

Appendix

Title: Alcohol use in Europe in 2021: Findings from a cross-sectional survey of 33 European countries

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Table A1

STROBE Statement—Checklist of items that should be included in reports of cross-sectional studies.

	Item No	Recommendation	Page No
Title and abstract	1	(a) Indicate the study's design with a commonly used term in the title or the abstract	3
		(b) Provide in the abstract an informative and balanced summary of what was done and what was found	3
Introduction			
Background/rationale	2	Explain the scientific background and rationale for the investigation being reported	5
Objectives	3	State specific objectives, including any prespecified hypotheses	5
Methods			
Study design	4	Present key elements of study design early in the paper	6
Setting	5	Describe the setting, locations, and relevant dates, including periods of recruitment, exposure, follow-up, and data collection	6, Table 1
Participants	6	(a) Give the eligibility criteria, and the sources and methods of selection of participants	6
Variables	7	Clearly define all outcomes, exposures, predictors, potential confounders, and effect modifiers. Give diagnostic criteria, if applicable	6-7
Data sources/measurement	8*	For each variable of interest, give sources of data and details of methods of assessment (measurement). Describe comparability of assessment methods if there is more than one group	6-7
Bias	9	Describe any efforts to address potential sources of bias	6-8
Study size	10	Explain how the study size was arrived at	Figure 1
Quantitative variables	11	Explain how quantitative variables were handled in the analyses. If applicable, describe which groupings were chosen and why	6-8
Statistical methods	12	(a) Describe all statistical methods, including those used to control for confounding	7-8
		(b) Describe any methods used to examine subgroups and interactions	7-8
		(c) Explain how missing data were addressed	6
		(d) If applicable, describe analytical methods taking account of sampling strategy	7-8
		(e) Describe any sensitivity analyses	7-8
Results			
Participants	13*	(a) Report numbers of individuals at each stage of study—eg numbers potentially eligible, examined for eligibility, confirmed eligible, included in the study, completing follow-up, and analysed	8, Figure 1, Table 1
		(b) Give reasons for non-participation at each stage	Table 1 (notes)
		(c) Consider use of a flow diagram	Figure 1
Descriptive data	14*	(a) Give characteristics of study participants (eg demographic, clinical, social) and information on exposures and potential confounders	Table 1, Appendix Table A2
		(b) Indicate number of participants with missing data for each variable of interest	6

	Item No	Recommendation	Page No
Outcome data	15*	Report numbers of outcome events or summary measures	9-10, Table A3, A4, A5
Main results	16	(a) Give unadjusted estimates and, if applicable, confounder-adjusted estimates and their precision (eg, 95% confidence interval). Make clear which confounders were adjusted for and why they were included	Table 2, Table A6, A7
		(b) Report category boundaries when continuous variables were categorized	n. a.
		(c) If relevant, consider translating estimates of relative risk into absolute risk for a meaningful time period	n. a.
Other analyses	17	Report other analyses done—eg analyses of subgroups and interactions, and sensitivity analyses	10-11
Discussion			
Key results	18	Summarise key results with reference to study objectives	11
Limitations	19	Discuss limitations of the study, taking into account sources of potential bias or imprecision. Discuss both direction and magnitude of any potential bias	11-12
Interpretation	20	Give a cautious overall interpretation of results considering objectives, limitations, multiplicity of analyses, results from similar studies, and other relevant evidence	11-13
Generalisability	21	Discuss the generalisability (external validity) of the study results	11-13
Other information			
Funding	22	Give the source of funding and the role of the funders for the present study and, if applicable, for the original study on which the present article is based	2

Note: n. a. = not applicable. Information on the STROBE Initiative is available at www.strobe-statement.org.

Table A2

Comparison of the DEEP SEAS sample distribution with that of national population statistics.

