

Welcome to:

“Innovative Strategies to Support New Teen Drivers Through Primary Care”

Speakers:

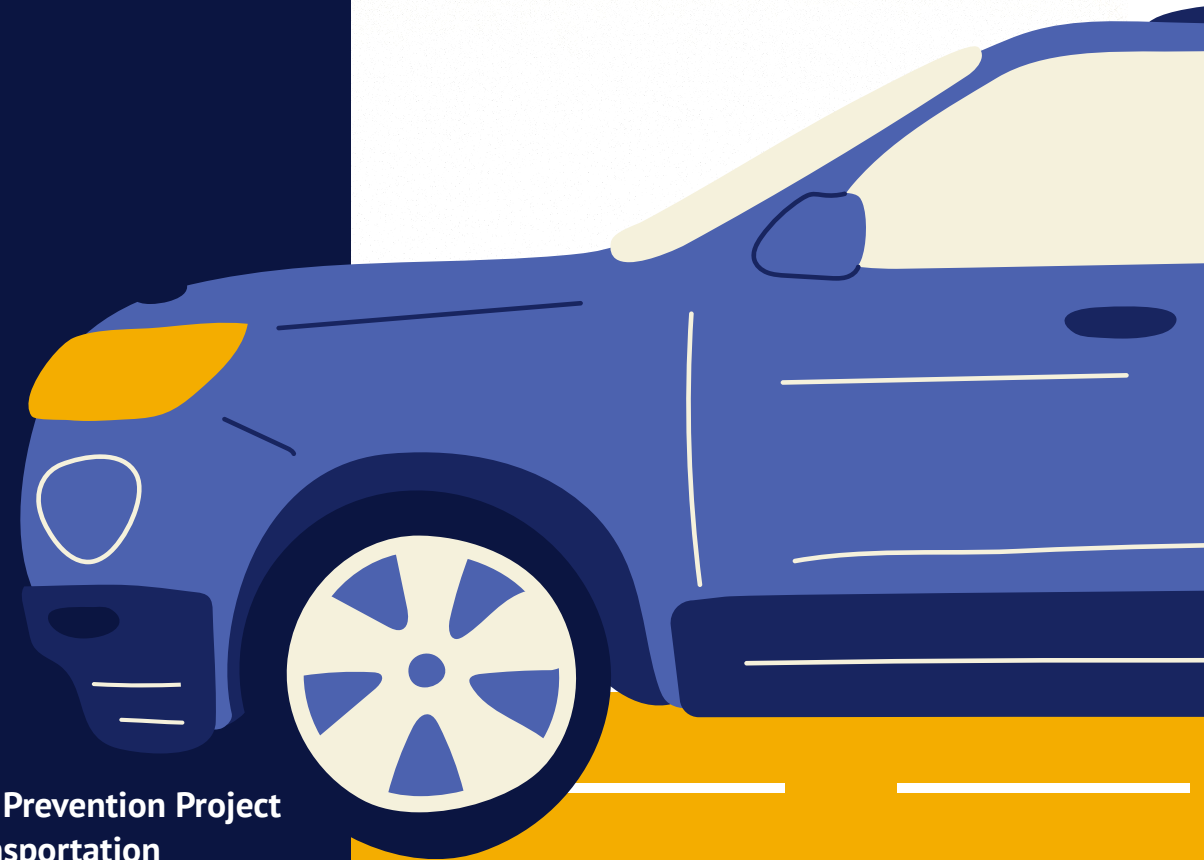
Alexander Fiks, MD, MSCE - Director- The Possibilities Project; Clinical Futures; the Pediatric Research Consortium (PeRC); Director of the AAP Pediatric Research in Office Settings (PROS)

Flaura Winston, MD, PhD - Scientific Director, Center for Injury Research and Prevention; Director, Innovation Ecosystem

Maura Powell, MPH, MBA - Manager, The Possibilities Project

Shannon Kelleher, MPH - Clinical Research Coordinator, The Possibilities Project

Brought to you by: PA Traffic Injury Prevention Project
& Pennsylvania Department of Transportation



**Please type your questions
in the Q & A box**

A big thank you to our speakers:

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**Director- The Possibilities Project; Clinical Futures; the
Pediatric Research Consortium (PeRC); Director of the
AAP Pediatric Research in Office Settings (PROS)**

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Innovative Strategies to Support New Teen Drivers Through Primary Care

Traffic Injury Prevention Program Webinar
Pennsylvania AAP
June 7, 2023



Speakers



Alexander Fiks, MD,
MSCE
Director, The
Possibilities Project,
Clinical Futures



Flora Winston, MD,
PhD
Founder and Scientific
Director, Center for
Injury Research and
Prevention



Maura Powell, MPH,
MBA
Manager, The
Possibilities Project



Shannon Kelleher,
MPH
Research Coordinator,
The Possibilities Project



Tragedies behind the numbers

Chicago Sun-Times Monday, July 8, 2002

Teen killed, 7 hurt in Elgin-O'Hare crash



Teen driver in fatal crash was not drunk

By Joe Gerrety
Journal and Courier

A teen-ager who died from injuries suffered in a Feb. 5 one-vehicle crash on Indiana 25 West did not have alcohol in his system, contrary to a story published in Wednesday's *Journal and Courier*.

Bryan K. Snyder, 18, died early Feb. 6 in Home Hospital from injuries he suffered in a crash at 9:48 p.m. the night before. The crash occurred when the passenger-side tires went off the

corrected, crossed the road and crashed into a farm field. The pickup truck he was driving rolled, and Snyder was ejected, suffering serious injuries.

Tippecanoe County deputy coroner Jane Haan said she misread a Home Hospital toxicology report that she consulted Tuesday in response to a *Journal and Courier* inquiry.

"I just misread the information," Haan said. "We

The toxicology report showed that Snyder's blood-alcohol content was less than 0.013 percent, which means negative. Haan misread the information as 0.13 percent. The current legal limit for driving in Indiana is 0.08 percent.

Snyder's blood also was negative for all other drugs for which the hospital tested.

After reading the story in Wednesday's *Journal and*

Scholarship fund

Max Snyder, the father of Bryan K. Snyder, has established a scholarship fund in Bryan's memory.



Snyder

Because Bryan hoped to become a police officer, Max plans for the scholarship to benefit other

students with the same career goal.

Contributions may be sent to Bryan's Scholarship Fund; c/o The Farmers Bank; P.O. Box 280; Mulberry, IN 46058-0280. Max Snyder can be contacted by e-mail: max@mintel.net

Learning Objectives

1. Understand the diversity of new teen drivers and why they are at a higher risk of crashing in the first year of licensure
2. Gain insights into how to integrate teen driving resources into the adolescent well visit
3. Identify best practices on how to onboard a virtual driving assessment in a pediatric primary care setting

Thank you to our sponsor

This work is supported in large part to a gift from NJM Insurance Group to support

The Possibilities Project
Center for Research and Prevention and
CHOP Care Network

to **implement and operationalize a new focus on young drivers** with Virtual Driving Assessments across the CHOP Care Network



Center for Injury Research and Prevention

>3 decades of research to action for safety



Mission: Advancing the pace of research to keep children safe by **reducing physical & emotional injury & violence & promoting recovery**

How: through interdisciplinary science and translation of our discoveries into breakthroughs in **technology, clinical care, policy and education**



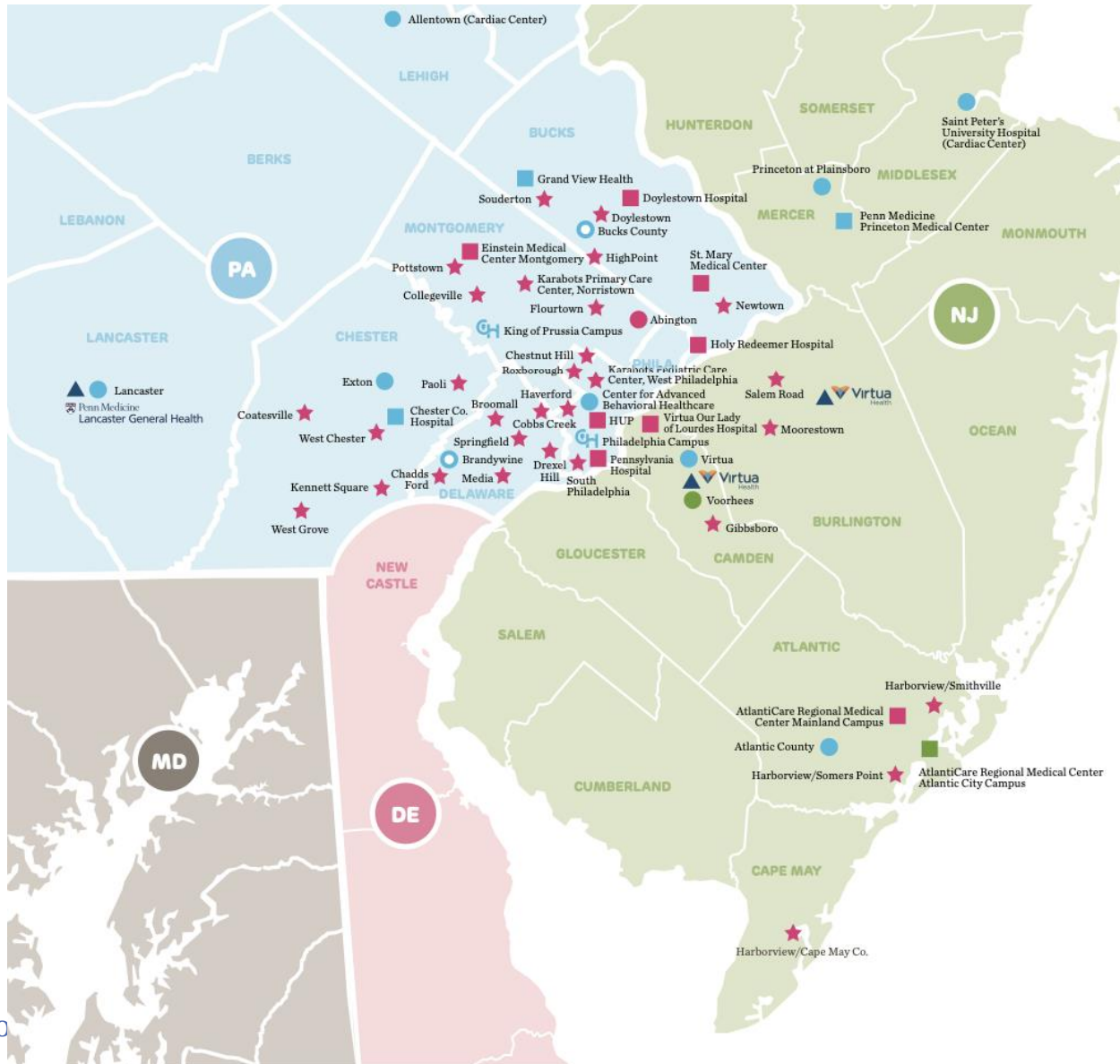
Learn more: <https://injury.research.chop.edu>

