

# ROADWAY SAFETY INSTITUTE

Advancing roadway safety with user-centered solutions

UTC Project Information	
Project Title	The Screening Effectiveness of the Commercial Driver's Medical Examination
University	University of Minnesota Morris
Principal Investigator	Stephen Burks
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Funding Source(s) and Amounts Provided (by each agency or organization)	Roadway Safety Institute – Office of the Vice President for Research: \$100,000
Total Project Cost	\$100,000
Agency ID or Contract Number	UTC Grant Number: DTRT13-G-UTC35 CTS Project Number: 2018051
Start and End Dates	02/28/2018 – 05/31/2019
Brief Description of Research Project	<p>The project is to write and publish in an appropriate medical science journal the first-ever formal benchmarking study for the screening effectiveness of the Commercial Drivers Medical Examination (CDME) with regard to specific safety-relevant medical conditions—obstructive sleep apnea (OSA) and between one and three other conditions, such as hypertension. This can only be accomplished with access to CDME records for truck drivers that also can be matched with individually-identified protected health information and provides separate medical diagnoses of the same drivers—a combination that is not widely available. The initial analysis is being done with data from 2005–2009, which predates the 2014 changes by the Registry of Certified Medical Examiners—a revision of the CDME process mandated by Congress due to concerns about its effectiveness. The goal is to provide a historical benchmark, against which a similar study of post-Registry data can be compared, to see how effectiveness may have changed. The project also finalizes the conditions for, and begins the acquisition of, later-generation data, in preparation for proposing a follow-up study of the post-Registry CDME process to the Federal Motor Carrier Safety Administration.</p> <p>Note that this project did not produce a traditional technical report; it resulted in a published journal article instead. Citation:</p>

Last updated (9/27/2019)



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	Burks, S.V., J.E. Anderson, B. Panda, H.S. Haider, D. Shi, Y. Li, M. Cagle, et al. "The Pre-Registry Commercial Driver's Medical Exam: Screening Sensitivity and Certification Lengths for Two Safety-Related Medical Conditions." <i>Journal of Occupational and Environmental Medicine</i> 62, no. 3 (2020): 237–45. <a href="https://doi.org/10.1097/JOM.0000000000001816">https://doi.org/10.1097/JOM.0000000000001816</a> .
Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here	<i>Nothing to report.</i>
Impacts/Benefits of Implementation (actual, not anticipated)	<i>Nothing to report.</i>
Web Links <ul style="list-style-type: none"><li>• Reports</li><li>• Project website</li></ul>	<a href="http://www.roadwaysafety.umn.edu/research/search/projectdetail.html?id=2018051">http://www.roadwaysafety.umn.edu/research/search/projectdetail.html?id=2018051</a> <a href="https://doi.org/10.1097/JOM.0000000000001816">https://doi.org/10.1097/JOM.0000000000001816</a>

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