Country	Sex	Age: 18-34 years						Age: 35-44 years						Age: 45-64 years					
		Low/mid SES			High SES			Low/mid SES			High SES			Low/mid SES			High SES		
		DEEP SEAS	Stat		DEEP SEAS	Stat		DEEP SEAS	Stat		DEEP SEAS	Stat		DEEP SEAS	Stat		DEEP SEAS	Stat	
Austria	men	11.1 (10.0, 12.3)	11.6	3.6 (3.0, 4.3)*	5.0	7.3 (6.4, 8.2)	6.5	2.9 (2.3, 3.4)*	4.0	19.2 (17.8, 20.6)*	15.7	4.8 (4.0, 5.6)*	7.2						
Austria	women	13.7 (12.5, 14.9)*	10.0	5.4 (4.6, 6.2)*	6.3	7.3 (6.4, 8.2)*	6.2	3.6 (2.9, 4.2)*	4.3	17.5 (16.2, 18.9)	17.3	3.5 (2.9, 4.2)*	5.9						
Belgium	men	6.4 (5.2, 7.6)*	11.8	8.6 (7.2, 10.1)*	5.5	4.6 (3.5, 5.6)*	6.1	5.9 (4.7, 7.1)*	4.6	11.9 (10.2, 13.5)*	14.6	11.5 (9.9, 13.1)*	7.6						
Belgium	women	6.8 (5.5, 8.0)*	9.4	13.2 (11.5, 14.9)*	7.7	3.9 (2.9, 4.9)	4.9	6.7 (5.4, 7.9)	5.8	11.4 (9.8, 13.0)*	13.5	9.1 (7.7, 10.6)	8.6						
Bosnia and Herzegovina	men	14.0 (12.2, 15.8)	14.4	3.6 (2.6, 4.5)	3.7	14.0 (12.3, 15.8)*	8.2	3.9 (2.9, 4.9)*	2.4	10.2 (8.7, 11.7)*	17.7	2.3 (1.5, 3.0)*	3.6						
Bosnia and Herzegovina	women	14.8 (13.0, 16.6)*	12.0	2.6 (1.8, 3.4)*	5.3	11.5 (9.9, 13.1)*	7.0	2.5 (1.7, 3.3)*	3.4	18.6 (16.7, 20.6)	18.1	1.9 (1.2, 2.6)*	4.2						
Bulgaria	men	6.9 (6.0, 7.9)*	12.4	7.6 (6.6, 8.5)*	3.0	4.9 (4.1, 5.6)*	9.1	6.8 (5.9, 7.7)*	3.2	8.8 (7.8, 9.8)*	18.1	13.9 (12.7, 15.2)*	4.7						
Bulgaria	women	7.9 (6.9, 8.9)*	10.6	8.6 (7.6, 9.6)*	4.1	4.0 (3.3, 4.7)*	6.8	8.2 (7.2, 9.2)*	4.7	8.0 (7.1, 9.0)*	16.2	14.3 (13.0, 15.5)*	7.1						
Croatia	men	9.1 (7.7, 10.6)*	13.3	5.7 (4.5, 6.8)*	3.1	5.5 (4.3, 6.6)*	9.0	4.3 (3.2, 5.3)*	2.8	13.4 (11.6, 15.1)*	18.1	10.0 (8.5, 11.6)*	3.7						
Croatia	women	9.5 (8.0, 10.9)	10.6	8.8 (7.4, 10.2)*	5.1	6.2 (5.0, 7.4)	7.2	6.0 (4.8, 7.2)*	4.1	13.6 (11.8, 15.3)*	18.6	8.0 (6.7, 9.4)*	4.3						
Cyprus	men	8.2 (6.8, 9.6)*	11.4	10.9 (9.3, 12.5)*	6.9	3.3 (2.4, 4.2)*	6.6	8.3 (6.9, 9.7)*	4.7	8.6 (7.1, 10.0)*	12.5	9.8 (8.3, 11.3)*	6.4						
Cyprus	women	9.4 (7.9, 10.9)	8.6	12.6 (10.9, 14.2)	11.3	2.9 (2.1, 3.8)*	5.1	7.5 (6.2, 8.8)	6.7	8.9 (7.4, 10.3)*	13.3	9.8 (8.3, 11.3)*	6.5						
Czechia	men	9.7 (8.2, 11.2)*	13.0	3.9 (2.9, 4.9)	3.0	9.4 (7.9, 10.8)	9.8	3.7 (2.8, 4.7)	3.4	17.0 (15.1, 18.9)	17.8	5.3 (4.1, 6.4)	4.1						
Czechia	women	11.7 (10.1, 13.3)	10.5	6.7 (5.4, 7.9)*	4.5	8.7 (7.3, 10.1)	8.3	4.2 (3.2, 5.2)	4.0	16.0 (14.1, 17.8)	17.6	3.8 (2.8, 4.8)	3.9						