The Possibilities Project

- Mission: to reimagine and reengineer the way we deliver primary care in the CHOP Care Network through innovation.
- How: through innovative pilots and rigorous evaluation, TPP seeks to design a system that delivers care directed towards the needs of contemporary families and the issues they face.
- TPP functions as an innovation incubator, where ideas are processed, tested, and evaluated thoroughly before they are either discarded, put on hold, tested on a larger scale, or transitioned into operations.



CHOP Care Network



- ★ Primary Care Practice
 - ☆ Primary Care Practice & After-Hours Urgent Care
 - Specialty Care Center
 - ⦿ Specialty Care Center, Surgery Center & After-Hours Urgent Care
 - Specialty Care & Surgery Center
 - ⦿ Specialty Care Center, Surgery Center, After-Hours Urgent Care & Home Care
- COMMUNITY INPATIENT PROGRAMS**
- CHOP Newborn Care
 - CHOP Pediatric Care
 - CHOP Newborn & Pediatric Care
 - ▲ Hospital & Integrated Specialty Program

- 31 primary care practices
- ~700,000 visits FY'22
- ~300,000 patients
- >200 pediatricians and 40 nurse practitioners
- 30-40 active studies
- 100% participation in research

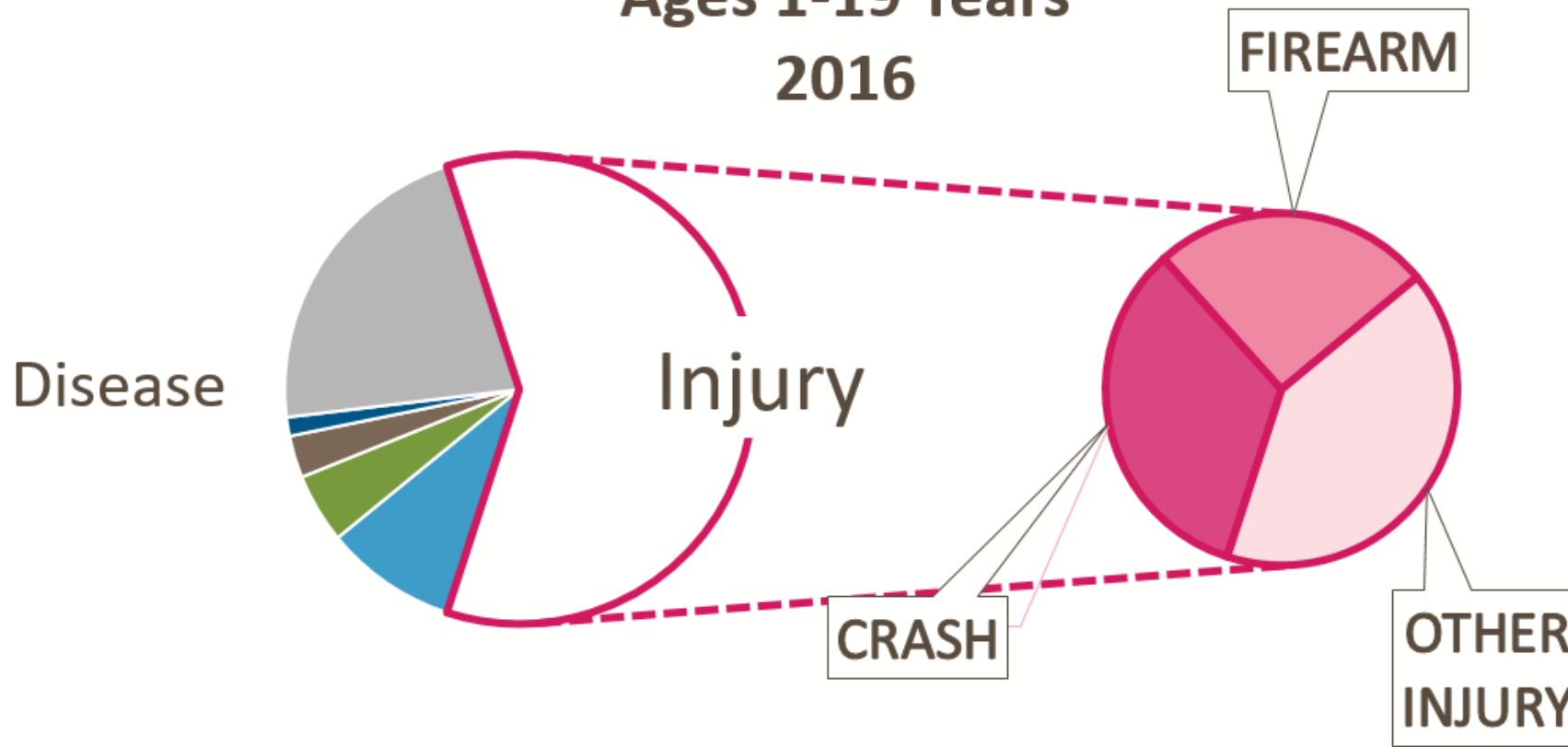
Teen Drivers:

Why crashes are a **medical problem?**

Why are teens at increased crash risk?

Why focus on Injury? A LEADING CAUSE of death for youth

**Causes of Death
Ages 1-19 Years
2016**



Adolescent deaths

Crashes account for 1 in 3



“ Conrad sped up, but it was so dark, he didn't see the pothole. Next thing I knew, we were flying through the air. ...My heart is broken and shattered.”

– 17 year-old sole survivor,
only occupant using belt

Unrecognized teen crash problem

Skill deficits

First months – highest risk 1 in 5 teens crash

75% of young novice crashes due to **human error**.²

- Largely recognition and decision errors^{2,3}
- In common crash scenarios

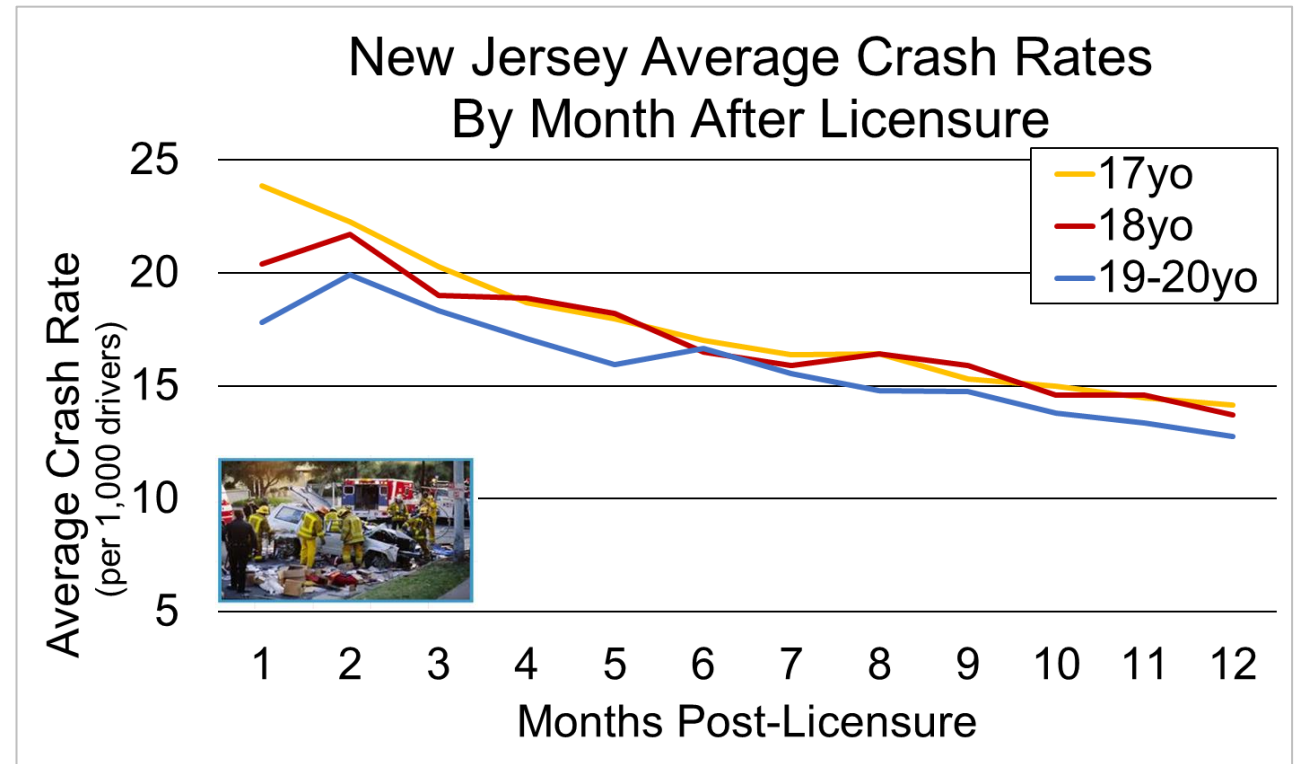


Figure 1. NJ requirements: GDL through age 20, driver education but not training. Adapted figure from data from 2006-2009. (Curry et al., 2015).¹

