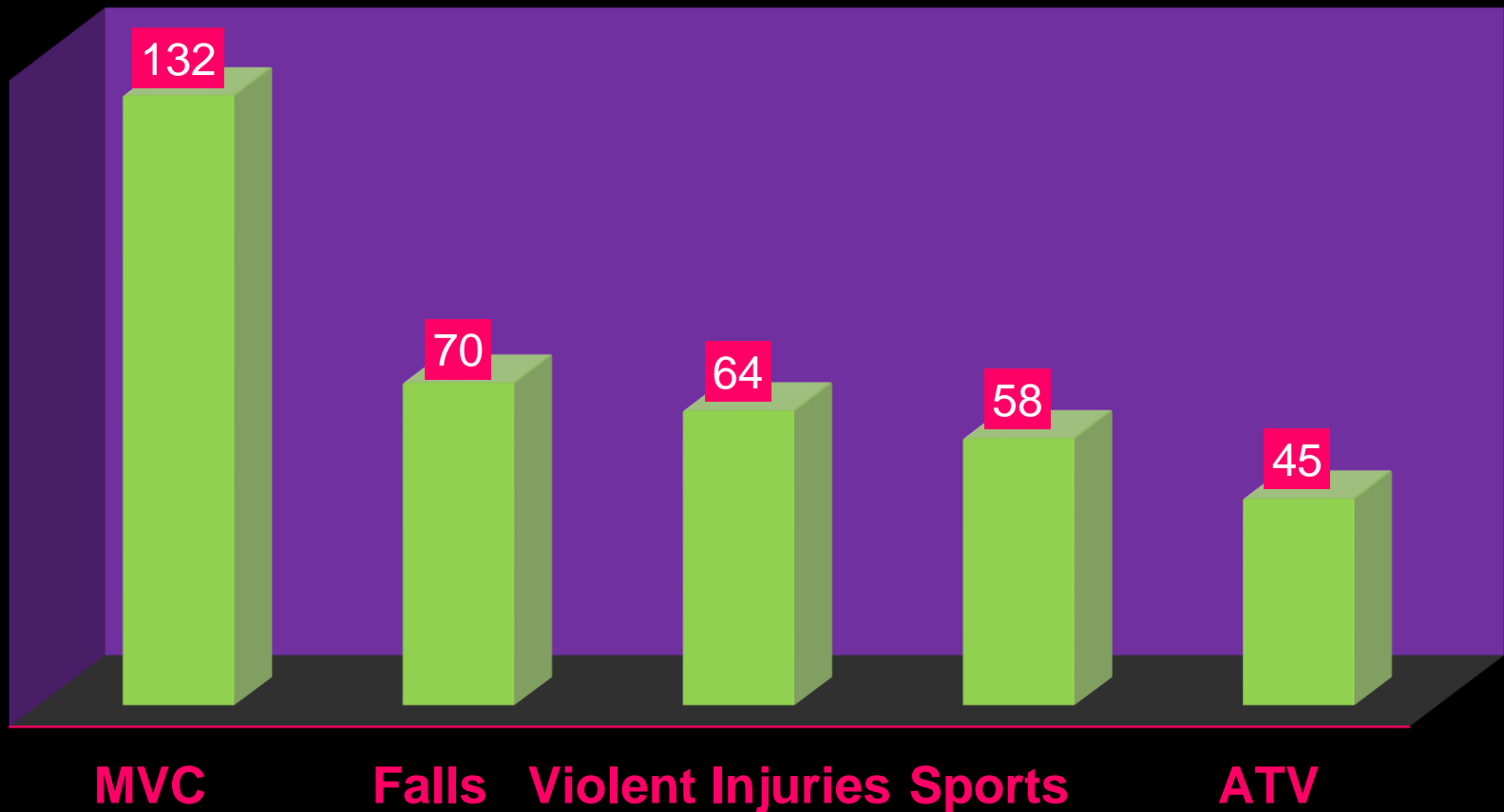
Presented by:  
Nichole Kent Spivey, MBA  
Injury Prevention Coordinator  
Palmetto Health Richland Level I Trauma Center