Denmark	men	13.3 (11.6, 15.0)	13.6	4.7 (3.7, 5.8)	4.8	6.1 (4.9, 7.3)	5.8	3.9 (2.9, 4.8)	4.1	15.8 (14.0, 17.7)	15.3	6.0 (4.8, 7.1)	6.8						
Denmark	women	12.2 (10.6, 13.9)	11.0	5.5 (4.4, 6.7)	6.5	6.0 (4.9, 7.2)*	4.8	4.1 (3.1, 5.1)	5.0	13.9 (12.2, 15.6)	13.6	8.4 (7.1, 9.8)	8.6						
Estonia	men	11.3 (9.9, 12.6)*	12.9	3.8 (3.0, 4.6)	4.4	6.2 (5.2, 7.2)*	8.1	3.4 (2.6, 4.2)	3.9	13.5 (12.1, 14.9)	14.3	8.7 (7.5, 9.9)*	6.5						
Estonia	women	10.8 (9.5, 12.1)	9.5	8.0 (6.8, 9.1)*	6.5	5.8 (4.8, 6.8)*	4.8	7.7 (6.5, 8.8)*	6.4	11.3 (9.9, 12.6)	11.5	9.6 (8.4, 10.9)*	11.1						
Finland	men	10.9 (9.3, 12.4)*	13.3	4.7 (3.6, 5.8)	4.3	6.6 (5.4, 7.9)	6.2	3.4 (2.5, 4.3)*	5.1	15.3 (13.5, 17.1)*	13.3	7.8 (6.4, 9.1)	8.4						
Finland	women	13.3 (11.6, 15.1)*	10.9	6.3 (5.0, 7.5)	6.0	5.1 (4.0, 6.2)	4.2	6.1 (4.9, 7.3)	6.5	12.5 (10.8, 14.2)*	9.8	8.0 (6.6, 9.4)*	11.9						
France	men	4.2 (3.2, 5.1)*	10.7	6.6 (5.4, 7.8)	5.9	3.9 (3.0, 4.8)*	6.0	6.5 (5.4, 7.7)*	4.4	14.4 (12.7, 16.0)	15.3	12.4 (10.8, 14.0)*	6.6						
France	women	7.9 (6.7, 9.2)*	9.8	15.3 (13.6, 17.0)*	7.2	3.6 (2.7, 4.4)*	5.4	7.0 (5.8, 8.2)*	5.6	10.5 (9.0, 11.9)*	15.2	7.8 (6.5, 9.0)	7.9						
Germany	men	10.8 (9.2, 12.3)*	12.9	3.9 (2.9, 4.9)	3.9	6.9 (5.6, 8.2)	6.5	3.3 (2.4, 4.2)	3.6	16.3 (14.4, 18.2)	15.9	7.8 (6.4, 9.1)	7.7						
Germany	women	13.0 (11.3, 14.7)	11.6	5.0 (3.9, 6.1)	4.1	6.9 (5.6, 8.1)	6.6	2.7 (1.9, 3.6)	3.3	18.8 (16.8, 20.8)	18.1	4.7 (3.6, 5.8)	5.7						
Greece	men	5.3 (4.2, 6.4)*	11.0	7.9 (6.5, 9.2)*	3.7	4.2 (3.2, 5.2)*	8.2	6.5 (5.3, 7.8)*	3.8	10.8 (9.2, 12.4)*	16.4	14.3 (12.5, 16.1)*	6.4						
Greece	women	5.8 (4.6, 6.9)*	9.1	11.1 (9.5, 12.6)*	5.1	4.3 (3.3, 5.3)*	7.1	9.0 (7.5, 10.4)*	4.6	9.9 (8.4, 11.4)*	18.1	11.0 (9.4, 12.6)*	6.4						
Hungary	men	10.1 (8.8, 11.4)*	13.7	4.8 (3.9, 5.7)*	2.9	7.4 (6.2, 8.5)*	8.8	5.2 (4.2, 6.2)*	3.5	13.7 (12.2, 15.2)*	17.1	6.7 (5.6, 7.8)*	4.0						
Hungary	women	11.4 (10.0, 12.8)	11.5	5.7 (4.6, 6.7)*	4.1	7.0 (5.9, 8.1)	7.4	5.4 (4.4, 6.4)	4.6	15.4 (13.8, 16.9)	16.8	7.3 (6.1, 8.4)*	5.7						
Iceland	men	6.4 (5.1, 7.6)*	15.7	15.5 (13.6, 17.3)*	4.7	2.6 (1.8, 3.4)*	6.9	4.8 (3.7, 5.9)	4.8	4.5 (3.5, 5.6)*	12.6	17.3 (15.4, 19.2)*	7.2						
Iceland	women	7.3 (6.0, 8.7)*	12.2	10.8 (9.3, 12.4)*	6.3	4.5 (3.4, 5.5)	4.0	10.2 (8.7, 11.7)*	6.4	5.1 (3.9, 6.2)*	10.5	11.1 (9.5, 12.7)*	8.8						
Ireland	men	7.2 (5.9, 8.5)*	10.5	9.9 (8.4, 11.4)*	6.6	4.4 (3.4, 5.5)*	6.0	6.7 (5.5, 8.0)	6.4	11.2 (9.6, 12.8)	12.2	10.4 (8.8, 11.9)*	7.8						