1. Curry et al., *Accid Anal Prev.* 2015;80:243-250. doi:10.1016/j.aap.2015.04.019
2. Curry AE, Hafetz J., et al. . *Accid Anal Prev.* 2011;43(4):1285-90.
3. Seacrist, T., et al. *Traffic Injury Prevention*, 2021, 22(sup1), S68–S73.

Challenge: Teens are LICENSED but not necessarily SAFE

Learner



Acquiring skills

Independent
Driver



Inexperienced with
skill deficits



Policy challenges teen crash prevention in PA

- Many of our patients get **no professional feedback** about their driving.
 - PA opted for 65 hours of parent practice before an intermediate license
 - **PA – no requirement for any professional driver training.**
- Driver licensing exams – **limited assessment**
 - Practicality: short drive – parking lot and local roads (little exposure to complex driving scenarios)
 - Safety: limited exposure to potential crash scenarios
 - Passing the license exam **does not mean** prepared to handle potential crash scenarios

Diversity of teens, diversity of preparation

- Teens learn to drive under various conditions
 - Access to driver education and training – driver training deserts
 - Parent availability (and ability) to teach/practice with teens
- Teens have individual differences that challenge training, increase chance for risk
 - Medical conditions
 - Executive function skills, sensation seeking, impulsivity
- Inadequate preparation can result in **deficits in safe driving skills**
 - Poor scanning, hazard anticipation and response
 - Tailgating and speeding
 - Distraction
- Impairment: **further challenges deficient driving skills**
 - Driving under influence of substances
 - Drowsy driving

Opportunity: Primary Care teachable moments

PA medical requirements that can promote safety

- PA requires **medical certification** for teenagers getting their permit
 - Learner permit application requires a health care provider to certify that the teen does not have a medical condition that would “prevent control of a motor vehicle”
 - <https://www.dmv.pa.gov/Driver-Services/Driver-Licensing/Driver-Manual/Chapter-1/Pages/Applying-for-a-Learner's-Permit.aspx>
- PA sees health care providers as **mandatory reporters**
 - Health care personnel are mandated to **id & report medically impaired drivers**
 - >27,000 new reports are submitted to PennDOT each year
 - <https://www.dmv.pa.gov/Information-Centers/Medical-Reporting/Pages/Mandatory-Reporting.aspx>

PA Learner Permit Application

Health care providers complete portion

DL-180 (1-23)

FOR OFFICIAL USE ONLY

ALL INFORMATION IN THIS SECTION MUST BE COMPLETED IN FULL BY A HEALTH CARE PROVIDER

Please check any of the following that **WOULD** prevent control of a motor vehicle.

Neurological disorders
 Neuropsychiatric disorders
 Circulatory disorder
 Cardiac disorder
 Hypertension
 Uncontrolled Epilepsy
 Uncontrolled Diabetes
 Cognitive Impairment
 Alcohol abuse
 Drug abuse
 Conditions causing repeated lapses of consciousness (e.g. epilepsy, narcolepsy, hysteria, etc.)

Specify: _____ If seizure disorder, date of last seizure: _____

Impairment or Amputation of an appendage. If so, list: _____
 Other: _____

NOTE: Any recommendations/additional comments must accompany this certificate on a health care provider's letterhead.

PROVIDER INFORMATION (Please print or type) CHECK ONE: M.D. D.O. C.R.N.P. P.A. D.C.

PROVIDER'S NAME	SPECIALTY	STATE LICENSE #	
STREET ADDRESS	CITY	STATE	ZIP CODE
TELEPHONE	FAX		

I hereby state that the facts above set forth are true and correct to the best of my knowledge, information and belief. I understand that the statements made herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities) punishable by a fine up to \$2,500 and/or imprisonment up to 1 year.

Examinee's Signature (SIGN ONLY IN PRESENCE OF PROVIDER) _____ Provider's Signature _____ Physical Date _____

VISION SCREENING	CHECK (✓) YES NO	COMPLETE ALL ITEMS			
Combined vision is 20/40 or better.....	<input type="checkbox"/> <input type="checkbox"/>	Uncorrected		Corrected	
Report of Eye Examination (attached).....	<input type="checkbox"/> <input type="checkbox"/>	20/	Right Eye	20/	
<input type="checkbox"/> Qualified Without Restrictions		20/	Left Eye	20/	
<input type="checkbox"/> Qualified With Restrictions		20/	Both Eyes	20/	
<input type="checkbox"/> Corrective Lenses <input type="checkbox"/> Other: _____		R	L	Fields	R L

- PA providers already id individuals with challenges
- Form completion provides a **teachable moment to id under-prepared drivers**
- **Note:** most can learn to drive <https://injury.research.chop.edu/research/teen-driving-safety/driving-neurodevelopmental-differences>



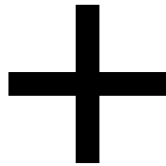
Could **primary care** be a place where we can proactively provide guidance on driver safety **BEFORE** teens get their license and crash?

Collaboration

MADE POSSIBLE BY
NJM Insurance
Group

 **Children's Hospital
of Philadelphia**
Center for Injury Research & Prevention

Teen driver safety expertise



 **Children's Hospital
of Philadelphia**
Possibilities Project

Innovation in Primary Care





**Comprehensive teen driver safety
initiative in primary care**

Comprehensive Teen Driving Initiative

Integrating Teen Driving into the Well Visit

Adolescent
Health
Questionnaire

PA Medical
Permit Form

Virtual Driving
Assessment

Adolescent Health Questionnaire Domains

1. Strengths
2. Nutrition and Activity
3. School
4. Family and Friends
5. Weapons/Violence/Safety
6. Tobacco
7. Alcohol and Substance use
8. Adolescent Development/Sexual Health

We used a staged implementation strategy

2020 -> 3 practices using AHQ

2021 -> 29 practices using AHQ

2022 -> all 31 practices using AHQ

2023 -> iterate & build clinical decision support

Adolescent Health Questionnaire (AHQ)


Do you have a valid and current driver's license which allows you to drive without supervision?

- Yes
- No: I have a junior/intermediate license
- No: I have a permit
- **No: I have no license or permit**
- No: My license was suspended

If no license or permit; Do you intend to start the driving process in the next 12 months?
Yes*|No

Completion of Medical Certification on Learner Application – A Teachable Moment

DL-180 (1-23)



NON-COMMERCIAL LEARNER'S PERMIT APPLICATION **YOU MUST APPLY IN PERSON**

THIS FORM IS VALID FOR 1 YEAR FROM THE DATE OF PHYSICAL EXAMINATION. The physical date may not be more than 6 months prior to your 16th birthday. DRIVER'S LICENSE NUMBER/I.D. NUMBER: _____

LAST NAME (S)										JR, ETC		
FIRST NAME					MIDDLE NAME							
DATE OF BIRTH			HEIGHT		SOCIAL SECURITY NUMBER			TELEPHONE NUMBER (8:00 A.M. - 4:30 P.M.)		EMAIL ADDRESS		
MONTH	DAY	YEAR	FEET	INCHES								
EYE COLOR (Please check one): <input type="checkbox"/> BLUE <input type="checkbox"/> BROWN <input type="checkbox"/> GREEN <input type="checkbox"/> HAZEL <input type="checkbox"/> PINK <input type="checkbox"/> BLACK <input type="checkbox"/> GRAY <input type="checkbox"/> DICHROMATIC <input type="checkbox"/> OTHER												
SEX/GENDER DESIGNATION STATEMENT												
I, _____ with the gender designation on my Driver's License/ID Card to read: <input type="checkbox"/> Male (M) <input type="checkbox"/> Female (F) <input type="checkbox"/> Non-Binary/Other (X)												
I hereby certify under penalty of law that this request for the selected gender designation to appear on my Driver's License/ID Card accurately reflects my gender identity and is not for any fraudulent or other unlawful purpose.												
STREET ADDRESS - A Post Office Box number may be used only in addition to the actual street address.						CITY		STATE		ZIP CODE		
PERMIT(S) DESIRED: CHECK DESIRED PERMIT(S)										FEE		ENTER FEE FOR EACH ITEM CHECKED
<input type="checkbox"/> CLASS A (Combination Vehicle over 26,000), <input type="checkbox"/> CLASS B (Truck or Bus over 26,000) OR <input type="checkbox"/> CLASS C (Automobile)										\$5.00		
<input type="checkbox"/> CLASS M (Motorcycle) MSEA Fee is included										\$15.00		
LICENSE REQUIRED: MUST CHECK ONE										FEE		ENTER FEE FOR LICENSE CHECKED
<input type="checkbox"/> 4-Year Driver's License										\$36.50		
<input type="checkbox"/> 2-Year Driver's License (Age 65 & Over)										\$26.00		
Trust Fund Contribution(s) - If you wish to contribute to the Organ Donation Awareness Trust Fund (ODTF) and/or the Veterans' Trust Fund (VTF) check the appropriate box(es) and enter total amount to the right. (see reverse)												ENTER FEE FOR CONTRIBUTIONS HERE
<input type="checkbox"/> \$3.00 to the Organ Donation Trust Fund (ODTF) <input type="checkbox"/> \$5.00 to the Veterans' Trust Fund (VTF)												
PAID BY: <input type="checkbox"/> Debit/Credit Card <input type="checkbox"/> Check <input type="checkbox"/> Money Order Payable to PennDOT (PennDOT Driver License Centers do not accept cash.)								TOTAL		\$		

