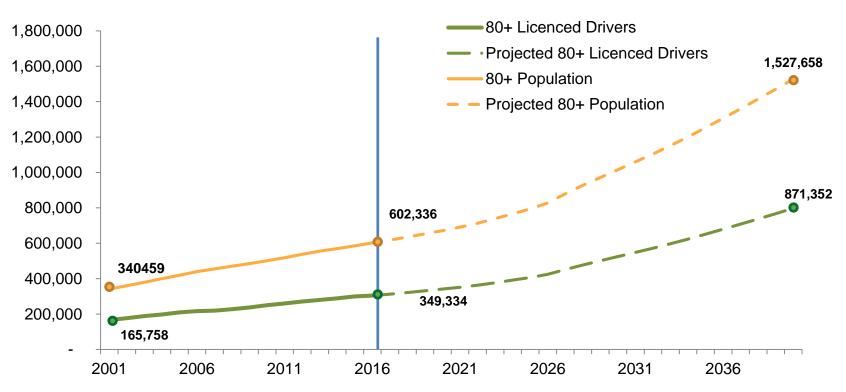


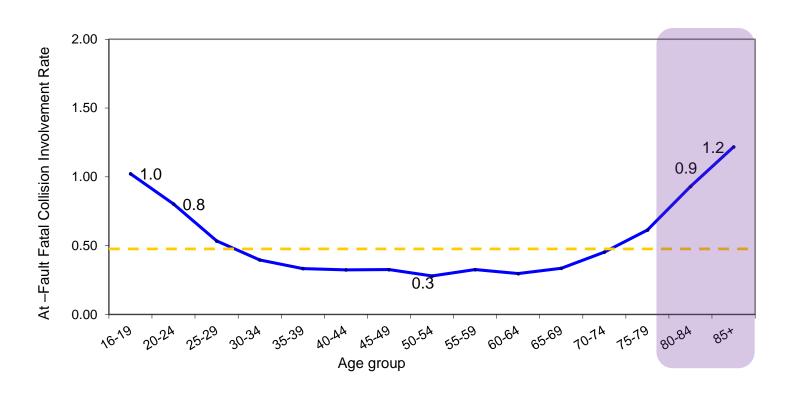
Outline

- Ontario's Senior Drivers
- Senior Driver's Licence Renewal Program
- Descriptive Statistics
- O4 Some Evaluation Results
- 05 Conclusions

Ontario's Senior Drivers: The 80+ Population



80+ Collision Involvement



Current SDRP Process: Introduction of In-Class Screening Component

Clock Drawing Test



3-7 points = good 1-2 points = moderate 0 points = poor

Letter Cancellation Test (H)

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BDAHCFBHDEHDAFHICHFH 0-5 omissions = good
DHCEHIHGDHGEBHEGHIHC 6-10 = moderate
CGDHCBAHGDEHCHBEHDGH 11+ = poor
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H C D H F H C D H B H D H F A C H C H F E B H G F B H F A H E B G H G F E H D B G E H G H D E H C G H D H E B A H F B H

