

RCMP-GRC



ROYAL CANADIAN MOUNTED POLICE • GENDARMERIE ROYALE DU CANADA

Technology and Training

CIPSRT – ICTSP Symposium

Dr. Gregory Kratzig

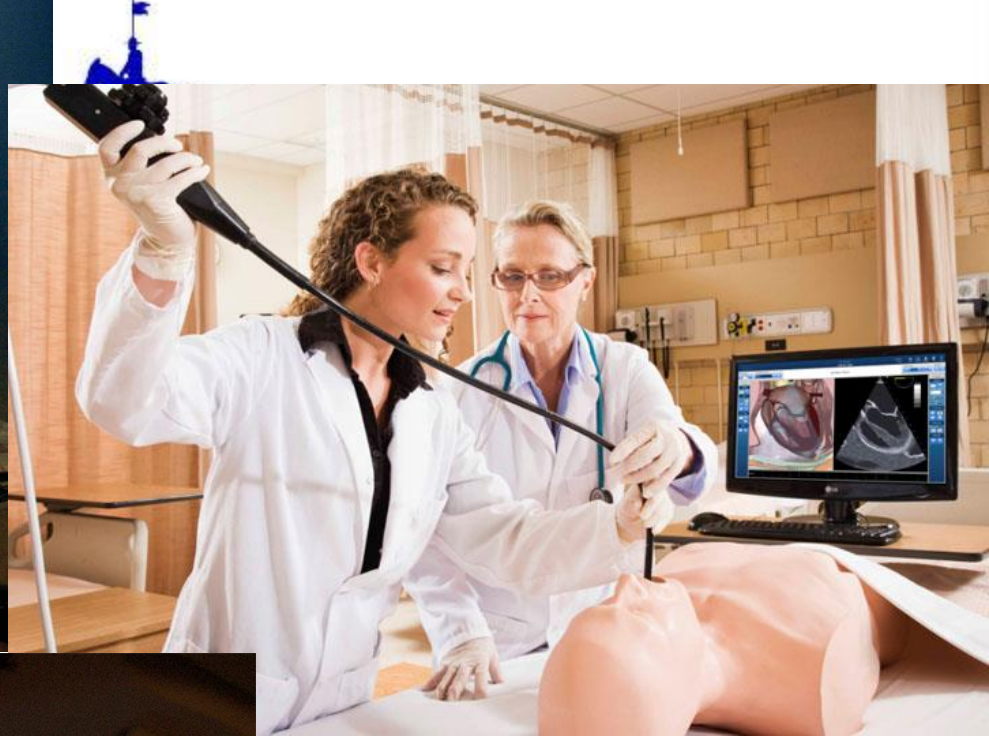
Director, Research and Strategic Partnerships

March 19-20, 2024



Introduction

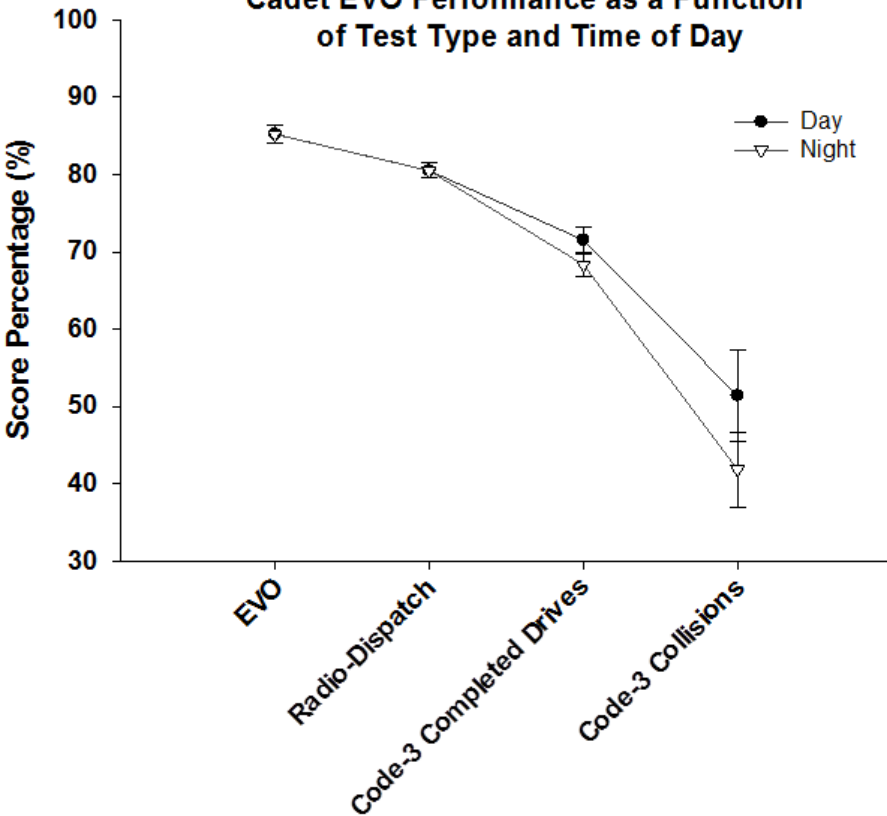
- Depot has been engaged in world leading policing research for over 10 years.
 - Resulted in over \$6M in external funding.
 - Research conducted Depot, nationally and internationally
- Globally recognized for simulation research.
 - Marksmanship.
 - Driving.
 - Judgment.
- PTSD Study