ALL QUESTIONS MUST BE ANSWERED (Check [-] Applicable Block) YES NO

- Have you ever held or possessed a Driver's License (DL)/Learner's Permit (LP)/Photo Identification Card (ID) from PA or any other state?..... YES NO
 If yes, State: _____ DL/LP/ID #: _____ Name if different than above: _____
 State: _____ DL/LP/ID #: _____ Name if different than above: _____
 State: _____ DL/LP/ID #: _____ Name if different than above: _____
- Is your right to apply for a license or your privilege to operate a vehicle in this or any other state currently suspended, revoked, or subject to installation of an ignition interlock device?..... YES NO
 If yes, give state _____ date _____ and reason _____
- Do you have any pending criminal charges or driving violations in this state or any other state which may carry a possible penalty of suspension or revocation of your driver's license or driving privilege?..... YES NO
 If yes, give state _____ date _____ and reason _____
- Do you hold a valid license or ID card from any other state?..... YES NO

- Permit forms must be completed in person
- Permit forms are completed at well visits, sick visits, and permit signing visits
- Utilization of visit type for permit forms is variable across our network and forms are completed on paper, making it difficult to track in the EHR
- Pre-virtual driving assessment, some offices provided driving information packet to families during permit visit but **many did not provide info packet to families**

WHY A VIRTUAL DRIVING ASSESSMENT?



SELF-GUIDED VIRTUAL DRIVING TEST BY DIAGNOSTIC DRIVING, INC.

SIMPLE WORKSTATION SET-UP

Ready-Assess™ runs on common and inexpensive hardware that you may already have.



1 STANDARD MONITOR 2 STANDARD COMPUTER 3 INEXPENSIVE USB STEERING WHEEL AND PEDALS



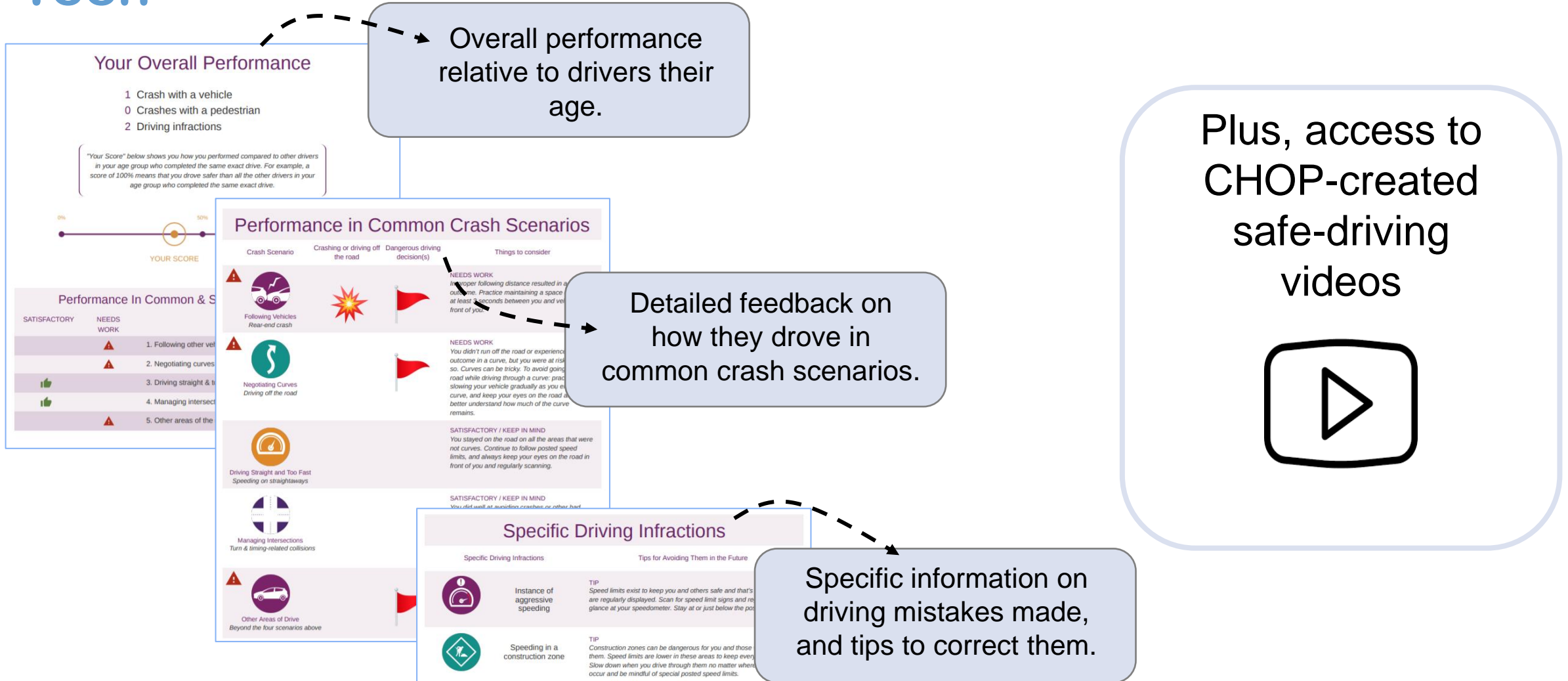
www.diagnosticdriving.com | info@diagnosticdriving.com

VIRTUAL DRIVING ASSESSMENT

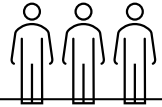
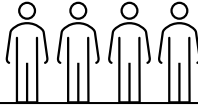
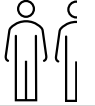
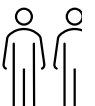
- Safely assesses driving performance in most common serious crash scenarios
 - Not possible during licensing exam
- Software identifies unsafe drivers and areas for improvement
- 15 minutes to complete
- Easy to use, self-directed software
- **Personalized** feedback guides drivers on how to improve their driving skills
- Software provided by CHOP spin-out, Diagnostic Driving, Inc.
 - Decades of CHOP research



A Personalized Feedback Report Generated for Every Teen



Results: VDA predictive of road test, crash risk

VDA Driving Class	Distribution	Odds of FAILED Road Test ¹	1 st year of license CRASH Hazard ²
No Issues		↓29%	Less likely
Minor Issues		↓11%	AVERAGE
Major Issues		↑34%	AVERAGE
Major Issues & Dangerous Behavior		↑19%;	More likely

