

# The Pediatric E-Network: *A Pilot Program for Providing Injury Prevention Education*

---

*Kevin Borrup, JD, Garry Lapidus, PA-C,  
Steven Rogers, MD*

*Connecticut Children's Medical Center*

# Disclosures

- No financial disclosures
- Grant Support provided by:
  - The Allstate Foundation and AAP
  - CT State Office of Policy and Management



# Background

- Healthcare providers successful in providing safety related anticipatory guidance
  - Wearing a helmet
  - Safe sex

*American Journal of Preventative Medicine, 2008*

- Electronic kiosk in healthcare clinic shown to be more effective than paper in providing anticipatory guidance

*Archives of Pediatrics and Adolescent Medicine, 2005*



# Program Development

Funding/Building the System



# Funding Sources

- *American Academy of Pediatrics*  
and *Allstate Foundation*
  - “Teen Driving Safety”
- *Connecticut Office of Policy and Management*
  - “Keep Kids Safe License Plate Grant”



# Goals

1. Supplement/improve pediatrician anticipatory guidance efforts
2. Provide reliable, up-to-date content
3. Develop a flexible platform able to incorporate education with the potential to serve as a screening portal



# Objective

- Evaluate the feasibility of using tablet based technology to provide anticipatory guidance on driving safety



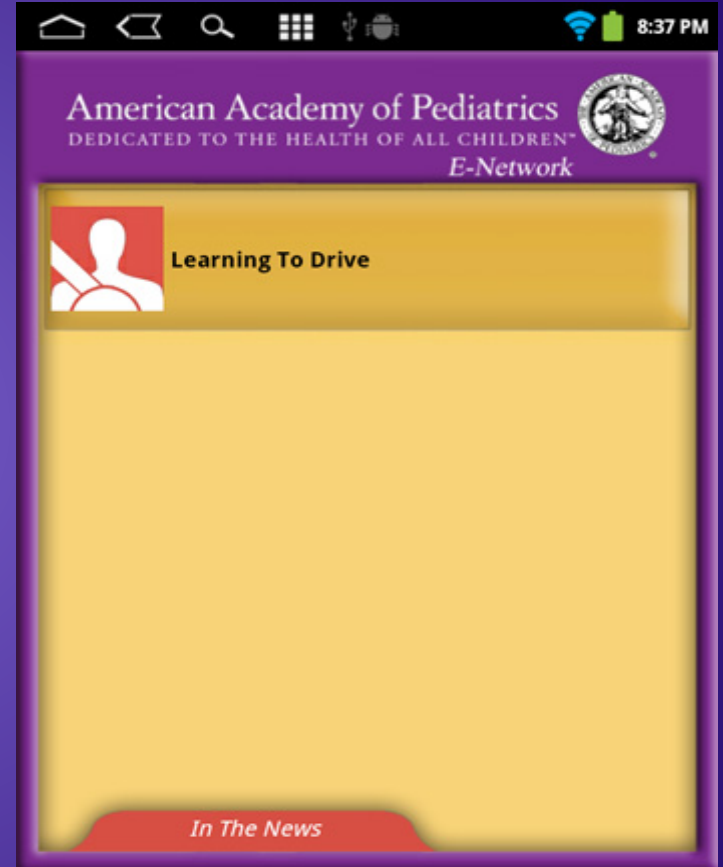
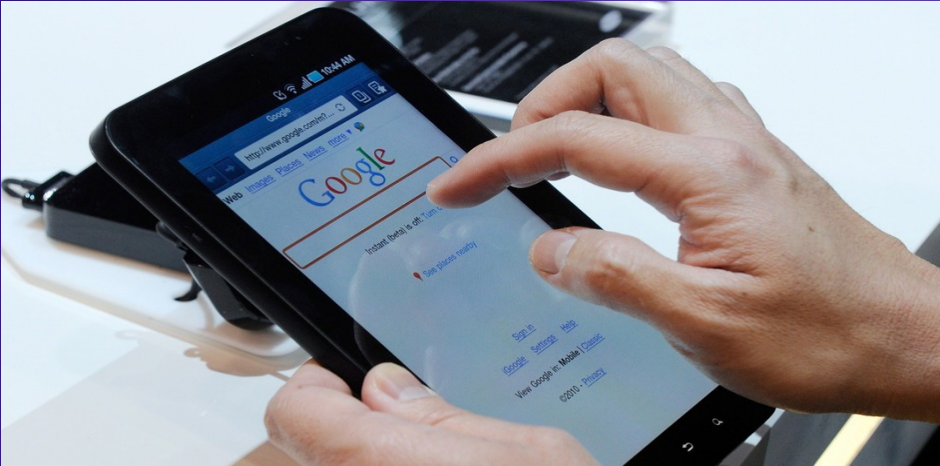
# Methods