Ireland	women	6.7 (5.5, 8.0)*	9.2	10.8 (9.2, 12.4)*	7.8	5.0 (3.9, 6.1)	5.1	9.6 (8.1, 11.1)*	8.0	9.4 (7.9, 10.9)*	11.4	8.6 (7.2, 10.1)	9.0						
Italy	men	6.2 (5.0, 7.4)*	12.5	7.7 (6.4, 9.1)*	2.4	4.9 (3.8, 6.0)*	8.6	5.6 (4.4, 6.7)*	2.1	13.4 (11.6, 15.1)*	20.8	11.2 (9.6, 12.8)*	3.4						
Italy	women	5.5 (4.4, 6.7)*	10.6	9.5 (8.0, 11.0)*	3.6	5.0 (3.9, 6.1)*	7.5	6.6 (5.3, 7.9)*	3.2	13.4 (11.7, 15.1)*	21.3	11.0 (9.4, 12.6)*	4.1						
Latvia	men	9.4 (7.9, 10.9)*	12.2	4.3 (3.3, 5.3)	4.0	6.8 (5.6, 8.1)	7.8	4.8 (3.7, 5.9)*	3.4	11.7 (10.0, 13.3)*	15.9	9.0 (7.6, 10.5)*	5.4						
Latvia	women	10.6 (9.1, 12.2)*	9.0	8.7 (7.3, 10.1)*	6.4	4.8 (3.7, 5.9)	5.1	5.6 (4.4, 6.8)	6.0	10.5 (8.9, 12.0)*	15.2	13.8 (12.1, 15.6)*	9.7						
Lithuania	men	9.9 (8.4, 11.4)*	11.7	4.3 (3.3, 5.3)*	5.8	4.6 (3.6, 5.7)	5.3	4.3 (3.2, 5.3)	5.1	10.1 (8.5, 11.6)*	15.9	12.8 (11.1, 14.5)*	5.8						
Lithuania	women	11.2 (9.6, 12.8)*	8.3	8.2 (6.8, 9.6)	7.7	3.5 (2.6, 4.4)	3.7	7.4 (6.1, 8.8)*	5.9	8.8 (7.4, 10.2)*	14.8	14.9 (13.1, 16.7)*	10.0						
Luxembourg	men	9.4 (8.0, 10.9)	10.6	7.2 (5.9, 8.5)	7.3	6.5 (5.3, 7.8)	5.3	5.6 (4.4, 6.8)	6.4	12.6 (11.0, 14.3)	13.4	8.6 (7.2, 10.1)	7.9						
Luxembourg	women	10.4 (8.9, 12.0)	8.9	9.0 (7.5, 10.4)	8.6	3.7 (2.8, 4.7)*	5.0	7.2 (5.9, 8.5)	6.5	11.7 (10.1, 13.3)*	13.7	8.0 (6.7, 9.4)*	6.5						
Malta	men	12.8 (11.1, 14.5)*	14.8	8.0 (6.6, 9.4)*	6.4	6.2 (5.0, 7.5)*	8.9	6.1 (4.9, 7.3)*	4.1	11.9 (10.2, 13.5)*	14.9	6.0 (4.8, 7.2)*	4.0						
Malta	women	12.1 (10.5, 13.8)	11.3	6.4 (5.2, 7.7)	6.9	5.3 (4.2, 6.4)*	6.6	5.6 (4.4, 6.7)*	4.4	12.2 (10.6, 13.9)*	14.2	7.3 (6.0, 8.6)*	3.3						
Moldova	men	12.5 (10.8, 14.1)	12.2	4.7 (3.6, 5.7)	4.6	7.9 (6.6, 9.3)	7.6	6.1 (4.9, 7.3)*	3.7	10.6 (9.1, 12.2)*	16.4	5.2 (4.1, 6.4)	4.2						
Moldova	women	17.7 (15.8, 19.7)*	12.0	7.1 (5.8, 8.4)*	4.5	7.3 (6.0, 8.6)	7.7	6.7 (5.4, 8.0)*	3.8	9.8 (8.3, 11.3)*	18.6	4.3 (3.3, 5.4)	4.8						
Netherlands	men	5.4 (4.2, 6.5)*	12.1	11.3 (9.7, 13.0)*	6.0	3.5 (2.5, 4.4)*	5.3	6.2 (5.0, 7.5)*	4.4	10.7 (9.2, 12.3)*	13.9	12.8 (11.1, 14.5)*	8.5						
Netherlands	women	5.3 (4.1, 6.4)*	10.3	13.0 (11.3, 14.7)*	7.3	3.7 (2.7, 4.6)*	4.6	5.6 (4.5, 6.8)	5.0	13.6 (11.8, 15.3)	15.1	8.9 (7.4, 10.3)	7.6						
Norway	men	7.8 (6.5, 9.2)*	13.2	5.8 (4.6, 7.0)	5.6	4.7 (3.6, 5.8)*	6.3	4.8 (3.7, 5.9)	4.7	13.1 (11.3, 14.8)	13.7	13.7 (12.0, 15.4)*	7.9						