1. Walshe, E.A., et al., *Transportation Research Part F*, 2022.
 2. Walshe, EA, et al., *under review*, 2023.

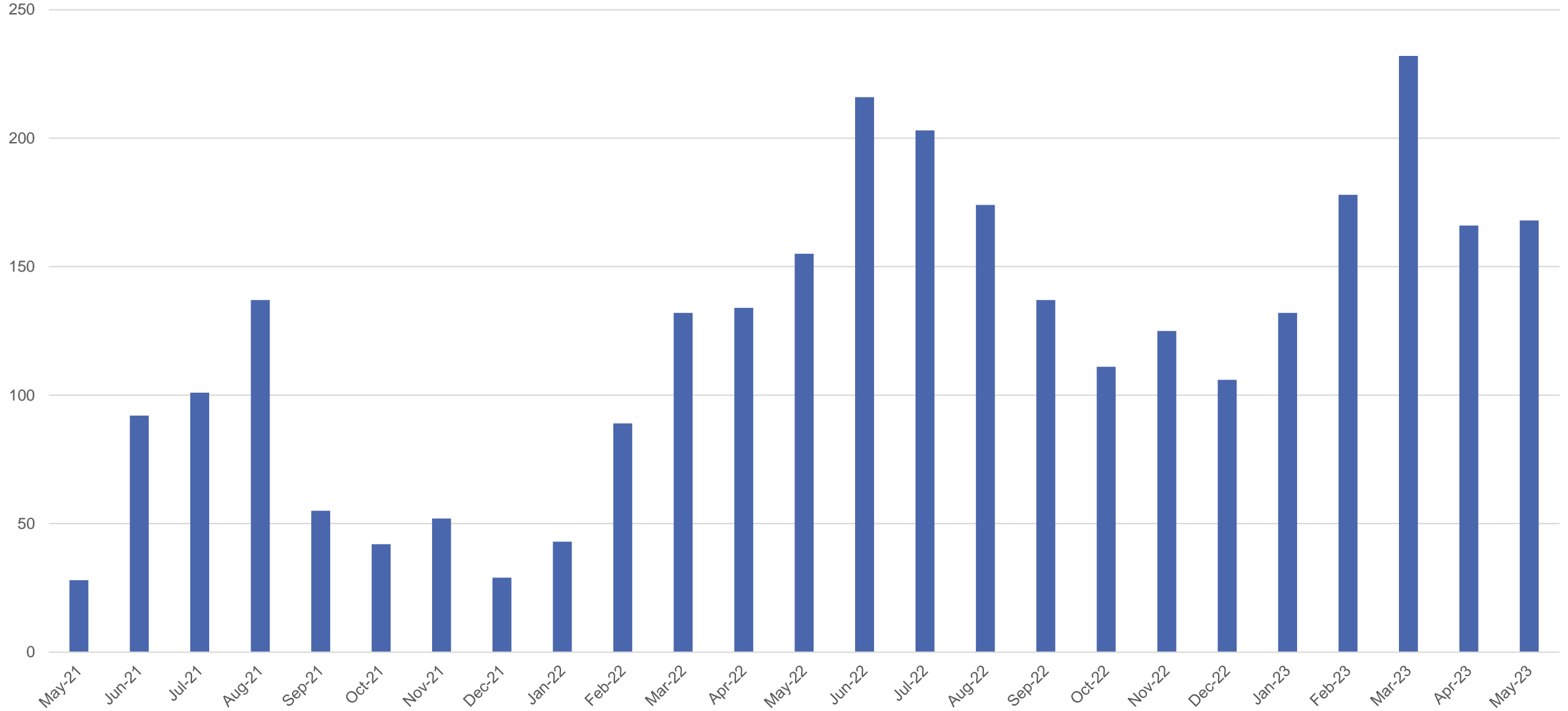
Assessment limitations

- Not a comprehensive driving evaluation
 - May indicate need to go to a Driving Rehabilitation Specialist
- Not a training simulator
 - Assessment and feedback only
- Not a clinical test
 - Continue to rely on your clinical knowledge for the PA requirements
 - VDA is an educational tool

[My son] now has the confidence, even after failing the simulator, to know he will one day be a driver and have an independence we thought unreachable. We will come back and re-test as he builds his skills and knowledge to confirm he has learned all the critical elements necessary to ensure his safety but more importantly to ensure the safety of others on the road.

Flourtown parent, August 2020

Number of Completed VDAs Per Month

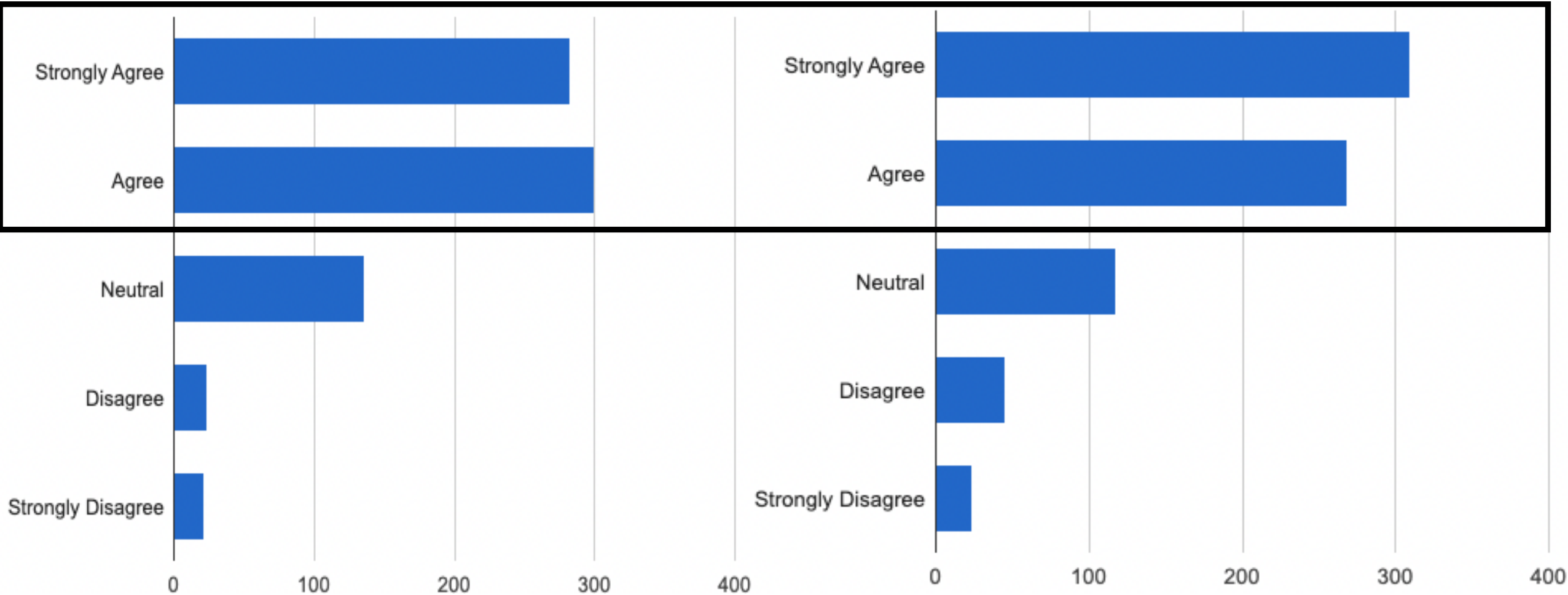


Over 3,300 assessments completed as of May 31, 2023

TEEN FEEDBACK

**I would recommend the virtual driving assessment to my friends
(N=764)**

**I would take the virtual driving assessment again if given the opportunity
(N=763)**



Teen Feedback

“The driving test was the first time I went "behind the wheel" other than trying to learn from observing my parents I've never learned ANYTHING about driving. This simulation gave me a chance to finally know what's it's like behind the wheel.”

-West Grove

“I would do this again to work on my weaknesses, like controlling my speed.”

- West Chester

“It is really eye opening to see all the factors that go into driving.”

-Moorestown

Additional Driving Resources



Welcome to the *TeenDrivingPlan Practice Guide* and congratulations on being serious about supervising your teen's practice driving. You are preparing your teen for an exciting and dangerous milestone – driving. High quality practice driving is critical because a major reason why teens crash is their inexperience behind-the-wheel. Research shows that drivers need a variety of practice in a wide range of [driving environments](#) to prevent them from committing dangerous driving errors. However, many teens do not get this kind of practice. To address this problem we developed the [TeenDrivingPlan \(TDP\)](#), to help parents effectively supervise their teens' driving practice.

A randomized-controlled trial found that teens with families that followed the TDP program were **65% less likely** to make dangerous driving errors. These families also increased their variety of practice to boost driving performance.

The *TeenDrivingPlan Practice Guide* includes information and tools from the TDP program to help families make the most out of their practice time together:

VIDEOS

The [videos](#) help parents learn to be better supervisors. Parents learn about [creating the right learning environment](#), specific practice activities, common errors, and signs teens are starting to get the hang of it. (You can watch the videos even before your teenager has his or her permit.) Access the videos by clicking on their images in this document or by visiting the [TeenDrivingPlan Channel](#) on YouTube.



GOAL GUIDE

The [Goal Guide](#) will help remind you of your goals for each drive. A portion of the practice drives should be focused on learning a specific goal or goals. We recommend no more than three goals per driving session. You can print the Goal Guide to keep in your car or download it to an electronic device.



LOGGING AND RATING TOOL

Thinking about driving?

CONGENITAL HEART DISEASE & DRIVING

Patient and Family Information



WHAT IS CONGENITAL HEART DISEASE?

Congenital heart disease – or CHD – is the most common birth defect that affects the heart's structural integrity. CHD is often diagnosed in infants but can also be diagnosed before birth or as late as adulthood.

Environmental and genetic factors are linked to CHD, although the causes of most cases are unknown. Your CHD symptoms are dependent on four primary factors:

1. The type and severity of your heart defect
2. Any past corrective procedures you may have undergone
3. Medications you have taken or may still be taking
4. Your current medical treatments

WHY IS IT IMPORTANT TO THINK ABOUT DRIVING AND YOUR CHD?

Learning how to drive is an important milestone for many teens and young adults. All new drivers need to know how their health conditions may affect their ability to drive safely. The effects of CHD on your everyday activities may transfer over to your driving abilities. Being aware of this can help increase your safety behind the wheel.

For more: <https://www.teendriversource.org/>



RESEARCH IN ACTION

 TDP PRACTICE GUIDE

 PICK YOUR PRACTICE

 MINIMUM GDL PROVISIONS

 TEEN CRASH FACTS

 READY TO DRIVE ALONE?

