OUR HEALTH SYSTEM AND E-BIKE AND BIKE INJURIES

Key West City Commission Meeting October 2, 2019

PANEL:

John Norris MD – Chief of Staff, Lower Keys Med Center Eddie Perez – Division Chief of EMS, Key West Fire Department Matthew Partrick MD – Emergency Dept. Chief, Lower Keys Med Center Christopher Bensen MD - Orthopedics, Lower Keys Med Center

FACTORS RELATED TO INJURY

- Autos, pedestrians and cyclist make mistakes
 Factors involved include velocity, mass, distractions, weather and landscape
- Protection factors helmets, lights and maintenance

KEY PHYSICS FORMULA

Kinetic energy is a measure of impact energy

Kinetic energy = mass x velocity x velocity / 2

• Velocity is a major factor in potential for injury

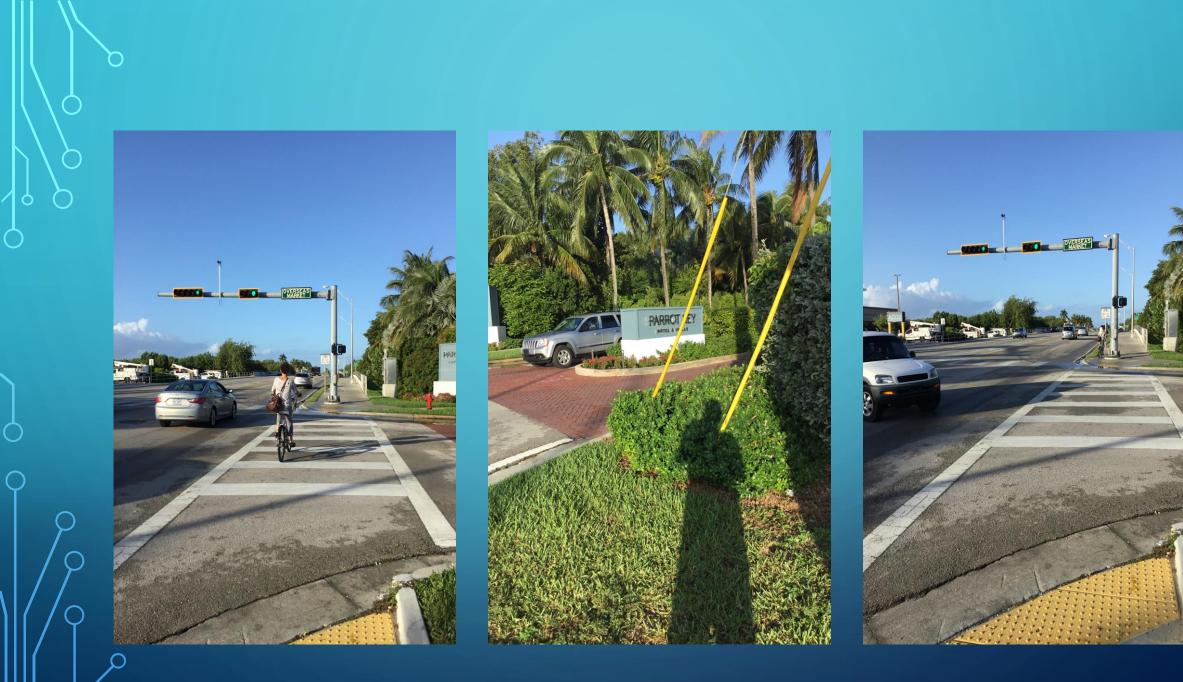
- E-bike go up to 30 miles an hour $(1 \times 30 \times 30 / 2 = 450)$
- Bicycles challenged to reach 20 miles an hour (1 x 15 x 15 / 2 = 112.5)











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EVEN WITH GEAR, LIGHTS AND NO DISTRACTIONS