# # 1 Killer for Ages 1-44



# Top 5 Trauma Visits Ages 11-18

■ Leading Causes of Injuries





# PROJECT READY

realistic education about dying young



# Project READY

## Realistic Education About Dying Young

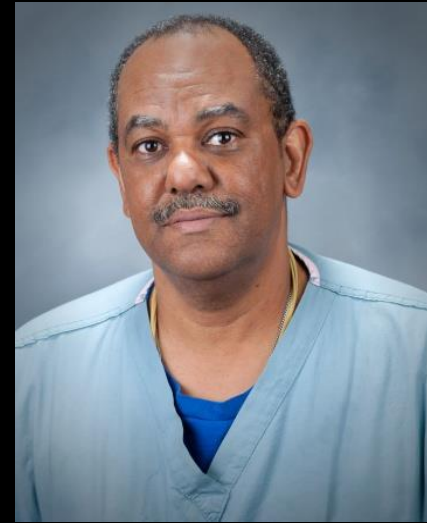
- demonstrates consequences of risky behaviors that lead to traumatic injury
- designed to help young adults make better choices
- a hands on, eye opening, interactive experience



# Program Origin

## ◎ Project READY:

- The brain child of Raymond Bynoe, MD, Former Trauma Medical Director at Palmetto Health Richland.
- Program initiated in November 1999.
- The central concept for program was to provide adolescents with realistic insight of the effects of violence.



Raymond Bynoe, MD, FACS

# Curriculum

## Program Modules

- ◎ **Motor Vehicle Safety**
  - Distracted driving (texting, etc.)
  - Speeding
  - Impaired driving (alcohol & drugs)
  - No seat belt use
- ◎ **Trauma Treatment**
  - Overview of blunt and penetrating trauma
  - Trauma Statistics
- ◎ **ThinkFirst**
  - Brain and spinal cord injury education
  - Illustrate the consequences of poor choices
- ◎ **Hospital Tour**
  - Emergency Room/Trauma Bay
  - Operating Room
  - Rehab Gym
  - Morgue



# Motor Vehicle Safety

## Learning Objective:

To improve decision making to decrease the risk behind the wheel of an automobile.

- **Leading causes of motor vehicle crashes**
  - a. Non Seat Belt Use
  - b. Impaired Driving
  - c. Distracted Driving
  - d. Speeding
- **Evaluate state laws and penalties**
  - a. Examine South Carolina's laws pertaining to adolescent drivers
  - b. Overview of South Carolina's Graduate Drivers License requirements
- **Demonstrate alcohol toxicity effects**
  - a. DUI drunk goggle activity





# Trauma Treatment

## Learning Objective:

Increase knowledge about the Level I Trauma Center by exposing participants to real life patient cases.

- What is a level I trauma center?
- Trauma Statistics
- Overview of blunt trauma
  - a. Head and facial injuries
  - b. Rib fracture injury
  - c. Motor vehicle crash injuries
- Overview of penetrating trauma
  - a. Gunshot wound
  - b. Stab wound
  - c. Motor vehicle and motorcycle crash injuries



# ThinkFirst

## Learning Objective:

Helping teens to reduce their risk for traumatic brain and spinal cord injuries by explaining how injuries occur, how they affect the body, and how they can be prevented.

- Brain or spinal cord injury education
  - a. Overview of the spinal column and the effects of spinal cord injuries
- Illustrate the consequences of poor choices
  - a. Review how the brain functions and how injury will affect the brain
  - b. DVD
  - c. Voice of Injury Prevention (VIP) Speaker (person with brain or spinal cord injury)

# Hospital Tour

## Learning Objective:

Expose participants to the ED, OR, therapy gym, and morgue to touch and feel the real equipment used to treat injuries.

- Room Layout for ED and OR
- Describe all roles necessary for OR
- Process of being admitted into the morgue
- Interact with PT, OT, ST to become aware of the daily challenges experienced by trauma patients.



- We have reached over 5,000 adolescents served through the Project READY program from June 2013-present.



# Program Evaluation

- In 2014, we conducted a IRB study to measure the participants' level of risk before and after the program using the validated National Youth Risk Behavior Survey (YRBS).