 FAQs

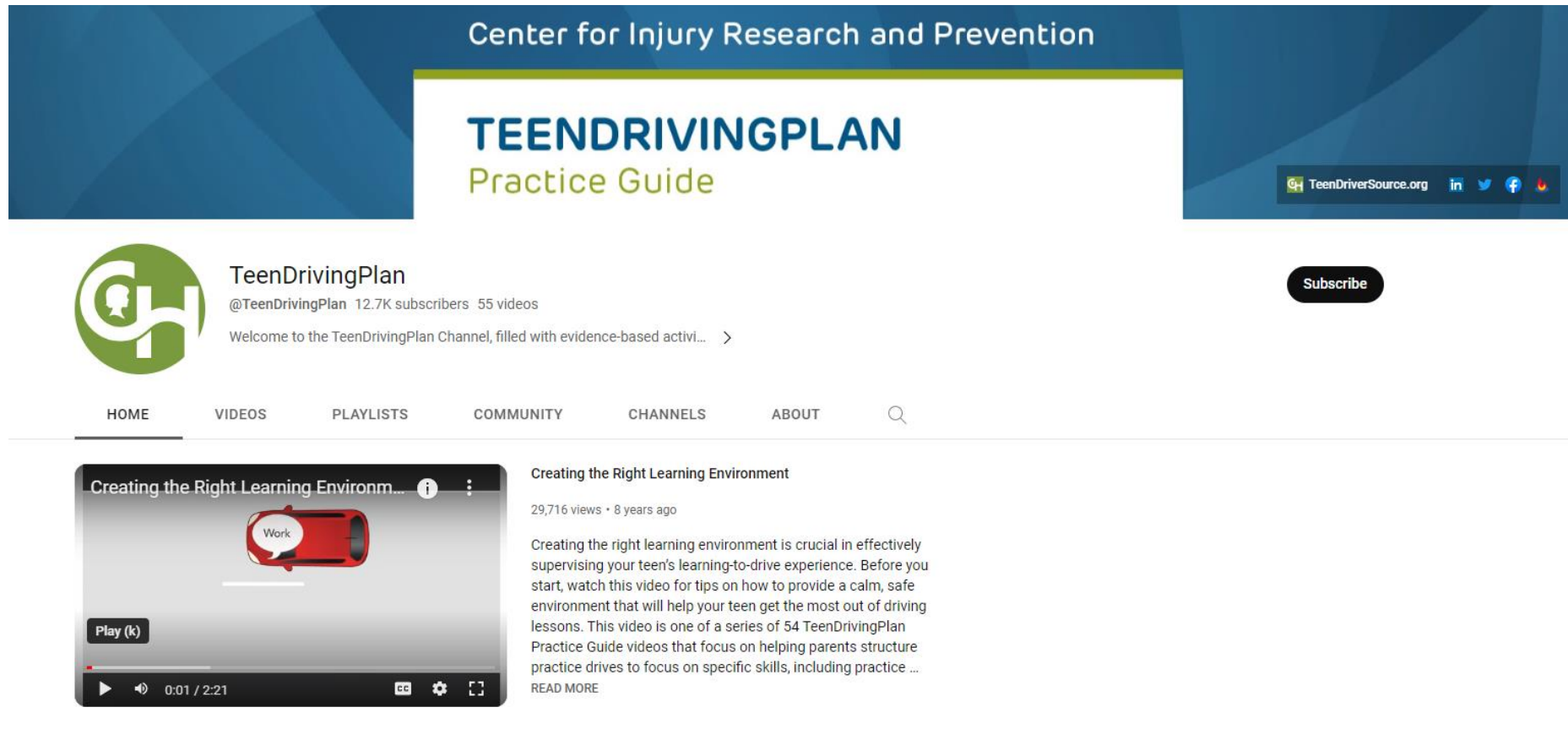
TEEN DRIVER SOURCE

For more: <https://www.teendriversource.org/>

We can all help improve teen driver safety. This site supports families with free teen driver safety information and downloadable resources. The Teen Driver Safety Research team at Children's Hospital of Philadelphia is proud to partner with teens, parents and organizations that work to prepare teens for a lifetime of safe driving. Please explore this site, use its research-based tools, and share its resources with others.

Teen Driver Source videos

<https://www.youtube.com/channel/UCPGevUmqpEaeYoXhkN4OL9g>



Center for Injury Research and Prevention

TEENDRIVINGPLAN

Practice Guide

TeenDriverSource.org

TeenDrivingPlan
@TeenDrivingPlan 12.7K subscribers 55 videos

Welcome to the TeenDrivingPlan Channel, filled with evidence-based activi... >

HOME VIDEOS PLAYLISTS COMMUNITY CHANNELS ABOUT

Creating the Right Learning Environment

29,716 views · 8 years ago

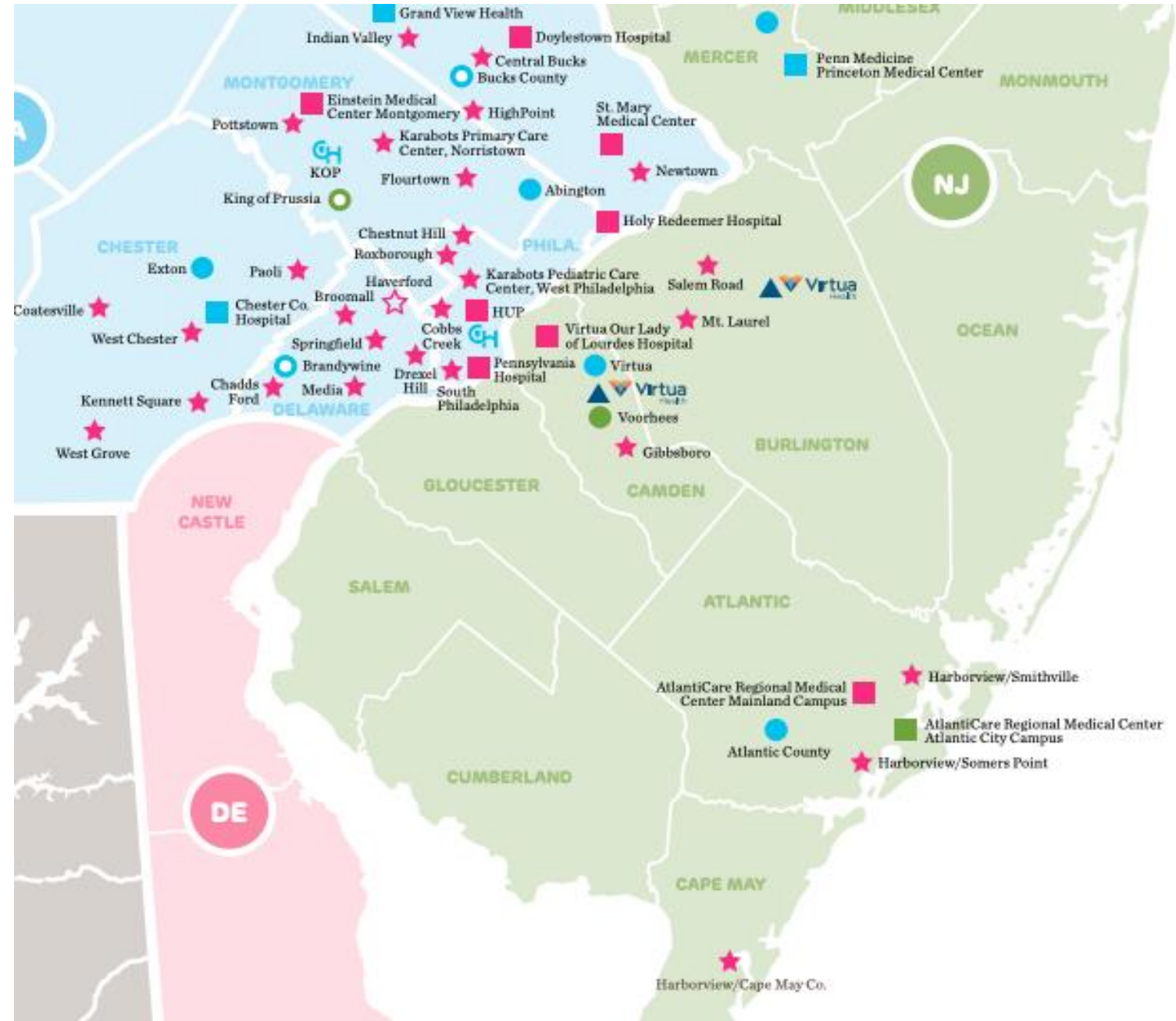
Creating the right learning environment is crucial in effectively supervising your teen's learning-to-drive experience. Before you start, watch this video for tips on how to provide a calm, safe environment that will help your teen get the most out of driving lessons. This video is one of a series of 54 TeenDrivingPlan Practice Guide videos that focus on helping parents structure practice drives to focus on specific skills, including practice ...