Country	Sex	Age: 18-34 years				Age: 35-44 years				Age: 45-64 years			
		Low/mid SES		High SES		Low/mid SES		High SES		Low/mid SES		High SES	
		DEEP SEAS	Stat	DEEP SEAS	Stat	DEEP SEAS	Stat	DEEP SEAS	Stat	DEEP SEAS	Stat	DEEP SEAS	Stat
Norway	women	12.7 (11.0, 14.4)*	9.8	10.5 (9.0, 12.1)*	7.9	5.1 (4.0, 6.2)	4.2	6.5 (5.2, 7.7)	6.1	8.1 (6.7, 9.5)*	11.9	7.3 (6.0, 8.6)*	8.8
Poland	men	6.2 (5.0, 7.4)*	12.8	3.5 (2.6, 4.5)	3.9	5.6 (4.5, 6.7)*	8.1	6.4 (5.1, 7.6)*	4.7	16.5 (14.7, 18.3)	16.9	9.8 (8.3, 11.3)*	3.6
Poland	women	13.1 (11.5, 14.8)*	9.7	11.1 (9.5, 12.7)*	6.2	5.6 (4.5, 6.8)	6.2	7.4 (6.1, 8.7)	6.3	7.9 (6.6, 9.3)*	16.1	6.8 (5.5, 8.0)*	5.4
Portugal	men	5.1 (4.0, 6.2)*	11.3	6.6 (5.4, 7.9)*	3.7	5.2 (4.1, 6.3)*	8.2	6.6 (5.3, 7.8)*	2.7	14.0 (12.2, 15.8)*	18.3	9.5 (8.0, 11.0)*	3.9
Portugal	women	5.1 (3.9, 6.2)*	9.4	13.2 (11.5, 14.9)*	5.7	3.8 (2.8, 4.7)*	7.0	8.5 (7.1, 9.9)*	4.9	11.5 (9.8, 13.1)*	19.2	11.0 (9.5, 12.6)*	5.8
Romania	men	5.7 (4.5, 6.9)*	14.0	8.2 (6.8, 9.6)*	2.5	4.6 (3.6, 5.7)*	9.5	7.3 (6.0, 8.7)*	2.7	10.0 (8.4, 11.5)*	19.3	13.2 (11.5, 14.9)*	2.8
Romania	women	6.1 (4.9, 7.3)*	12.3	12.0 (10.3, 13.6)*	3.1	4.3 (3.3, 5.4)*	8.4	7.7 (6.4, 9.1)*	3.1	8.1 (6.7, 9.5)*	19.5	12.8 (11.1, 14.5)*	2.8
Serbia	men	9.8 (8.3, 11.3)*	13.5	6.1 (4.9, 7.3)*	3.0	7.3 (6.0, 8.6)*	9.1	3.0 (2.1, 3.8)	2.7	15.9 (14.1, 17.8)*	18.0	6.9 (5.6, 8.2)*	3.6
Serbia	women	8.6 (7.2, 10.1)*	11.3	8.1 (6.7, 9.5)*	4.3	6.3 (5.1, 7.5)*	7.6	6.2 (5.0, 7.4)*	3.8	14.8 (13.0, 16.6)*	18.5	7.0 (5.7, 8.3)*	4.5
Slovakia	men	11.1 (9.5, 12.7)*	13.4	4.4 (3.4, 5.4)	3.7	8.6 (7.2, 10.0)	9.9	3.8 (2.9, 4.8)	3.1	13.7 (12.0, 15.5)*	16.9	7.3 (5.9, 8.6)*	3.5
Slovakia	women	11.4 (9.8, 13.0)	10.2	7.0 (5.7, 8.3)	6.1	8.4 (7.0, 9.8)	8.0	4.1 (3.1, 5.1)	4.2	14.1 (12.4, 15.9)*	16.6	5.9 (4.7, 7.1)*	4.4
Slovenia	men	9.4 (8.0, 10.9)*	11.8	3.8 (2.8, 4.7)	4.0	8.6 (7.2, 10.0)	8.0	3.3 (2.4, 4.2)*	4.2	18.9 (16.9, 20.9)	18.3	6.0 (4.8, 7.2)	5.7
Slovenia	women	10.6 (9.1, 12.2)*	8.3	6.1 (4.9, 7.3)	5.4	7.3 (6.0, 8.6)*	5.0	4.8 (3.7, 5.9)*	6.0	14.8 (13.0, 16.6)	15.7	6.4 (5.1, 7.6)	7.6
Spain	men	4.2 (3.2, 5.2)*	10.1	6.8 (5.5, 8.0)*	4.5	5.2 (4.1, 6.3)*	7.2	8.4 (7.1, 9.8)*	4.8	13.1 (11.4, 14.7)*	15.5	11.2 (9.7, 12.7)*	7.7
Spain	women	6.5 (5.3, 7.7)*	8.4	11.4 (9.9, 13.0)*	5.9	4.9 (3.8, 5.9)*	6.0	6.5 (5.3, 7.7)	6.1	11.2 (9.7, 12.7)*	15.5	10.6 (9.1, 12.1)*	8.2
Spain-Catalonia	men	6.2 (5.0, 7.4)*	10.7	7.1 (5.8, 8.4)*	3.2	5.6 (4.4, 6.7)*	10.1	5.6 (4.4, 6.7)*	3.6	12.9 (11.2, 14.6)*	17.4	11.5 (9.9, 13.1)*	5.2
Spain-Catalonia	women	5.0 (3.9, 6.1)*	8.8	10.6 (9.1, 12.2)*	4.9	4.4 (3.4, 5.5)*	8.0	9.5 (8.0, 10.9)*	5.2	12.3 (10.7, 14.0)*	16.7	9.2 (7.8, 10.7)*	6.2
Sweden	men	11.8 (10.3, 13.4)	13.3	5.5 (4.4, 6.6)	5.8	5.0 (3.9, 6.0)	5.7	4.9 (3.9, 6.0)	5.1	13.5 (11.8, 15.1)	14.8	9.2 (7.8, 10.7)*	6.4
Sweden	women	12.5 (10.9, 14.1)*	10.0	7.1 (5.9, 8.4)	7.8	5.1 (4.0, 6.2)	4.1	6.0 (4.9, 7.2)	6.2	11.1 (9.5, 12.6)	11.5	8.2 (6.9, 9.6)	9.3
United Kingdom	men	7.0 (5.7, 8.3)*	11.4	8.6 (7.2, 10.1)*	6.7	4.4 (3.4, 5.5)	5.5	4.4 (3.4, 5.4)	5.0	15.8 (14.0, 17.7)*	13.1	8.7 (7.3, 10.1)	8.0
United Kingdom	women	9.5 (8.0, 11.0)	10.1	10.9 (9.3, 12.4)*	7.6	5.1 (4.0, 6.2)	4.9	7.1 (5.8, 8.4)	5.8	10.3 (8.7, 11.8)*	13.1	8.2 (6.8, 9.6)	8.9
Population-weighted average	men	7.3 (6.2, 8.3)*	12.0 (11.6, 12.5)	6.4 (5.7, 7.1)*	4.5 (4.0, 5.0)	5.4 (4.9, 6.0)*	7.1 (6.6, 7.6)	5.4 (4.8, 6.0)*	3.9 (3.6, 4.3)	14.3 (13.4, 15.2)*	16.2 (15.4, 17.0)	10 (9.1, 10.8)*	6.1 (5.4, 6.8)
Population-weighted average	women	9.2 (8.1, 10.3)	10.3 (9.9, 10.6)	9.9 (8.7, 11.1)*	5.7 (5.1, 6.3)	5.3 (4.8, 5.8)	6.2 (5.8, 6.6)	6.1 (5.4, 6.7)*	4.8 (4.4, 5.3)	12.5 (11.3, 13.8)*	16.5 (15.5, 17.5)	8.2 (7.3, 9.1)	6.6 (5.9, 7.3)

