

## **Alcohol and driving**

## Prof Desmond O'Neill

### **National Office for Traffic Medicine**





### **Government Road Safety Strategy (2021 – 2030)**



 Action 23: Establish a working group to consider and make recommendations for the implementation of an alcohol interlock programme, supported by a drink drive rehabilitation course in Ireland, for high-risk drink drive offenders



### **Alcohol Interlock Installation Facilitation**

New buses and trucks

All new models 2024

All new cars 2030

See RSA.ie



38% alcohol-related collisions.



29% of all 867 collisions involved at least one driver or motorcyclist with a record of

alcohol consumption prior to the collision.





Half of all drivers and motorcyclists over four times the current drink driving limit. A quarter of drivers were five times over the current legal limit and a fifth of motorcyclists were five times over the current legal limit.





Almost half (47%) of the drivers aged between 16 and 24 years had a BAC of 201-251+



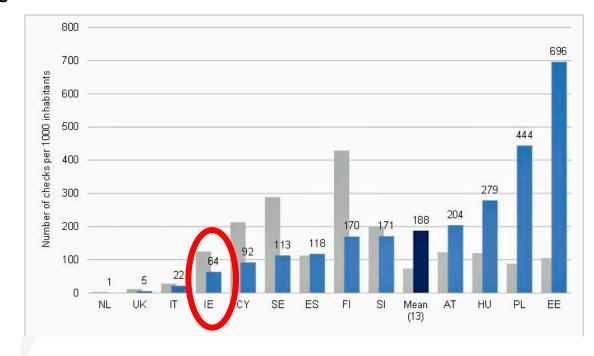
Almost 1/3 of the alcohol-related collisions occurred on a Sunday.



Almost 2/3 occurred on the weekend days Friday, Saturday and Sunday.



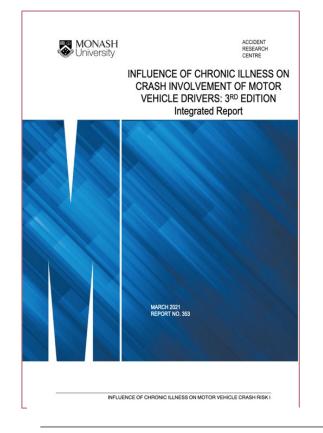
Figure 3.16 Number of alcohol checks per 1000 inhabitants in 2010 and 2019 in selected countries<sup>20</sup>



BAC equivalent levels	Number of specimens	% above each level
>0	5878	66.3
>20	5515	62.2
>50	4921	55.5
>80	4202	47.4
>100	3733	42.1
>200	2390	26.9

## Background to DUI and AUD

- Almost 80% of first-time offenders, 89% of second-time offenders and 98% of third time DUI offenders had alcohol use disorder(AUD)
- Hard core of 10% of all drink-driving offenders but is involved in two-thirds of all alcoholinvolved crashes





#### Ethical debate

Why are doctors ambivalent about patients who misuse alcohol?

BMJ 1997;315:1297-1300

It is not unusual for doctors to see patients who they strongly suspect are misusing alcohol. Should they ignore it or try to intervene? And what should they do if the patient's alcohol misuse puts other people at risk? In this ethical debate a lawyer, two psychiatrists, and an oral and maxillofacial surgeon give their views.

## Alcohol Use Disorder

A blind spot for healthcare professions and licencing authorities

### **Alcohol Misuse**

A state which, because of consumption of alcohol, causes disturbance of behaviour, related disease or other consequences, likely to cause the patient, his/her family or society harm now, or in the future, and which may or may not be associated with dependence ICD10 F10.1 ...Binge Drinking..

3 Months till Abstinent/Controlled

## **Alcohol Dependence**

A cluster of behavioural, cognitive and physiological phenomena that develop after repeated alcohol use and which include a strong desire to take alcohol, difficulties in controlling its use, persistence in its use despite harmful consequences, with evidence of increased tolerance and sometimes a physical withdrawal state - ICD10 F10.2

6 Months free of alcohol

## Stakeholder engagement

- Working Group Alcohol Interlocks & Driver Rehabilitation
  - Road Safety Authority
  - Department of Transport
  - Department of Justice
  - An Garda Síochána (police force)
  - Medical Bureau of Road Safety



