Background

There are myriad barriers to equality, including health equality, for persons with disabilities [1]. Young adults with long-lasting health conditions, impairments or disabilities (LHC) face pervasive social and material hardship [2]. Smoking is a leading cause of morbidity and premature death, contributing substantially to inequalities [3,4] yet little is known about smoking and even less about e-cigaretteuse in this population. We report on smoking and ecigarette use in Irish 20-yearolds reporting LHC.

Prevalence of chronic health conditions among young adults living in Ireland and associations with smoking and e-cigarette-use

Joan Hanafin, Salome Sunday, Luke Clancy **TobaccoFree Research Institute Ireland, TU Dublin**

Irish Thoracic Society Annual Scientific Meeting, Strand Hotel Limerick, 9-11 Nov 2023

Table 1. Number of longlasting conditions or

Table 2. Type of long-lasting conditions or difficulties of young adults

Results

Seven long-lasting conditions were identified blindness or serious vision impairment; deafness or serious hearing impairment; difficulty with basic physical activities such as walking, climbing stairs, etc; intellectual disability; difficulty with learning, remembering or concentrating; psychological or emotional condition; difficulty with pain or breathing or any other chronic illness or condition. Overall, 22.2% (n=1151) of 20-year-olds reported having one or more LHC. 15.3% (n=793) reported one condition only while 2.1% of respondents (n=111)reported having 3 or more conditions (Table 1).

Methods

We use data from Wave 4 of Growing Up in Ireland Cohort '98, n=5,190, when participants were 20 years old [5]. Ever and current smoking and e-cigarette use were measured by whether participants responded yes to "ever" used and yes to "occasional" or "daily" use. Chronic health conditions were measured by whether respondents answered yes or no to having one or more of a number of named, longlasting health conditions or difficulties.

difficulties of young adults (20-year-olds)

Do you have any of the following long-lasting conditions or difficulties? (Yes/No to 1 or more)	N (%)
No conditions	4038 (77.8)
1 Condition	793 (15.3)
2 Conditions	247 (4.8)
3 or more conditions	111 (2.1)
Total	5189 (100.0)

Do you have any of the following long- lasting conditions or difficulties? (Yes/No)	Yes N (%)	No N (%)	Total
Blindness or serious vision impairment	97 (1.9)	5092 (98.1)	5189 (100.0)
Deafness or a serious hearing impairment	49 (1.0)	5140 (99.0)	5189 (100.0)
Mobility	94 (1.8)	5096 (98.2)	5190 (100.0)
Intellectual	230 (4.4)	4960 (95.6)	5190 (100.0)
Learning	543 (10.5)	4647 (89.5)	5190 (100.0)
Psychological or emotional	365 (7.0)	4822 (92.9)	5187 (100.0)
Pain	297 (5.7)	4892 (94.3)	5189 (100.0)

Table 3. Smoking and e-cigarette use among young adults with and without long-lasting conditions or difficulties

Number of long-lasting conditions or difficulties					
	No Condition	At least 1 condition	Total	P-value	
Smoking/E-cigarette Use	4038 (77.8)	1151 (22.2)	5189 (100.0)		
Ever-Smoked (Wave 4)					
No	1018 (25.3)	326 (28.9)	1344 (26.1)		
Yes	3004 (74.7)	803 (71.1)	3807 (73.9)	0.02	
Current Smoking (Wave 4)					
No	2565 (63.5)	679 (59.0)	3244 (62.5)		
Yes	1474 (36.5)	472 (41.0)	1946 (37.5)	0.01	
Ever used e-cigarettes (Wave 4)					
No	2127 (52.9)	564 (50.0)	2691 (52.2)		
Yes	1896 (47.1)	564 (50.0)	2460 (47.8)	0.09	
Current e-cigarette use (Wave 4)					
No	3528 (87.4)	972 (84.4)	4500 (86.7)		
Yes	511 (12.6)	179 (15.6)	690 (13.3)	0.01	

Of these, the most frequently reported difficulties (Table 2) were learning (10.5%, n=543), psychological/emotional (7.0%, n=365) and pain (5.7%, n=297). Young adults with LHC had significantly higher prevalence of current smoking (41.0 vs 36.5%) and current e-cigarette use (15.6%) vs 12.6%) (Table 3). They were also more likely to have ever-used e-cigarettes (NS) but significantly less likely to have ever-smoked.

References

- 1. Mannan, H., MacLachlan, M., McVeigh, J. and EquitAble Consortium, 2012. Core concepts of human rights and inclusion of vulnerable groups in the United Nations Convention on the rights of persons with disabilities. *Alter*, 6(3), pp.159-177. 2. Emerson, E., Honey, A., Madden, R. and Llewellyn, G., 2009. The well-being of Australian adolescents and young adults with self-reported long-term health conditions, impairments or disabilities: 2001 and 2006. Australian Journal of Social *Issues,* 44(1), pp.39-54.
- 3. Laaksonen M, Rahkonen O, Karvonen S, et al. Socioeconomic status and smoking: analysing inequalities with multiple indicators. Eur J Public Health 2005;15:262–
- 4. Hanafin, J. and Clancy, L., 2015. History of tobacco production and use. In *The tobacco* epidemic (Vol. 42, pp. 1-18). Karger

Conclusions

Smoking and e-cigarette use is significantly higher in 20-year-olds with LHC, adding further inequality to the lives of these rarely-surveyed

Disclosures

Acknowledgements and Disclosures

- **Conflict of Interest:** The authors declare that they have no conflict of interest.
- Funding: This study was funded by Grant number 209, Royal City of Dublin Hospital Trust.
- Source: Results are based on analysis of strictly controlled Research Microdata Files provided by the Central Statistics Office (CSO) Ireland.
- **Ethical Approval:** granted by the GUI Research Ethics Committee, Department of Children and Youth Affairs.
- Corresponding Author: Professor Joan Hanafin
- <u>https://orcid.org/0000-0002-8016-2266</u>



5. McNamara, E., O'Reilly, C., Murray, A., O'Mahony, D., Williams, J., Murphy, D., McClintock, R. and Watson, D., 2021. Growing Up in Ireland: Design,

Instrumentation and Procedures for

Cohort'98 (Child Cohort) at Wave 4 (20



young adults. Targeted surveys and interventions are required.



