

# **An Overview of the Commercial Driver Safety Risk Factors Study**

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# CDIDS Primary Objectives

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- ❑ OBJECTIVE 1: prevalence of demographic characteristics, work experience, lifestyle and behavioral habits, medical conditions, etc.
- ❑ OBJECTIVE 2: personal, medical, and situational factors increase crash or violation risk
- ❑ OBJECTIVE 3: factors associated with presence of OSA
  - ▣ Preliminary
- ❑ OBJECTIVE 4: follow CMV drivers for up to three years



Questionnaire	Description
Medical Examination Report for Commercial Driver Fitness Determination	A qualifying Medical Examination Report for Commercial Driver Fitness Determination is required of all drivers with a commercial driver's license (CDL). The examination form consists of biographical information, such as name, date of birth, weight, height and gender, as well as 64 items related to medical health.
Brief Medical Exam	Collected demographic information (driver's license number, gender, and date of birth) as well as two pieces of objective medical information (blood pressure and heart rate). Only collected for those drivers without a Medical Examination Report.
Initial Driver Survey: Demographic Questionnaire	Basic demographic information that was not covered in the Medical Examination Report (e.g., sleep, lifestyle, training, driving experience, etc.).
Initial Driver Survey: Epworth Sleepiness Scale (ESS)	A self-report screening tool for daytime sleepiness.
Initial Driver Survey: Berlin Questionnaire (BQ)	A self-report screening tool for OSA.
Initial Driver Survey: Survey of Recent Life Experiences (SRLE)	This survey lists recent life experiences that contribute to stress or "daily hassles."
Initial Driver Survey: Dula Dangerous Driving Index (DDDI)	Assesses various aspects of driving behavior, including hostility felt and expressed while driving.
Initial Driver Survey: Social Desirability Scale (SDS)	Items which help determine if a respondent is attempting to appear in a favorable light or is otherwise not responding truthfully.

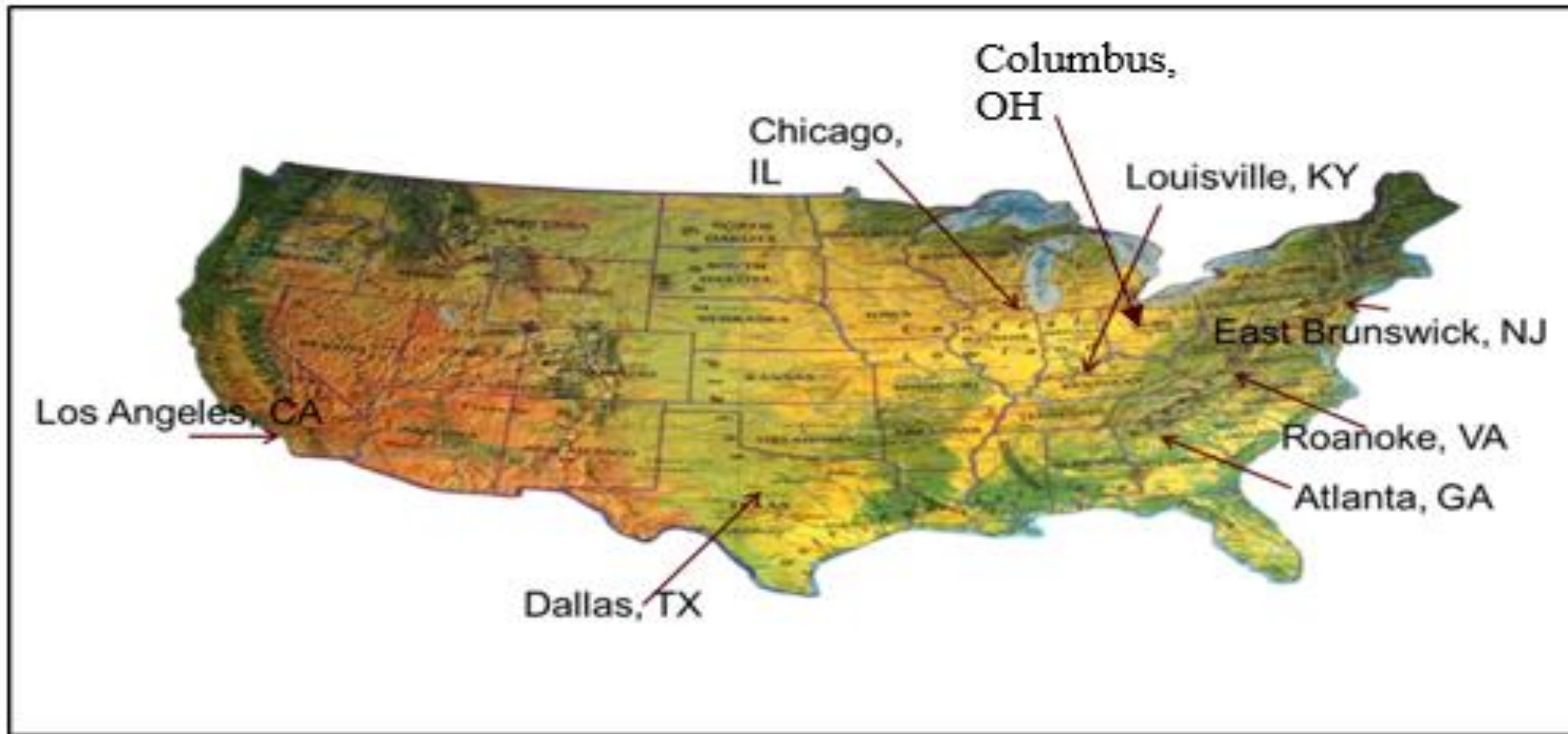
# Safety Outputs

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- Participating carrier
  - ▣ Assigned preventability
  - ▣ Filtered to on-road crashes
- Motor Carrier Management Information System (MCMIS)
  - ▣ DOT recordable
- Commercial Driver License Information System (CDLIS)
  - ▣ Violations (convictions) and crashes