Note: Stat: National population statistic (2020 data (Eurostat, 2020), for United Kingdom: 2019; Bosnia and Herzegovina: sex-age distribution obtained from (Agencija za statistiku Bosne i Hercegovine, 2021), for the sex- and age-specific education distribution, the mean of neighbouring countries Croatia, Montenegro, and Serbia was used; Moldova: educational distribution (2004 census) transferred to sex- and age-specific population distribution in 2020 (National Bureau of Statistics of the Republic of Moldova, 2022); Spain-Catalonia: (Statistical Institute of Catalonia, 2022), in Spain-Catalonia, youngest age group in the population data included adults aged 20 to 34 years. 95% Confidence intervals are given in brackets. Weighted data. Low/mid SES (sociodemographic status): no, primary or secondary education, high SES: higher education. *population estimate outside the 95% confidence interval of the sample estimate, indicating under- or overrepresentation of the relevant group.

Table A3

DEEP SEAS 2021: Weighted prevalence of past-year alcohol use and mean daily drinking levels by study location.

Study location	Prevalence of past-year alcohol use (n = 55,949)				Mean daily drinking levels in grams pure alcohol among past-year alcohol users (n = 49,081)			
	Men		Women		Men		Women	
	Low/mid SES	High SES	Low/mid SES	High SES	Low/mid SES	High SES	Low/mid SES	High SES
Austria	93.3 (91.8, 94.7)	92.8 (90.1, 95.5)	90.9 (89.2, 92.5)	91.2 (88.4, 94.1)	17.64 (15.76, 19.53)	17.35 (13.71, 20.99)	6.72 (5.77, 7.67)	8.43 (6.9, 9.95)
Belgium	93.6 (91.1, 96.2)	94.2 (91.9, 96.5)	83.7 (79.7, 87.7)	86.1 (82.9, 89.4)	31.96 (25.82, 38.1)	30.59 (25.69, 35.49)	15.15 (11.51, 18.79)	17.64 (13.94, 21.33)
Bosnia and Herzegovina	68.9 (65.1, 72.7)	74.4 (67.2, 81.5)	51.5 (47.7, 55.3)	70.3 (61.5, 79.2)	8.87 (7.39, 10.35)	9.85 (6.88, 12.82)	5.6 (4.29, 6.91)	4.61 (2.23, 6.99)
Bulgaria	99.0 (98.1, 99.8)	97.9 (97.0, 98.9)	94.9 (93.2, 96.7)	96.7 (95.5, 97.8)	49.43 (43.64, 55.22)	51.16 (45.92, 56.4)	20.48 (16.34, 24.63)	22.05 (19.38, 24.71)
Croatia	93.8 (91.5, 96.1)	97.1 (95.2, 99.0)	94.9 (92.9, 97.0)	95.4 (93.2, 97.6)	29.59 (24.72, 34.46)	24.68 (20.00, 29.36)	12.85 (9.39, 16.3)	11.07 (9.38, 12.76)
Cyprus	89.8 (86.4, 93.3)	95.4 (93.4, 97.3)	87.3 (83.6, 91.0)	91.5 (88.9, 94.1)	5.55 (4.21, 6.9)	4.82 (3.80, 5.83)	5.88 (4.57, 7.19)	3.74 (3.02, 4.45)
Czechia	95.1 (93.3, 96.9)	93.1 (89.5, 96.6)	93.3 (91.1, 95.4)	96.0 (93.4, 98.6)	31.96 (27.65, 36.26)	29.9 (22.53, 37.28)	16.95 (13.69, 20.21)	14.47 (10.77, 18.18)
Denmark	93.9 (92.0, 95.9)	95.8 (93.2, 98.4)	87.6 (84.7, 90.5)	91.1 (87.7, 94.4)	33.02 (27.2, 38.84)	31.88 (23.17, 40.59)	11 (8.23, 13.77)	15.73 (10.35, 21.12)
Estonia	86.3 (83.7, 89.0)	87.9 (84.3, 91.5)	88.8 (86.3, 91.3)	88.6 (86.0, 91.2)	29.68 (25.11, 34.25)	27.16 (21.2, 33.12)	11.73 (9.18, 14.22)	8.53 (6.89, 10.17)
Finland	94.8 (92.8, 96.7)	93.8 (90.7, 96.8)	88.0 (85.0, 91.0)	94.5 (92.0, 97.1)	30.91 (26.61, 35.2)	26.56 (18.97, 34.15)	13.59 (11.35, 15.82)	8.78 (6.03, 11.53)
France	91.8 (89.1, 94.6)	93.6 (91.3, 95.9)	83.3 (79.6, 87.1)	90.5 (87.9, 93.0)	21.3 (17.43, 25.18)	14.83 (12.73, 16.93)	9.29 (6.31, 12.26)	10.24 (7.91, 12.57)
Germany	89.2 (86.4, 91.9)	95.1 (92.2, 97.9)	82.3 (79.2, 85.4)	87.1 (82.3, 91.9)	19.99 (17.27, 22.71)	18.92 (15.1, 22.74)	8.64 (6.96, 10.31)	11.77 (5.49, 18.04)
Greece	97.9 (96.2, 99.5)	99.3 (98.5, 100.0)	98.0 (96.5, 99.6)	98.0 (96.7, 99.2)	20.63 (16.92, 24.35)	18.04 (15.74, 20.34)	12.56 (8.81, 16.3)	14.88 (12.04, 17.72)