AN OVERVIEW OF CURRENT AND FORTHCOMING PROGRAMMES







Criterion	ETSC	PACTS	EU Commission	Other		
Effectiveness						
Reducing reoffending	2016, 2020, 2023		ECORYS (2014)			
More effective than alternatives	2016			NOTM (2022)		
Impact on road traffic crashes	2016		ECORYS (2014)	NOTM (2022)		
Impact on fatalities	2016		ECORYS (2014)	NOTM (2022)		
Effects of rehabilitation	2016					
Health & social benefits						
Consumption of alcohol						
Health benefits	2020		ECORYS (2014)			
Improvement in relationship with families						

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Health benefits	2020	ECORYS (2014)		
Improvement in relationship with families	ETSC	<b>EU Commission</b>	Other	
Effectiveness				
Mobility & economic benefits				
<b>Odorbenentianalyse</b> salternatives	2016	ECORYS (2014)	SWOV (2020)	
Semparint go joo bos af do it rofffein diens hes	2016	ECORYS (2014)	NOTM (2022)	
Societal factors				
Actentabiliely abilitation	2016			
Health&rspeial benefits				
Offendention petation of				
Dheadthalovene fritess	2023	ECORYS (2014)		
Offered en menetgina trelationship with families	2023			
Reducing unlicensed driving	2016			
Mobility &neconomic benefits	2023	ECORYS (2014)		

# Cost Benefit Analysis of the Irish alcohol Interlock programme 2020 (SWOV)

Table 5.2. Summary of the results of the total incremental benefits and costs for the base scenarios and the resulting Benefit Cost Ratio and Net Present Value

Overall summary of benefits and costs (€) over the appraisal period of 2021-2030					
Scenario	Scenario 1, low reduction range	Scenario 1, high reduction range	Scenario 2, low reduction range	Scenario 2, high reduction range	
Present value of total benefits	58,399,655	88,690,060	75,939,328	115,316,855	
Present value of total costs	10,412,462	10,412,462	15,804,622	15,804,622	
Net present value (NPV)	47,987,193	78,277,598	60,134,706	99,512,232	
BCR	5.6	8.5	4.8	7.3	

.The most likely implementation of the AIP, will result in a BCR of 6.1 and an NPV of 52 million euros.

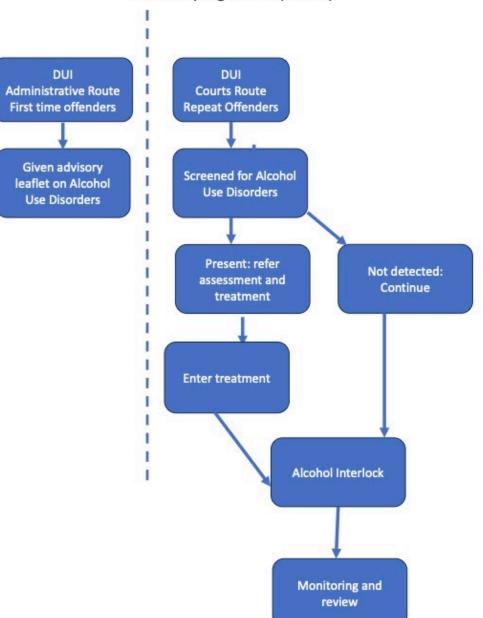
 $\frac{\text{https://www.rsa.ie/docs/default-source/road-safety/r4.1-research-reports/safe-road-use/cost-benefit-analysis-of-the-irish-alcohol-interlock-program-20201e8ac850-22a5-47d0-8da2-86e000556367.pdf? Status=Master \&sfvrsn=966c13fa\_3$ 

## Key message

 Only works when embedded in coordinated rehabilitative health and legal framework with public buy-in



Schematic representation of screening, assessment, rehabilitation and alcohol ignition interlock programme (SARIIP)