READ MORE

Implementation of Virtual Driving Assessment

21 Primary Care Practices

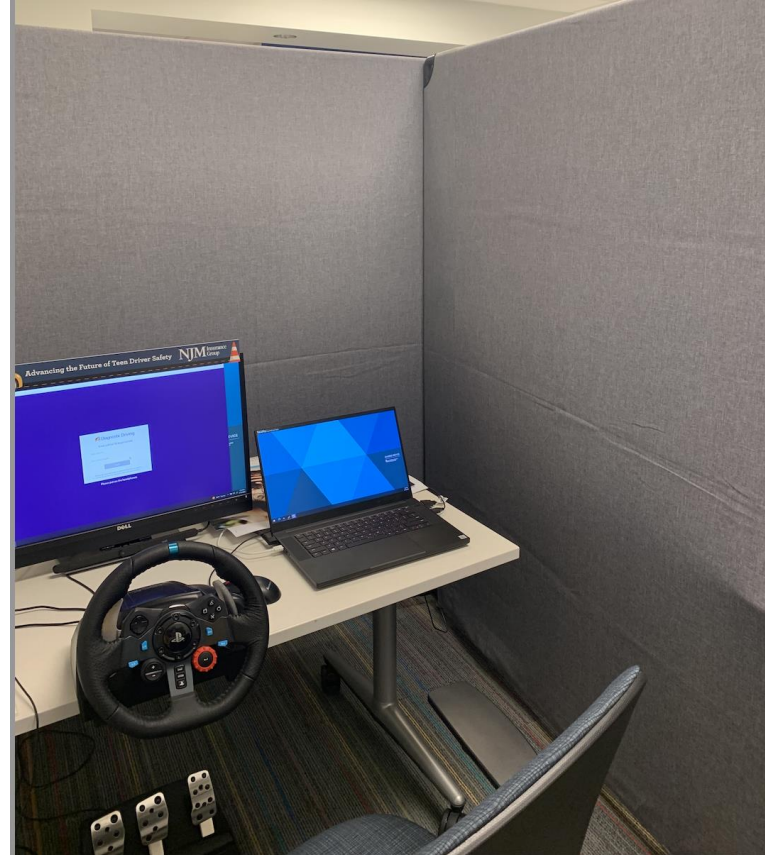
Over 3,300 assessments completed



Key Stakeholders

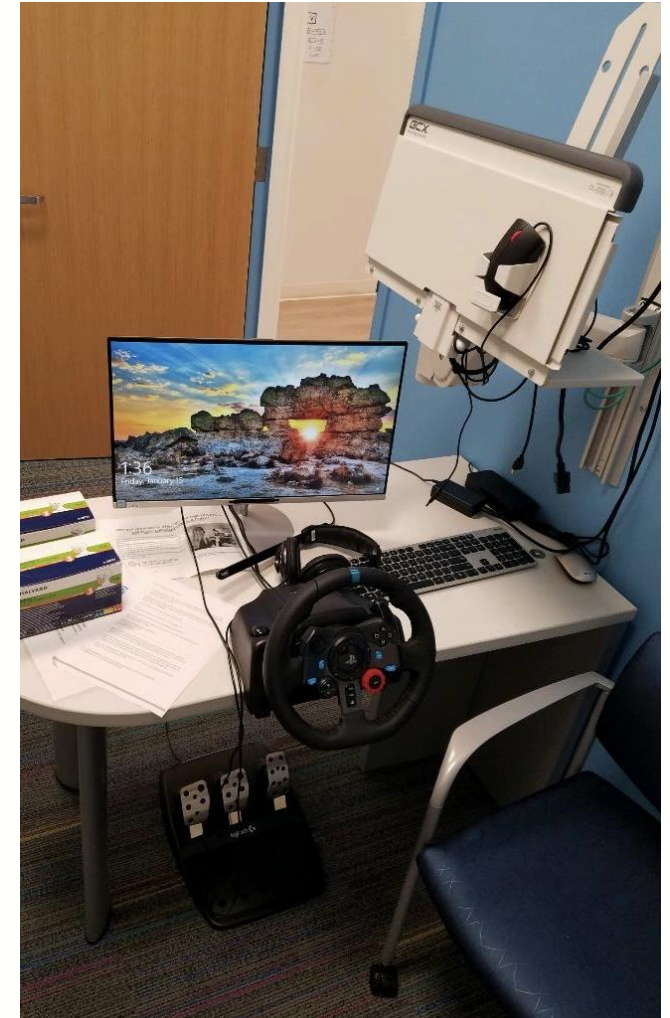
- Practice Clinical Champion (MA, RN, NP, MD etc.)
- Practice Staff including: Patient Service Representatives (PSRs), providers and other clinical staff
- Office Manager
- Implementation Lead
- Patients and Families

Space Requirements



Equipment

- Computer/Laptop with Windows 10 version 15063.0 or higher X64
- Computer monitor
- Mouse
- Keyboard
- Steering wheel and pedals (Logitech G29)
- Standard over-ear headphones
- Eye tracker (Tobii Eye Tracker 5)
- Table
- Chair without wheels
- Wired internet connection



Key Materials: Job Aid for Staff

Job Aid: Virtual Driving Assessment (*updated 4/4/2022*)

Daily Procedures Overview:

1. Start each workstation (e.g., from sleep mode) at the beginning of the day
2. Make sure steering wheel calibrates (e.g., power lights are on and wheel spins)
3. Ensure each workstation is connected to the Internet
4. Ensure the monitor is perpendicular to table and steering wheel
5. Set software to 'Ready-Mode'
6. Run a test drive to ensure that all inputs are working properly
7. Follow any workstation sanitation procedures provided by CHOP
8. Shut down workstation at the end of the day (e.g. turn fully off or restart)

Setting Up the Equipment

1. Start the computer associated with the Virtual Driving Assessment
2. Check that pedals and steering wheel are connected to a power source and the PC
3. Make sure steering wheel calibrates (e.g., power lights are on and wheel spins)
4. Ensure the monitor is perpendicular to table and steering wheel
5. Make sure the computer is connected to the internet by testing a webpage such as <https://www.chop.edu/>

Key Materials: Informational Sheet



15 Minutes Could Save You From a Fender Bender!

- Free, 15-minute ***simulated driving assessment*** for teens who intend to drive or are already driving
- Experience on-road driving scenarios using our virtual driving simulator
- Receive personalized feedback and tips to improve your driving skills



Please ask a member of our staff to escort you to our simulator

Short on time? Ask our front desk to schedule a time for you to come back to take the assessment

GET STARTED HERE:

1) Scan the QR code below to start the **Pre-Drive Survey** and follow the directions on your device.


(Complete the survey in the exam room or waiting room, before starting your assessment):



2) Complete your driving assessment on the computer simulator*

*To get your results, be sure to **enter your email address** and the email address of a parent/guardian into the final screen on the computer after your drive is complete

Key Materials: Flyers and Brochures



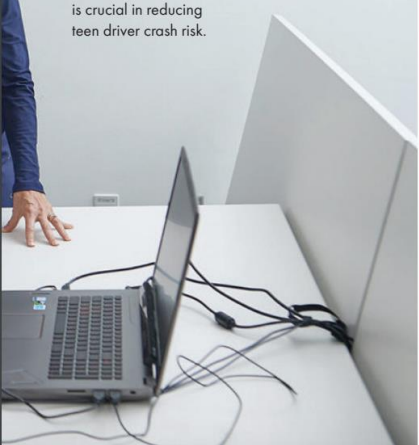

Children's Hospital of Philadelphia®

Together, CHOP and NJM share a vision to improve teen driver safety on our roads by providing families with resources to cultivate safe driving skills.

CHOP's Virtual Driving Skills Assessment simulates the most common and serious crash scenarios based on predictive modeling. It proactively identifies drivers at risk and their skill deficits, based on their reactions and decision-making skills.

The assessment provides a summary of teen drivers' strengths and weaknesses. It is then shared with parents, along with guidance on how to improve any deficits.

The program is grounded in over a decade of young driver research which found high-quality, parent-supervised driving practice is crucial in reducing teen driver crash risk.

NJM'S
SHARE THE KEYS

STK | Share the Keys


Share the Keys (STK) is a teen driver safety orientation for parents and their teen drivers that's proven to reduce teen driver crash risk by increasing parental involvement.

STK was developed using CHOP's research which found that teens whose parents set rules and pay attention to their driving activities in a helpful, supportive way are half as likely to be involved in a crash.

These key findings were used to define the objectives for Share the Keys:

- Understanding Graduated Driver Licensing (GDL) Laws
- Effectively Supporting the GDL at Home
- Being a Good Role Model
- Increasing Practice Driving Hours
- Controlling the Keys

Visit www.SharetheKeys.com, for more information about the **Share the Keys** program.



Children's Hospital of Philadelphia®


STK-32PA (02/21)



ACCELERATING
TEEN DRIVER SAFETY




NJM Insurance Group



NJM Insurance Group

NJM, a leading property casualty insurer and safety advocate in the Mid-Atlantic region, is partnering with Children's Hospital of Philadelphia (CHOP), one of the top-ranked pediatric hospitals in the country, to better prepare teenagers to drive safely. Through an NJM grant, CHOP Primary Care locations are offering a state-of-the-art virtual driving assessment system that presents teens with common and serious crash scenarios to measure their crash-avoidance skills.



Key Materials: VDA Webpage

Virtual Driving Assessment: Preparing Teens to Drive Safely

Published on Aug 26, 2021



In partnership with NJM Insurance Group, Children's Hospital of Philadelphia (CHOP) Primary Care is proud to offer simulated driving assessments for current CHOP Primary Care teen patients at select CHOP Primary Care locations.



This innovative assessment is powered by Ready-Assess™, a software that gauges a teen's ability to drive safely and avoid crashes. [Watch a video to learn more about this work to advance teen driver safety.](#)

How it works

Teens who take the assessment will use a monitor, steering wheel and pedals to encounter a variety of on-road scenarios in a virtual setting, including situations most commonly associated with young driver crashes, such as following other vehicles, navigating curves, driving within

Key Materials: Posters



**ATTENTION
NEW DRIVERS!**

Take our virtual driving assessment. Get valuable feedback.

Want to know more? Give this a scan!