Questions		Pre-Test (n, %)		Post-Test (n, %)		P value	Notes
		Rarely/Never	Sometimes/Often/Always	Rarely/Never	Sometimes/Often/Always		
1	Among those who rode ATV in past 12 months, those who never/rarely wore helmet	8 (50.0)	8 (50.0)	7 (43.8)	9 (56.3)	0.317	Decrease (6%)
2	Never/rarely wore a seat belt when riding a car driven by someone else	6 (6.0)	94 (94)	2 (2.0)	98 (98.0)	0.046*	Decrease (4%)
3	Among those who drive, those who never/rarely wore a seat belt	2 (4.9)	39 (95.1)	1 (2.4)	40 (98.6)	0.317	Decrease (2.5%)
4	Among those who drove in past 12 months, those who texted/emailed	15 (50.0)	15 (50.0)	15 (53.3)	14 (46.7)	0.706	Decrease (3.3%)
5	Rode in car/vehicle with someone who texted/emailed in last 30 days	39 (39.3)	60 (60.6)	43 (43.3)	56 (56.6)	0.450	Decrease (4%)
6	Rode in car/vehicle with someone who have been drinking in last 30 days	82 (82.0)	18 (18.0)	90 (90.0)	10 (10.0)	0.074	Decrease (8%)
7	Among those who drove in past 12 m, those who have been drinking	28 (87.5)	4 (12.5)	30 (93.8)	2 (6.3)	0.317	Decrease (6.3%)
8	Carried a weapon on one or more of the past 30 days	91 (91.0)	9 (9.0)	91 (91.0)	9 (9.0)	1.000	No Change
9	Carried a gun on one or more of the past 30 days	93 (93.9)	6 (6.1)	95 (96.0)	4 (4.0)	0.527	Decrease (2.1%)
10	Were in a physical fight on one or more of the past 30 days	71 (71.0)	29 (29.0)	92 (92.0)	8 (8.0)	<0.0001*	Decrease (21%)
11	Were in a physical fight with injuries (doctor) on one or more of the past 30 days	96 (96.0)	4 (4.0)	98 (98.0)	2 (2.0)	0.414	Decrease (2%)

# Results

- ◎ In 2014, 221 adolescents participated in the Project READY program and 100 (45%) of the participants completed both the pre and post-test surveys. Demographics of the participants were, 61.0% black and 30.0% white. There were 48 males (48.0%) and 52 females (52.0%) with a median age of 15.
- ◎ Among several questions there was a significant decrease (21%) in the risk-taking behavior of participating in physical fights in the past thirty-days. There was a 4% decrease in participants answering they “Never/Rarely” wore a seat belt as a passenger in a car. A decrease of 8% in responses to Question 6, regarding participants riding in a car with an impaired driver.

# SimCoach Presentation

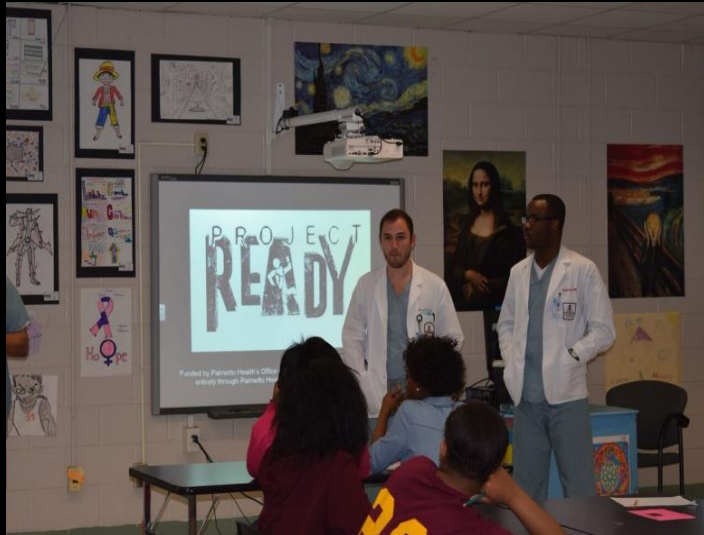






# Classroom Presentation

- ◎ 45-minute PowerPoint Presentation
- ◎ 5-minute Question/Answer Session



# SimCoach Layout

## ○ Trauma Bay

- Hospital Bed
- Live Patient Moulaged
  - C-Collar
  - Leg Splint
  - Wounds
- Code Cart
- Heart Monitor
- Slide Show playing on the TV

## ○ Operating Room

- Hospital Bed
- Intubated Simulator
- Ventilator
- Code Cart
- Heart Monitor
- Open Heart Video playing on the TV







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For more information about Project READY visit  
[www.palmettohealth.org/trauma](http://www.palmettohealth.org/trauma)