# Participant Recruitment

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# Methods

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Initial Driver Survey  
Consented Driver  
(n = 11,414)

Medical Examination  
Report  
(n = 13,724)

Brief Medical Screen  
(n = 5,790)

# Data Entry/Formatting

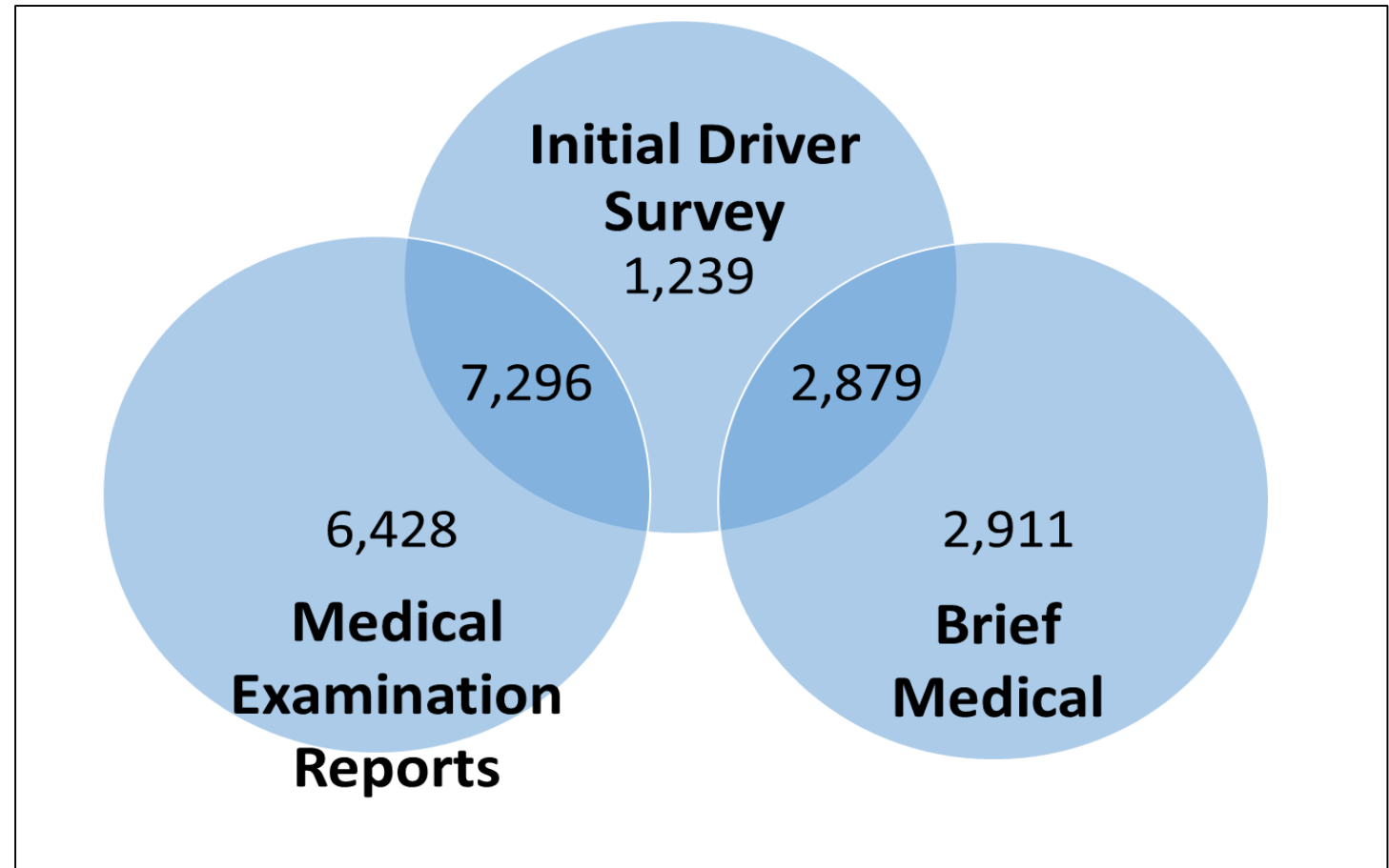
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- Questionnaire data double-entered
- Medical Examination Report comments
  - ▣ Current diagnosed
  - ▣ Tx (yes/no or non-compliant/unsure)
  - ▣ Potential medical conditions
- DL# and names used to link
  - ▣ Carrier crash data
    - Removed claims
  - ▣ MCMIS
  - ▣ CDLIS

# Completion Counts

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- 1<sup>st</sup> completed measure
- 20,753 unique drivers
  - ▣ No duplicates





# Next Steps

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- Report will be published soon
- Public-use dataset shortly after