#### **Spectrum of responses to alcohol problems**

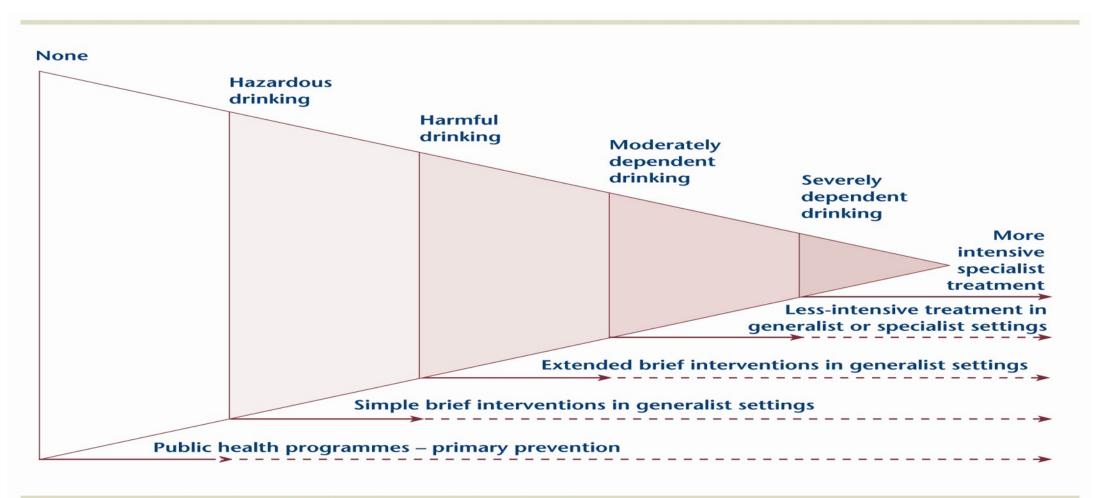


Figure 1 A spectrum of responses to alcohol problems

Source: Rastrick et al. (2006), 1 adapted from Institute of Medicine (1990).2

# HSE SAOR Brief Intervention for Drug Users

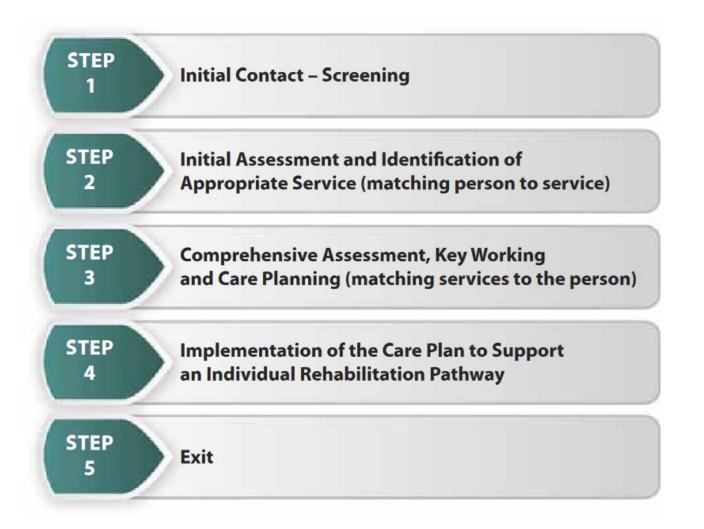
- Support, Ask and Assess, Offer Assistance, Refer
  - Model (O'Shea, Goff & Armstrong, 2017)
- Theoretical and operational framework for the delivery of screening and

brief interventions for problematic substance use.

https://www.hse.ie/eng/about/who/primarycare/socialinclusion/addiction/national-addiction-training/alcohol-and-substance-use-saor/

The National Protocols and Common Assessment Guidelines (NDRIC, 2011) and the NDRF (2010) process can

be summarised as follows:



https://www.hse.ie/eng/about/who/primarycare/socialinclusion/addiction/national-addiction-training/alcohol-and-substance-use-saor/saor-2nd-edition-2017.pdf

## **SAOR Education & Training**

• E-learning: 'Brief Intervention Skills for Dealing with Substance Misuse' and is based on the SAOR model.

## Recommendations

- 1. A lead agency should be identified or established to take overall responsibility for the SARIIP programme
- 2. The programme should form an integral part of the judicial approach to DUI with mandatory implementation for certain groups
- 3. Programme should be funded jointly by relevant government departments
- 4. A health sub-committee should be established to support the Screening, Assessment and Rehabilitation elements
- 5. A specialist sub-committee should be established to consider the legislative and regulatory aspects of programme implementation

## Recommendations

- 6. Ensure rapid implementation of SARIIP after DUI detection including ongoing monitoring and effective enforcement
- 7. Engage with the insurance industry
- 8. Adopt the European standards for Alcohol Ignition Interlocks
- 9. Implementation for Group 1 drivers should be on a trial basis initially.
- 10. Ensure good communication lines established from the design phase of the programme onwards
- 11. A strategic approach should be adopted regarding overall programme implementation, starting with a preventive approach to Group 2 licence holder groups

# **Key Learnings**

- Integrated SRAIIP effective for road safety and added societal benefits
- Requires broad stakeholder and public engagement

• Significant inputs needed from Depts Health, Transport and Justice

 Whole system approach is key to efficient and effective development and implementation

# Make Every Contact Count

Ask

Advise

Consider driving advice

• Check alcohol treatment services in your area



### **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.



https://www.ndls.ie/medical-fitness/health-and-driving-information-leaflets.html