Current SDRP Process: Program Pathway



1. 80+ Attend GES



2. Presentation



3. In Class Screening

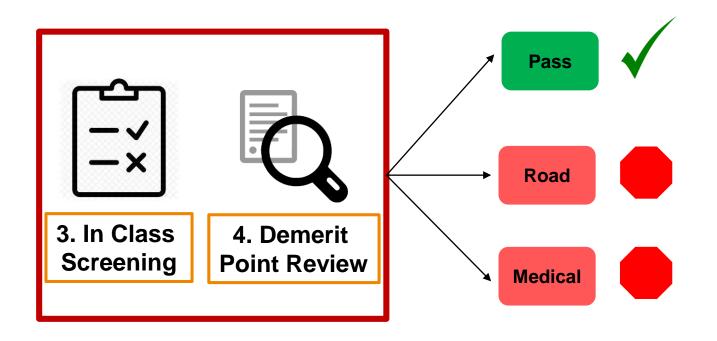


4. Demerit Point Review

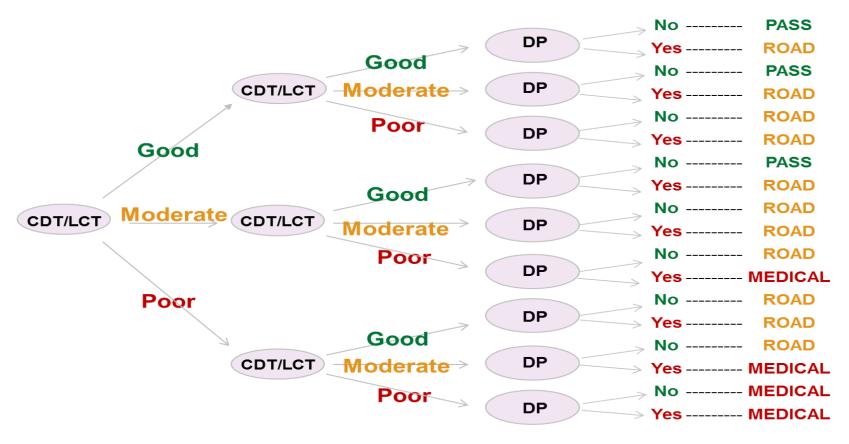


5. Vision Test

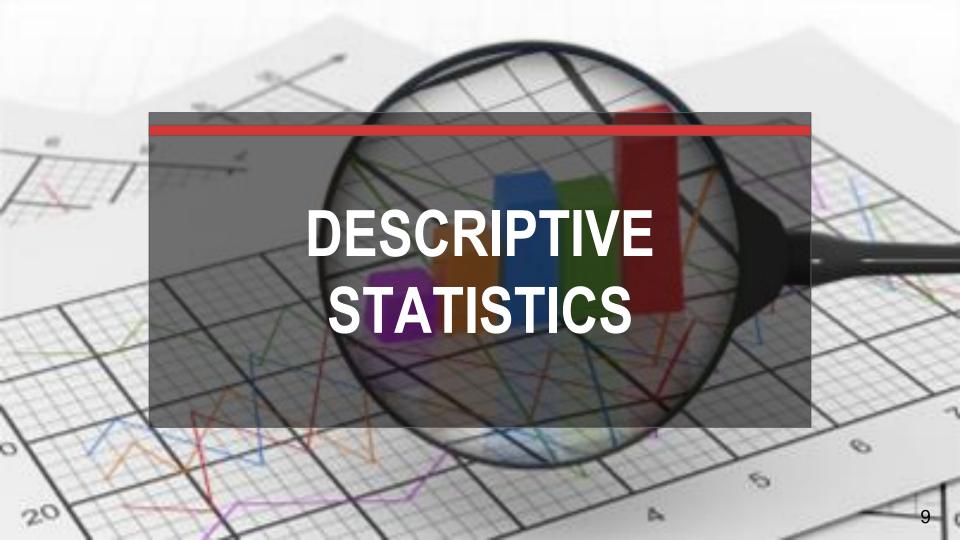
Current SDRP Process: Program Pathway



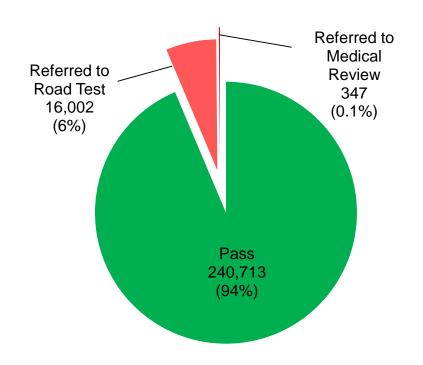
Current SDRP Process: GES Decision Tree



DP: Demerit Points



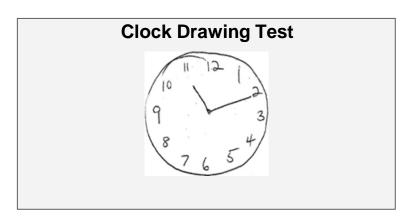
Descriptive Statistics: Decision Tree Outcomes