Hungary	93.7 (91.8, 95.6)	96.7 (94.7, 98.6)	91.3 (89.2, 93.4)	93.6 (91.1, 96.1)	20.05 (17.16, 22.95)	15.85 (12.93, 18.77)	8.41 (6.28, 10.53)	7.13 (5.69, 8.57)
Iceland	87.7 (83.2, 92.3)	91.0 (88.6, 93.3)	87.6 (83.5, 91.7)	88.8 (85.9, 91.6)	9.69 (6.97, 12.42)	5.05 (4.21, 5.90)	7.45 (5.26, 9.64)	4.31 (3.45, 5.17)
Ireland	91.5 (88.4, 94.6)	92.4 (89.7, 95.1)	92.4 (89.6, 95.3)	92.7 (90.4, 95.1)	41.72 (34.36, 49.07)	44.00 (36.29, 51.72)	17.88 (14.04, 21.73)	16.14 (13.93, 18.35)
Italy	97.0 (95.3, 98.8)	97.3 (95.7, 99.0)	93.8 (91.3, 96.4)	96.8 (95.0, 98.5)	33.03 (27.03, 39.03)	29.16 (24.56, 33.76)	17.87 (14.27, 21.48)	17.67 (14.06, 21.28)
Latvia	90.6 (87.7, 93.4)	96.1 (93.7, 98.5)	89.9 (86.9, 92.8)	94.6 (92.5, 96.7)	26.55 (22.15, 30.94)	22.1 (16.95, 27.26)	11.13 (7.6, 14.65)	7.83 (6.35, 9.3)
Lithuania	90.7 (87.7, 93.7)	95.1 (92.7, 97.5)	92.8 (90.2, 95.5)	93.9 (91.8, 96.1)	28 (22.34, 33.65)	23.18 (18.35, 28.02)	7.91 (5.83, 9.99)	8.77 (6.96, 10.58)
Luxembourg	76.2 (72.2, 80.3)	82.1 (77.9, 86.3)	74.2 (69.8, 78.5)	66.2 (61.3, 71.1)	12.68 (9.85, 15.51)	9.79 (7.96, 11.63)	12.39 (9.09, 15.69)	10.63 (8.02, 13.24)
Malta	83.9 (80.5, 87.2)	86.7 (82.9, 90.6)	77.0 (73.1, 80.9)	81.4 (76.9, 85.9)	13.28 (9.56, 16.99)	9.38 (6.20, 12.56)	14.36 (9.36, 19.35)	6.16 (4.23, 8.09)
Moldova	78.3 (74.4, 82.1)	87.6 (83.6, 91.6)	74.1 (70.2, 77.9)	81.2 (76.6, 85.7)	6.68 (4.71, 8.65)	5.28 (3.20, 7.37)	10.38 (7.2, 13.56)	5.68 (4.41, 6.94)
Netherlands	90.5 (87.1, 93.9)	92.6 (90.1, 95.0)	77.7 (73.2, 82.1)	86.0 (82.6, 89.3)	26.52 (20.68, 32.35)	23.62 (19.62, 27.62)	8.45 (7.01, 9.89)	16.24 (12.26, 20.21)
Norway	89.1 (86.0, 92.3)	91.0 (88.0, 93.9)	84.2 (80.5, 87.8)	88.4 (85.1, 91.7)	18.61 (14.39, 22.84)	17.00 (13.26, 20.73)	6.85 (5.37, 8.33)	7.71 (5.46, 9.96)
Poland	96.0 (94.1, 97.8)	97.1 (95.2, 99.0)	98.4 (97.2, 99.6)	95.7 (93.7, 97.7)	39.71 (34.38, 45.04)	34.74 (28.73, 40.75)	15.11 (11.96, 18.26)	16.62 (13.77, 19.48)
Portugal	94.6 (92.3, 96.9)	97.7 (96.1, 99.3)	94.0 (91.2, 96.7)	93.5 (91.3, 95.7)	27.79 (23.15, 32.43)	23.71 (19.65, 27.77)	9.13 (6.79, 11.46)	10.1 (8, 12.19)
Romania	94.0 (91.3, 96.7)	98.5 (97.4, 99.7)	94.7 (92.1, 97.4)	97.2 (95.8, 98.7)	40.71 (33.69, 47.74)	37.05 (31.62, 42.47)	7.87 (5.81, 9.93)	12.97 (9.74, 16.19)
Serbia	95.1 (93.2, 97.0)	97.8 (95.9, 99.7)	94.2 (92.1, 96.4)	94.6 (92.2, 97.1)	23.03 (18.99, 27.07)	28.22 (21.09, 35.35)	8.07 (6.12, 10.02)	9.03 (7.03, 11.03)
Slovakia	93.8 (91.7, 95.9)	96.4 (94.0, 98.8)	94.7 (92.7, 96.6)	96.6 (94.3, 98.8)	29.97 (25.55, 34.38)	30.41 (21.96, 38.87)	8.29 (6.45, 10.14)	8.97 (6.81, 11.13)
Slovenia	90.7 (88.2, 93.1)	95.0 (92.0, 98.1)	87.4 (84.4, 90.3)	91.5 (88.1, 94.9)	15.34 (12.64, 18.04)	11.53 (9.20, 13.87)	4.61 (3.53, 5.7)	3.72 (2.7, 4.75)
Spain	97.2 (95.6, 98.9)	97.9 (96.5, 99.3)	92.8 (90.1, 95.4)	95.5 (93.6, 97.4)	38.25 (32.33, 44.16)	43.18 (36.97, 49.39)	22.55 (18.93, 26.18)	23.14 (18.62, 27.66)
Spain-Catalonia	92.5 (89.7, 95.2)	94.5 (92.1, 96.9)	84.6 (80.8, 88.5)	89.7 (87.0, 92.5)	31.83 (24.7, 38.96)	31.48 (24.64, 38.33)	12.25 (9.55, 14.95)	12.94 (10.24, 15.64)
Sweden	87.8 (84.9, 90.7)	94.6 (92.1, 97.1)	85.9 (82.7, 89.0)	90.1 (87.0, 93.2)	24.13 (20.18, 28.07)	26.94 (20.88, 33.00)	11.36 (8.42, 14.3)	11.66 (8.29, 15.03)
United Kingdom	88.8 (85.7, 91.8)	90.5 (87.3, 93.7)	87.3 (83.9, 90.7)	87.0 (83.6, 90.3)	42.11 (35.52, 48.71)	36.64 (30.30, 42.99)	21.72 (17.09, 26.35)	22.67 (18.16, 27.19)
Population-weighted average	92.8 (91.2, 94.4)	94.5 (93.3, 95.6)	88.7 (86.2, 91.1)	91.2 (89.6, 92.7)	30.06 (26.52, 33.61)	27.64 (23.81, 31.48)	13.57 (11.51, 15.62)	15.46 (13.09, 17.83)