MADE POSSIBLE BY
NJM Insurance Group

CH Children's Hospital of Philadelphia



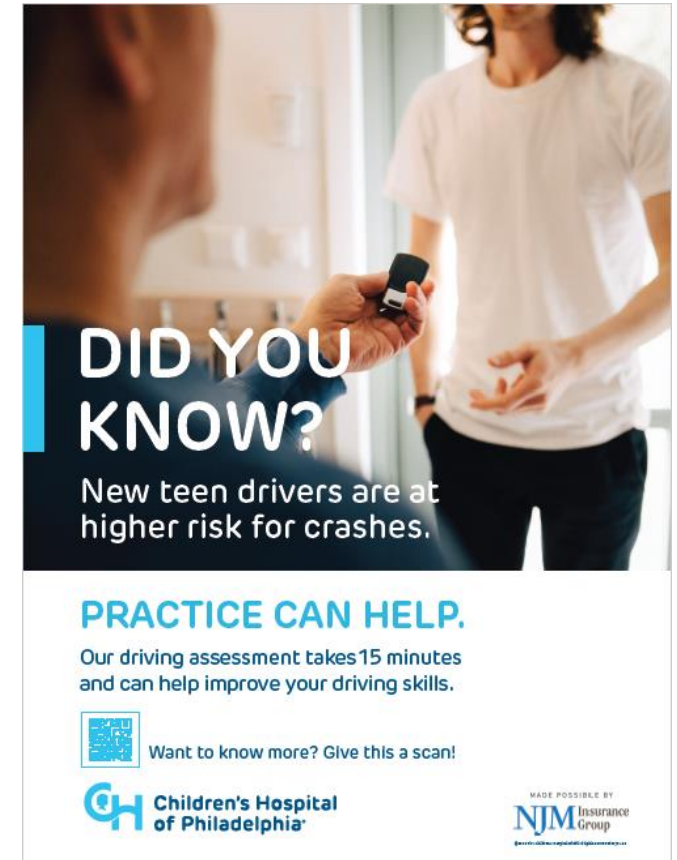
**HOP IN
THE DRIVER'S SEAT!**

Take our virtual driving assessment to get valuable, personalized feedback that you can take on the road.

Want to know more? Give this a scan!

MADE POSSIBLE BY
NJM Insurance Group

CH Children's Hospital of Philadelphia



DID YOU KNOW?

New teen drivers are at higher risk for crashes.

PRACTICE CAN HELP.

Our driving assessment takes 15 minutes and can help improve your driving skills.

Want to know more? Give this a scan!

MADE POSSIBLE BY
NJM Insurance Group

CH Children's Hospital of Philadelphia

Additional Support

- Text reminders for families
- Visit type in EHR

Fri, Jun 3, 2:56 PM

CHOP Flourtown: Did you know we are now offering a 15-minute virtual driving assessment during your teen's well visit? Your teen gets personalized feedback with tips to stay safe on the road.

Click here for more information <https://www.chop.edu/health-resources/virtual-driving-assessment-preparing-teens-drive-safely>. The assessment will be included as part of Tom's well visit on 1/3/21 at 8:00 AM. STOP to end msgs.

Additional Support

- Reminder text about feedback report
- Clinical Champion monthly meetings

Beep Beep! Check your email for the results of your CHOP Virtual Driving Assessment. If you did not receive your feedback report, please call or text (267) 422-4887

Beep Beep! The results of your teen's CHOP Virtual Driving Assessment have been sent to their email address. If they did not receive their feedback report, please call or text (267) 422-4887

Summary of Time and Effort

- Additional 15 minutes of time for patients and families
- 2 hours of training time for staff
- Workflow changes to offer the VDA as part of routine care
- 1 hour per month for clinical champion meetings

Research

VDA data collection can support research

1. Understand our patients

1. **Question:** VDA performance by our patients
2. **Finding:** Large representation in Major Issues with Dangerous Behavior.
3. **Impact:** VDA can identify at-risk teens BEFORE they crash and early in the process, allowing us to intervene.

2. Inform policy

1. **Question:** Are more practice hours associated with better skills?
2. **Finding:** More practice hours, less drivers in the Major Issues group
3. **Impact:** One of first studies to be able to quantify the benefits of practice driving in preparing teens for safe driving

Conclusions and Next Steps

Let's make PA the safest state for teen drivers

- Teachable moments
 - PA required - Medical Certification, Mandatory Reporting
 - After citations, crashes
- Focus on teens at risk
 - **All** novice drivers – focus on skills, GDL
 - Identify and address teens with challenges
 - Neurodivergent
 - Medically complex
 - At-risk for impaired driving

Available resources (free!)

- PA learner permit
 - <https://www.dmv.pa.gov/Driver-Services/Driver-Licensing/Driver-Manual/Chapter-1/Pages/Applying-for-a-Learner's-Permit.aspx>
- PA Mandatory Reporting
 - <https://www.dmv.pa.gov/Information-Centers/Medical-Reporting/Pages/Mandatory-Reporting.aspx>
- Evidence-based teen driver resources
 - <https://teendriversource.org>
- Evidence-based videos to guide practice driving
 - <https://www.youtube.com/channel/UCPGevUmqpEaeYoXhkN4OL9g>

Want more information on Primary Care practice transformation for young drivers?

- For more information on getting started with innovating in Primary Care regarding teen driving, contact Maura Powell, powellma@chop.edu
- Want a Virtual Driving Assessment demo?



Questions?

This webinar has been approved for 1 CEU/CME through the University of Pittsburgh

**Please take the survey that immediately pops up after the
webinar.**

- **Indicate you would like CME/CEU on the survey.**
- **Your name and email address will then be added to the
sign-in sheet.**
- **Proof attendance will be emailed from Zoom. Please click
the link in the email for CME/CEU credit.**

Link: <https://cce.upmc.com/content/pa-aap-lets-talk-series-innovative-strategies-support-new-teen-drivers-through-primary-care> (access in 14 business days)

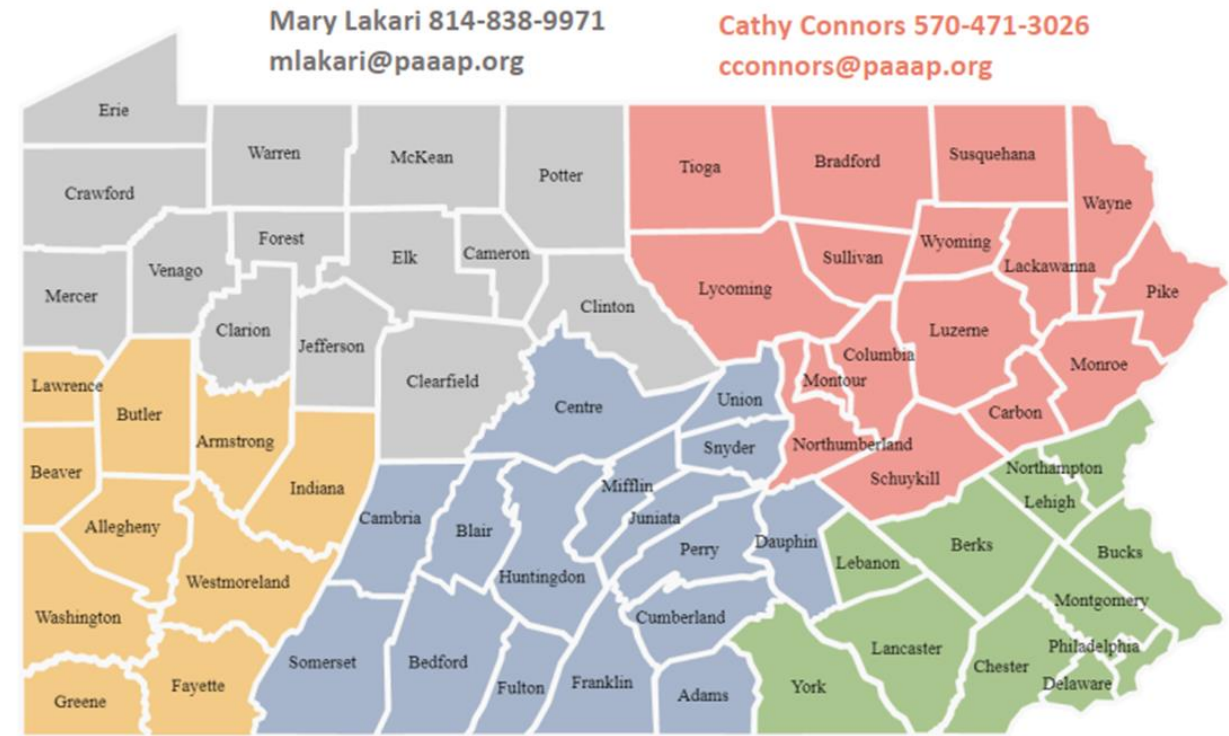
Thank you for attending

**“Innovative Strategies to Support
New Teen Drivers Through Primary
Care”**

**This activity is approved for the following credit: ANCC and AMA PRA Category 1
Credit™. Other health care professionals will receive a certificate of attendance
confirming the number of contact hours commensurate with the extent of
participation in this activity.**



PA Traffic Injury Prevention Project Regional Training Coordinators



Mary Lakari 814-838-9971
mlakari@paaap.org

Cathy Connors 570-471-3026
cconnors@paaap.org

Kristen Urso 412-885-0266
kurso@paaap.org

Kelly Whitaker 814-943-3360
kwhitaker@paaap.org

Teresa Rychlak 484-446-3078
trychlak@paaap.org