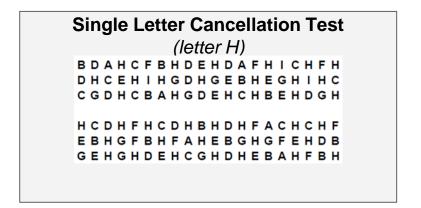


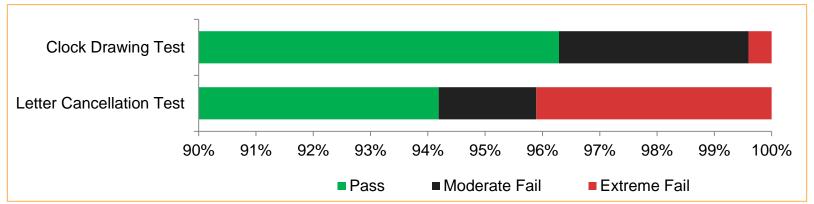
Those that "pass" the GES are assumed to be at lower risk and are eligible for immediate licence renewal.

Study Period: April 2014 to April 2016 (N = 257,062)

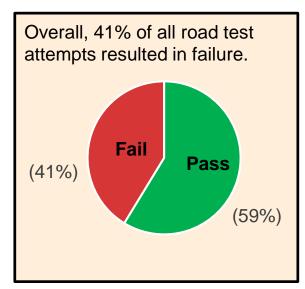
Descriptive Statistics: ICSC Score Distribution



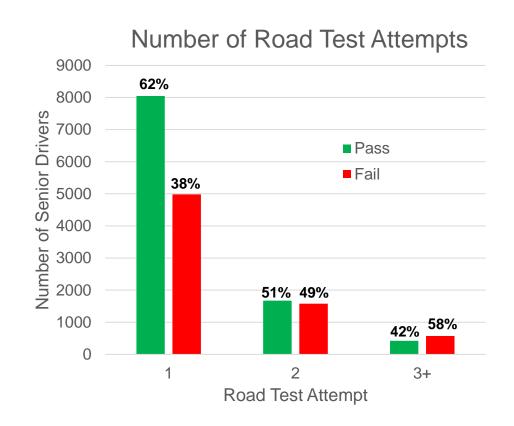




Descriptive Statistics: Road Test Outcomes



Study Period: April 2014 to April 2016 (N = 17,270)