1. “App Store” or platform development
2. Programing/App production
3. Network development/tablet distribution
4. Maintenance
5. Monitoring usage





# Platform Developed



# Teen Driver App



# The “Actors”

- Pediatric Surgeon
  - 40,000 teenage ER visits a year from unsafe driving.
- State Trooper
  - Describes how and why Graduated Drivers Licensing prevents car crashes.
- Driving School Instructor
  - Explains how to begin practicing driving, and how to be a safer driver.



# PEDIATRIC E-NETWORK



[www.eNetworkProject.com](http://www.eNetworkProject.com)

American Academy  
of Pediatrics  
DEDICATED TO THE HEALTH OF ALL CHILDREN™  
Hezekiah Beardsley Connecticut Chapter



TEEN DRIVING



BIKE HELMETS



BOOSTER SEATS



PREVENT CHOKING



A SAFETY EDUCATION RESOURCE FOR CARE PROVIDERS



# Inclusion/Exclusion Criteria

## Inclusion Criteria:

Random/convenience sample of pediatric practices identified through the state chapter of the AAP

## Exclusion Criteria:

No internet connection



# Results

- Pediatric Practices = 20
- Pediatricians using tablets = 52
- Number of uses during funded period >1900
- Estimated number of uses annually >5000/year



# Pediatric Provider Groups Demographics (n= 20)

- *Practice type:* solo (1 MD) to 10 MDs
- *Locations:* urban to suburban
- *Socioeconomics:* lower to higher represented
- *Usage:* 12 with high levels of uptake indicated by high daily/weekly usage



# Pilot Study

“Demonstrate Ease of Uptake”





# A Novel Approach to Providing Anticipatory Guidance About Teen Driving Safety

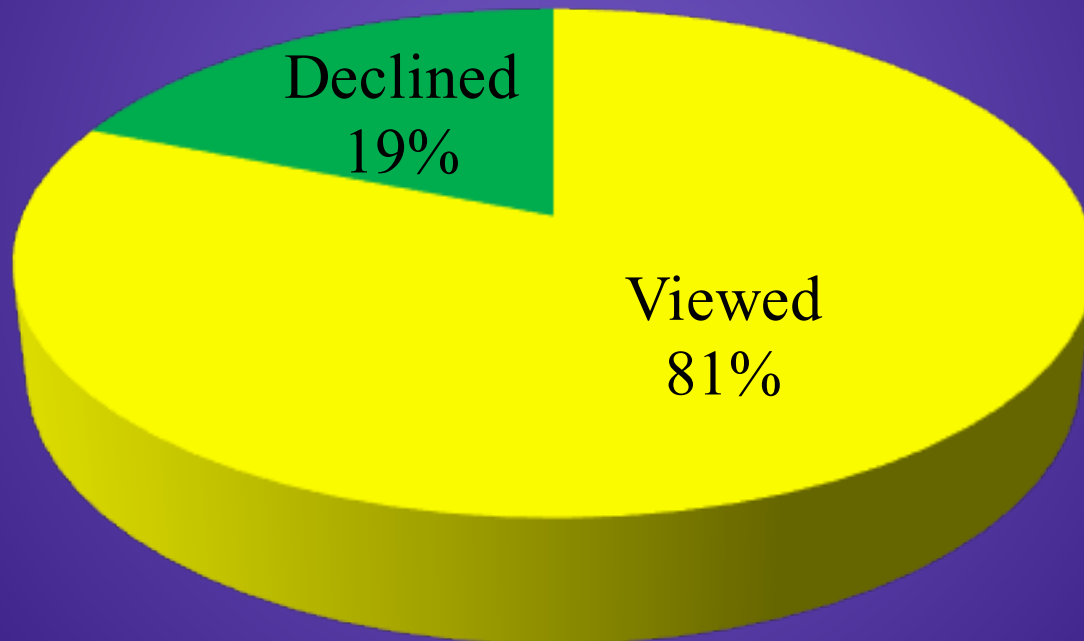
Connor D. McElligott, Bythre McCormick, Kevin Borrup,  
Garry Lapidus, Steven Rogers, Brendan T. Campbell

