



Medical fitness and vocational driving: a shared responsibility

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What is Traffic Medicine?

- A relatively new specialism embracing all those disciplines, techniques, and methods aimed at reducing death and injury inflicted by traffic crashes
- Also <u>enabling /rehabilitative</u> in trying to ensure that transport mobility is not hampered, or rendered unsafe, by remediable illness or functional loss.



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LOOKING FOR MEDICAL FITNESS TO DRIVE GUIDELINES?

Published in April 2017, this document is designed to help doctors and other healthcare professionals assess medical fitness to drive

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Sláinte agus Tiomáint Medical Fitness to Drive Guidelines



(Group 1 and 2 Drivers) July 2020



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Traffic Medicine



Communications



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Údarás Um Shábháilteacht Ar Bhóithre Road Safety Authority

Shared responsibilities







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Raising driver awareness about medical conditions and driving





Epilepsy, Seizures and Driving This is as evening of driving with epilepsy. The complete

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NATIONAL OFFICE FOR

TRAFFIC MEDICINE

What should you do

Emergency Department (ED): getting back to

This is an overview of returning to driving after an injury The complete standards are published in SIdinte agus Tionslint: Medical Fitness to Drive (MFID) Guidelines.



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Shared responsibilities







Occupational vehicle accidents

- leading cause of work-related traumatic injury and death
- One-third US, one-half UK drive as part of work
- Injury burden greater than HGV accidents





Major Collateral Damage







1238PSYCHOSOCIAL RISK FOR SURVIVOR DRIVERS IN
WORK-RELATED ROAD TRAFFIC FATALITIES

A Drummond*, M Codd. University College Dublin, Dublin, Ireland

10.1136/oemed-2018-ICOHabstracts.1603 Occup Environ Med 2018;75(Suppl 2):A1-A650







Strong evidence that advanced and remedial driver education does not reduce road traffic crashes or injuries



A systematic review of the literature on the effectiveness of interventions

Report submitted to the IOSH Research Committee

Graham B Grayson BSc PhD and Shaun Helman BSc PhD





Systematic review

A systematic review of epidemiological studies investigating risk factors for work-related road traffic crashes and injuries G Robb, S Sultana, S Ameratunga, R Jackson

Accident Analysis and Prevention 39 (2007) 1006-1014



www.elsevier.com/locate/aap

Working in light vehicles—A review and conceptual model for occupational health and safety $\stackrel{\text{transform}}{\to}$

Rwth Stuckey^{a, []}, Anthony D. LaMontagne^{b, 1}, Malcolm Sim^{c, 2}





- User descriptors
 - Education*
- Occupational factors
 - Long periods, fatigue,
- Vehicle
 - Less if self-owned
- Organizational
 - Employment type, 'Fleet-Driver' effect





Key Medical Issues

• Alcohol and substance misuse

- Fatigue/sleep disorders
 - Screening for obstructive sleep apnoea not clarified
 - High index suspicion
 - Crashes, obesity, , sleepiness, middle age onwards, hypertension, increased neck circumference







National Driver Licence Service An tSeirbhis Náisiúnta um Cheadúnais Tiomána

Alcohol and Driving

This is an overview of the driving risks for drivers who misuse alcohol and have alcohol-dependence issues. Full guidelines are published in Sláinte agus Tiomáint: Medical Fitness to Drive (MFTD) Guidelines.

Alcohol and speed are two leading factors in fatal collisions. Alcohol was shown to be a factor in over 15% of fatal collisions in 2007 (Review of Pre-crash Behaviour in fatal Report 1: Alcohol, RSA Research Department, 2



Cessation to abstinence/control

IrelandUKMisuse3 months6 monthsDependence6 months12 months





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Dame Carol Black's Review of the health of Britain's working age population

Working for a healthier tomorrow







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1686bPOLITICS AND SAFETY. WHY PRESERVING THE NORDICMODEL IS MORE IMPORTANT THAN THE DOCTOR'SHEALTH ASSESSMENT FOR TRAFFIC SAFETY

Oern Foss. Norwegian State Railway, Oslo, Norway

Occup Environ Med 2018;75(Suppl 2):A1-A651





Three challenges

• A lack of management commitment to safety

• Lax risk management practices in licencing requirements

• A reliance on the use of technology in the context of fleet maintenance, incident reporting and communication practices

A. Warmerdam et al. / Accident Analysis and Prevention 98 (2017) 64–73





Do management practices support or constrain safe driving behaviour? A multi-level investigation in a sample of occupational drivers

Sharon Newnam^{a,*}, Amanda Warmerdam^a, Dianne Sheppard^a, Mark Griffin^b, Mark Stevenson^c

^a Monash University Accident Research Centre, Monash University, Australia ^b Centre for Safety, The University of Western Australia Business School, Australia ^c Urban Transport and Public Health, University of Melbourne, Australia

Accident Analysis and Prevention 102 (2017) 101-109

- Under conditions of high investment in job and work design, communication and selection practices, drivers reported poorer driving behaviour.
- Under conditions of high investment in remuneration, drivers reported safer behaviour, but only when they perceived that managers valued and prioritised safety.





High performance workplace systems' influence on safety attitudes and occupational driver behaviour

Warmerdam *et al*, Safety Science 106 (2018) 146–153

..the results suggest that individual drivers' safety attitudes had a positive effect on safety behaviour in the work-related driver context, yet their organisation's HPWS has a negative impact on this type of safety behaviour.

...when there is a lack of guidance through HPWS practices, employees draw on individual attitudes to direct behaviour





Approaches

- Behaviour modification ++++
 - Incentive schemes
 - Group-based discussions
 - Goal-setting and feedback programmes

Driving (re)training – ????

S. Newnam, B. Watson/Safety Science 49 (2011) 369-381







A new approach to managing work-related road traffic injury: The development of a health investment framework

Amanda Warmerdam O^a, Sharon Newnam^a, Dianne Sheppard^a, Mark Griffin^b, and Mark Stevenson^c

^aMonash Injury Research Institute, Monash University, Clayton, Victoria, Australia; ^bThe University of Western Australia, Crawley, Western Australia; ^cTransport, Health and Urban Design, University of Melbourne, Victoria, Australia





- HPWS: senior-level management cultivate an enriched workplace environment that promotes high-quality exchange relationships.
- 2. High-quality leader-member exchange relationships play a pivotal role in enhancing trust, empowerment, and autonomy at the individual driver level.
- 3. Trust, empowerment, and autonomy enhance driver capability.





Raising vocational driver awareness about medical conditions and driving







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