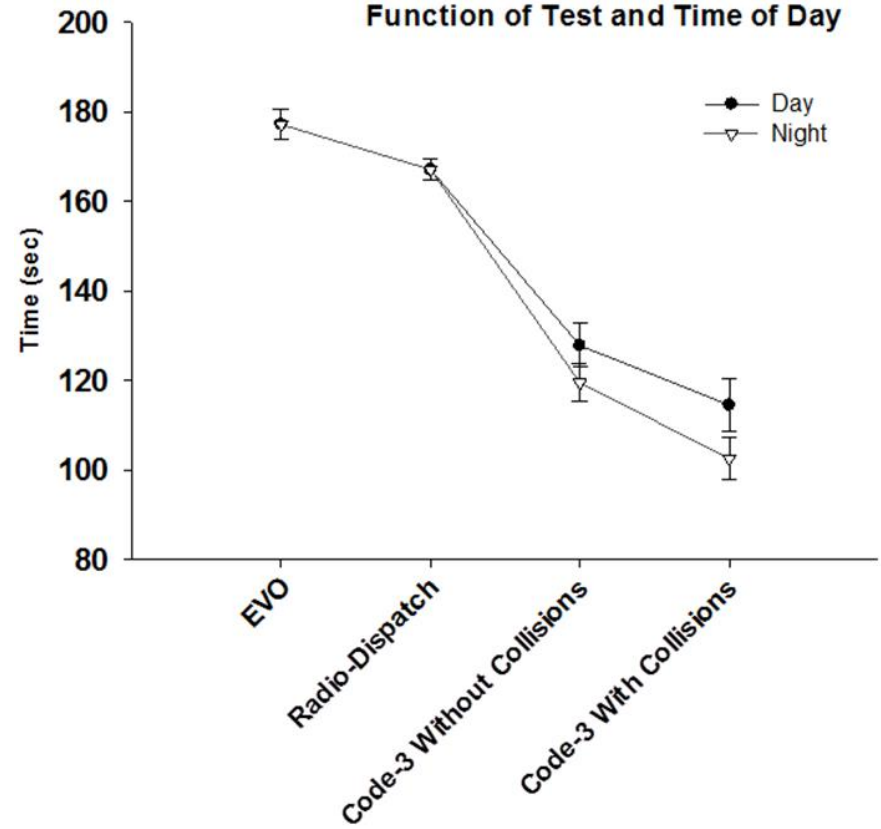


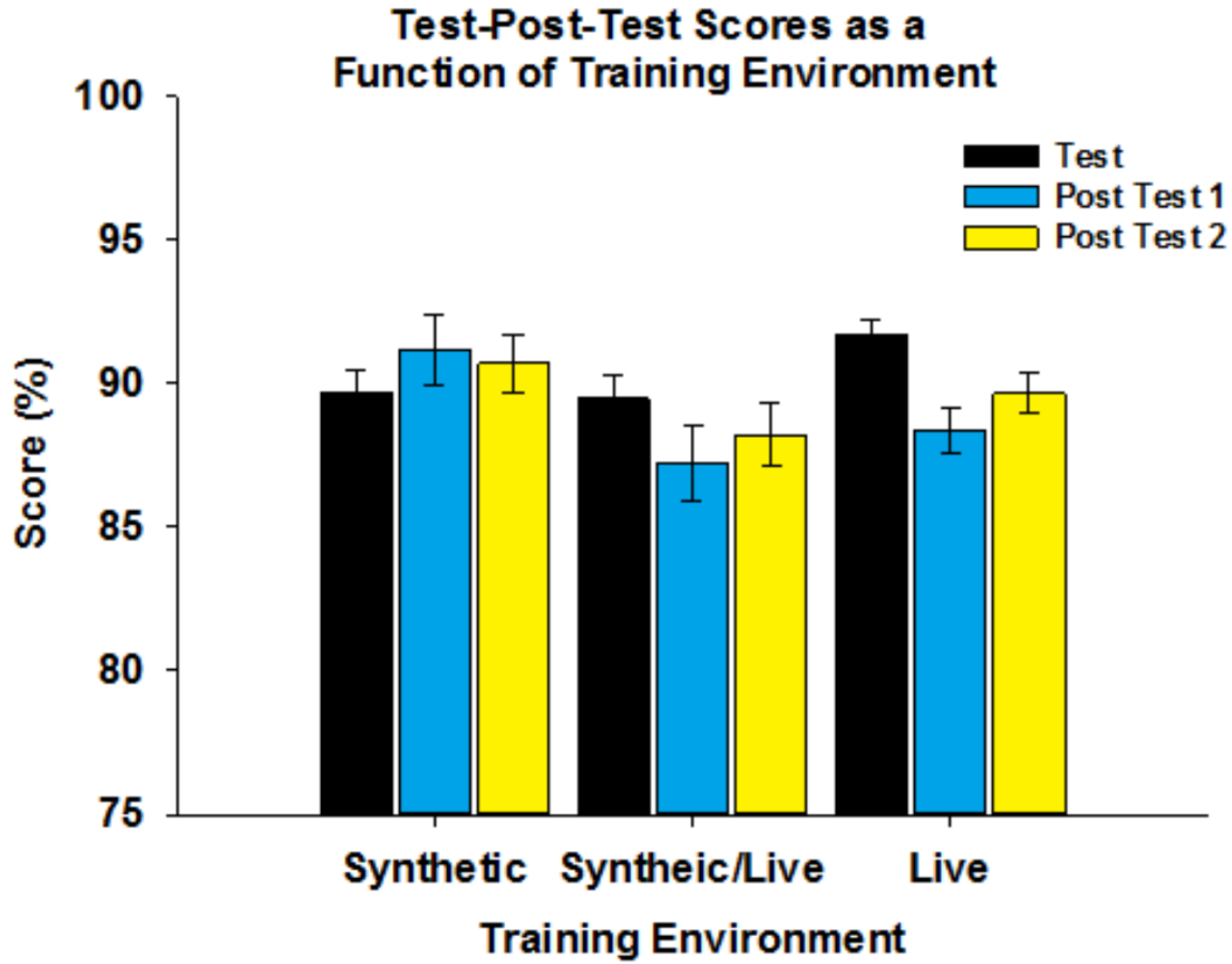
Drive Results (Performance/Speed)

Cadet EVO Performance as a Function of Test Type and Time of Day



Time to Complete EVO Scenario as a Function of Test and Time of Day







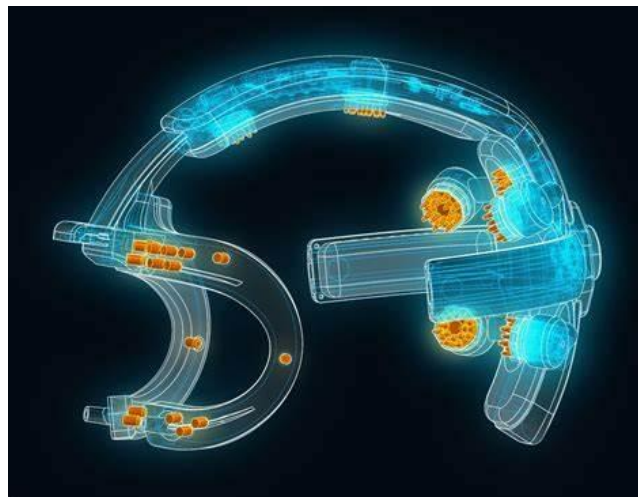
Functional near-infrared spectroscopy (fNIR)