*Connecticut Children's Medical Center  
University of Connecticut School of Medicine*

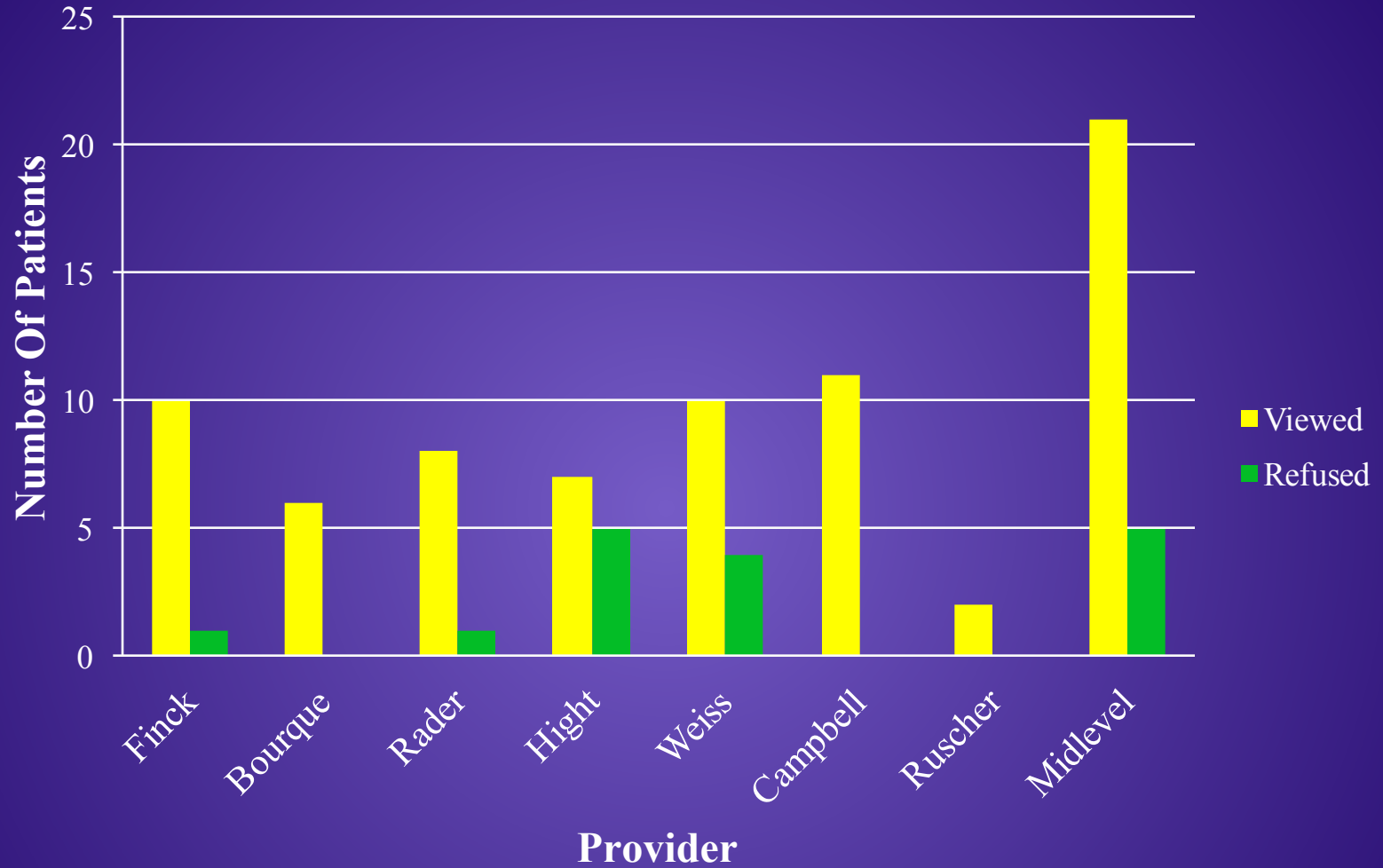


# Results

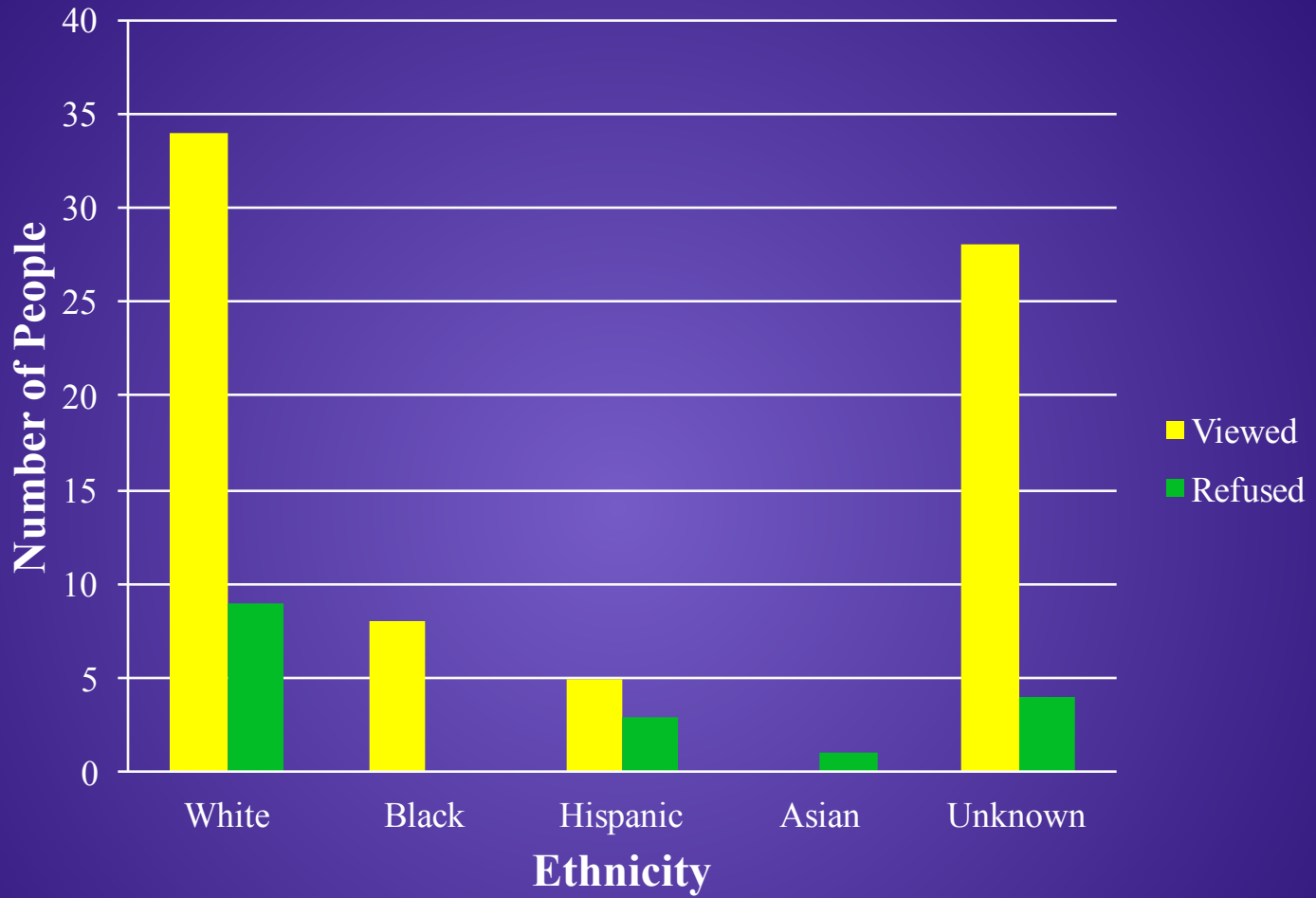
## Patient Viewing Status



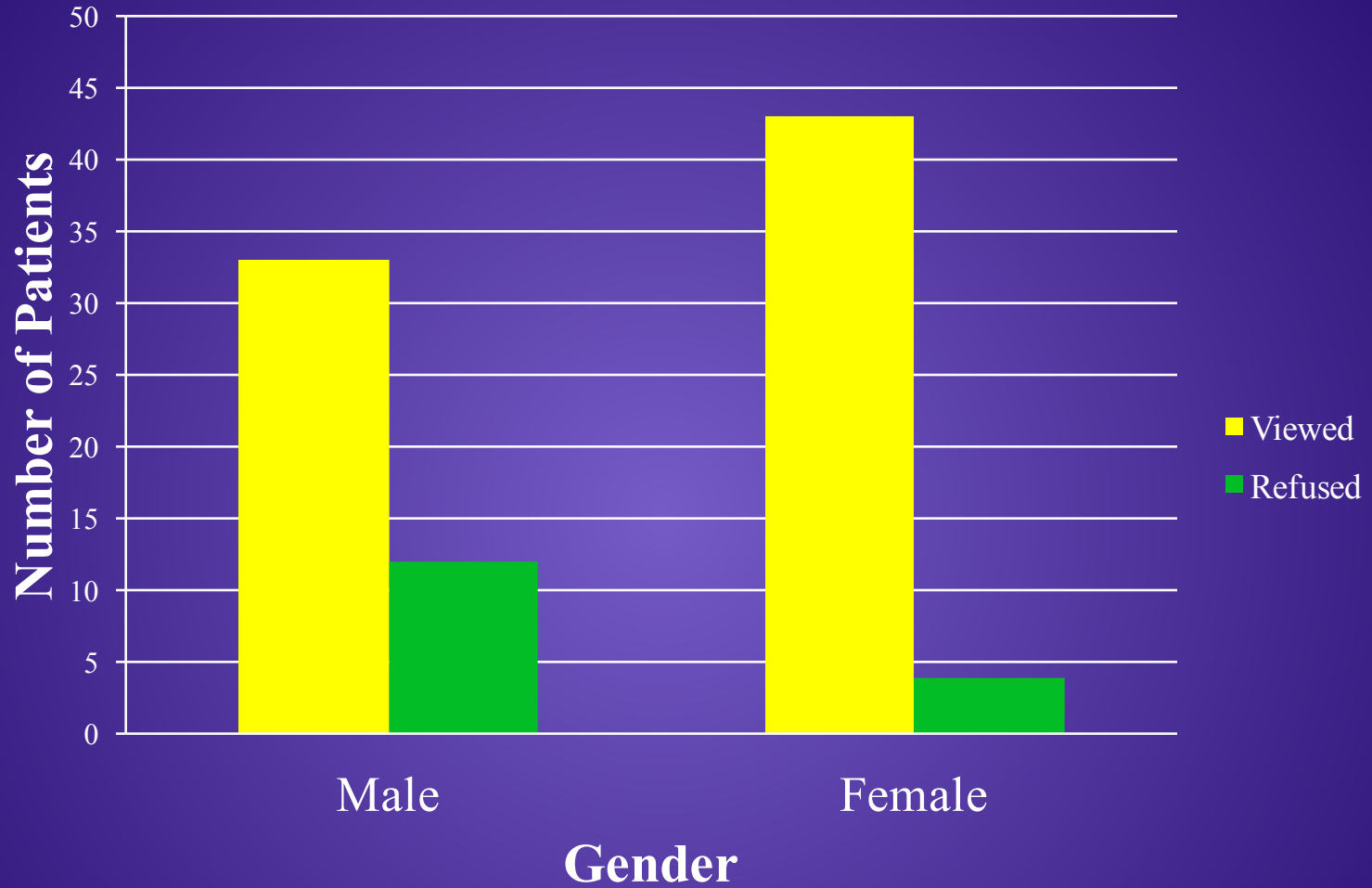
## Tablet Viewing by Provider



# Tablet Viewing by Ethnicity



# Tablet Viewing by Gender



# Additional Apps

Car Seat Safety

Choking Safety

Pedestrian Safety



# PEDIATRIC E-NETWORK



[www.eNetworkProject.com](http://www.eNetworkProject.com)

American Academy  
of Pediatrics  
DEDICATED TO THE HEALTH OF ALL CHILDREN™  
Hezekiah Beardsley Connecticut Chapter



TEEN DRIVING



BIKE HELMETS



BOOSTER SEATS



PREVENT CHOKING



A SAFETY EDUCATION RESOURCE FOR CARE PROVIDERS



# Conclusions

- Tablet technology is a feasible approach to providing anticipatory guidance about injury prevention
- Pediatricians, children and parents are generally receptive to receiving injury prevention information at outpatient clinic visits





# Future Directions

- Future studies should evaluate whether the tablet intervention produces safer behaviors



# Questions