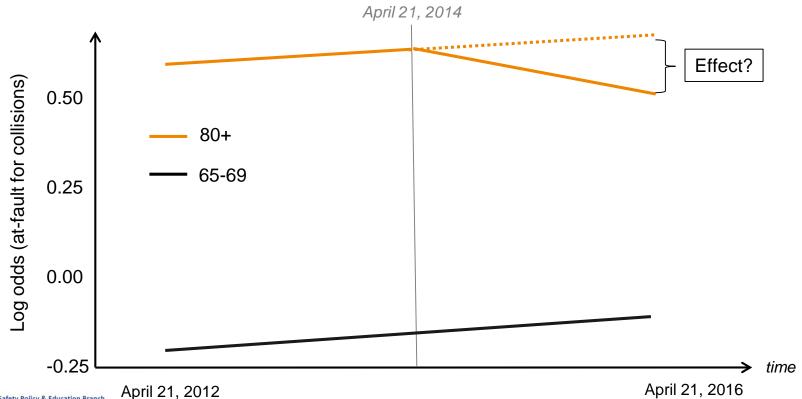


Objectives

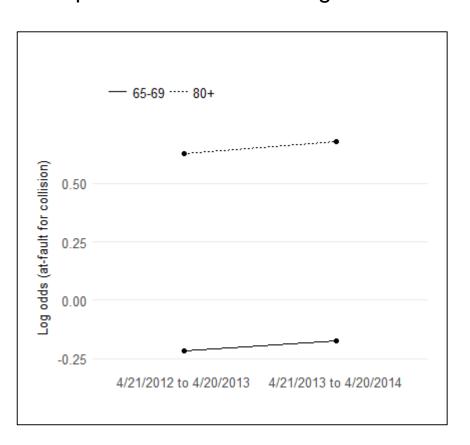
We will share preliminary results on:

- 1. Overall impacts of the 2014 changes to the SDRP on road safety outcomes of senior drivers
- 2. Ability of Decision Tree to "select out" safer drivers
- Road safety outcomes of drivers who passed road test compared to drivers who passed the GES

Outcome Evaluation: Overall impacts of the 2014 changes to the SDRP



Outcome Evaluation:
Overall impacts of the 2014 changes to the SDRP

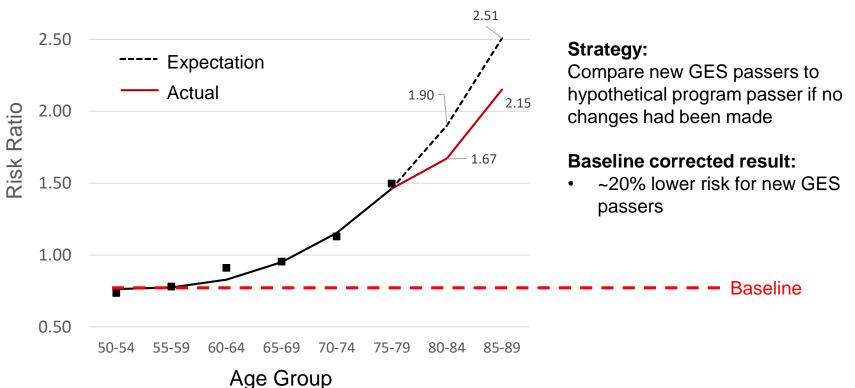


Outcome Evaluation:

Overall impacts of the 2014 changes to the SDRP

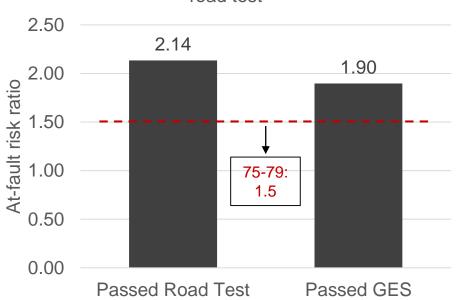
Table 1. Difference-in-Difference Analysis		
	Dependent variable: Odds of being at-fault for collision with 95% confid	ence intervals
Group	1.009 (0.863, 1.180)	_
Time	1.012 (0.970, 1.057)	17% decrease in
Effect (DiD)	0.828** (0.714, 0.961)	odds of being at-
Age	1.048*** (1.039, 1.057)	fault
Sex	0.747* (0.531, 1.050)	
Age x Sex	1.007*** (1.002, 1.012)	
Constant	0.034***(0.019, 0.061)	
Observations	49,491	
Note:	*p<0.1; **p<0.05; ***p<0.01	

Outcome Evaluation: Impact of the GES Decision Tree



Outcome Evaluation: Impact of the Road Test

Risk ratios within 2 years of passing GES or road test



Result: Drivers who pass the road test are not systematically different than drivers who pass the GES in terms of their future at-fault collision risk.



Conclusions

- The 2014 changes to the SDRP had a positive effect on the road safety outcomes of senior drivers overall, compared to the period prior to the changes.
- The cognitive screening tools are effective at efficiently passing safer individuals.
- The road test was not significantly different from the GES in terms of passing safe individuals, but still room for improvement.