Electrocardiogram



VR and EEG



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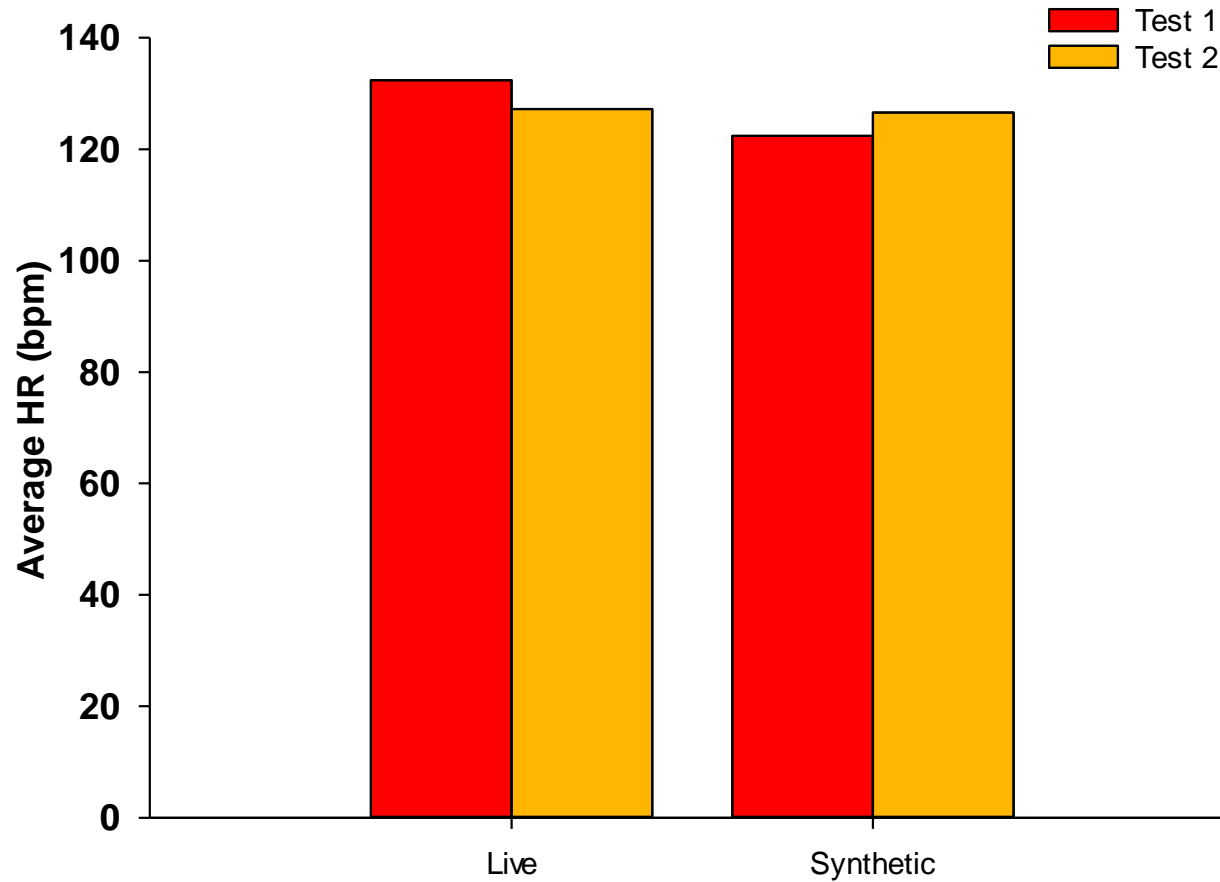


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Maximum HR during Test





Demonstration scenario - 104

Instructors: George Anctil

START BASELINE **START RECORDING**

Students

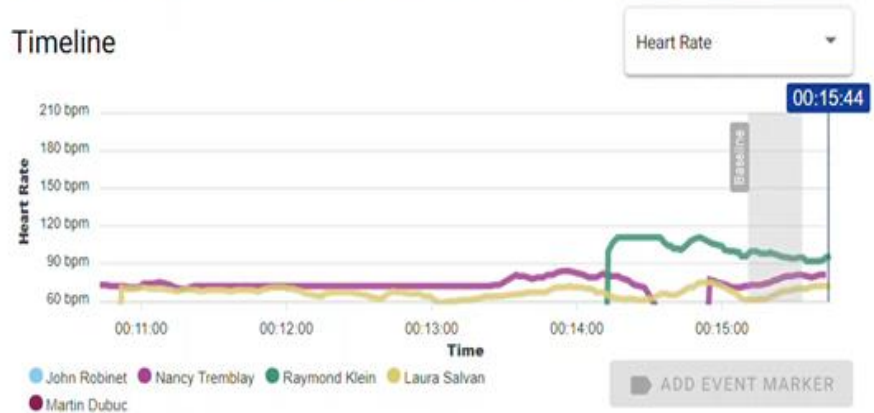
Name	Stress	Heart Rate	Respiration Rate	Activity	Marker
Nancy Tremblay	0 %	81 bpm	14 rpm		
Raymond Klein	0 %	96 bpm	22 rpm		
Laura Salvan	0 %	72 bpm	17 rpm		

Actors

Name	Stress	Heart Rate	Respiration Rate	Activity	Marker
Martin Dubuc	0 %	0 bpm			



Timeline





Questions?

Thank you