Note: 95% Confidence intervals are given in brackets. Weighted data. Low/mid SES (sociodemographic status): no, primary or secondary education, high SES: higher education.

Table A4

DEEP SEAS 2021: Weighted prevalence of monthly risky single-occasion drinking and high-risk alcohol use by study location.

Study location	Prevalence of monthly risky single-occasion drinking among past-year alcohol users (n = 49,081)				Prevalence of high-risk alcohol use among past-year alcohol users (n = 49,081)			
	Men		Women		Men		Women	
	Low/mid SES	High SES	Low/mid SES	High SES	Low/mid SES	High SES	Low/mid SES	High SES
Austria	35.6 (32.7, 38.4)	32.7 (27.6, 37.9)	25.2 (22.6, 27.9)	27 (22.3, 31.7)	6.7 (5.2, 8.2)	6.7 (4, 9.5)	2.5 (1.5, 3.4)	4.3 (2.2, 6.5)
Belgium	43.4 (37.9, 48.9)	44.6 (39.5, 49.7)	34.9 (29.2, 40.7)	42.5 (37.4, 47.7)	15.7 (11.7, 19.7)	15.1 (11.4, 18.8)	11.1 (7.3, 14.9)	9.9 (6.8, 13)
Bosnia and Herzegovina	13.2 (10, 16.4)	13.2 (6.9, 19.6)	4.8 (2.6, 7)	5.7 (0.3, 11.2)	2.2 (0.8, 3.6)	3.9 (0.3, 7.5)	1.3 (0.1, 2.5)	1 (-1.3, 3.4)
Bulgaria	61.4 (57.3, 65.4)	65.4 (62.1, 68.8)	38.6 (34.4, 42.8)	45.2 (41.8, 48.5)	27.1 (23.4, 30.8)	23.1 (20.1, 26)	13.3 (10.4, 16.3)	16.2 (13.7, 18.7)
Croatia	44.5 (39.5, 49.5)	36.2 (30.7, 41.8)	22.7 (18.6, 26.8)	28.8 (23.9, 33.8)	11.1 (7.9, 14.2)	8.6 (5.3, 11.8)	6.1 (3.7, 8.4)	5 (2.6, 7.3)
Cyprus	10.3 (6.6, 13.9)	5 (2.9, 7.2)	10.9 (7.2, 14.7)	5.8 (3.5, 8.1)	0.3 (-0.4, 1.1)	0.9 (0, 1.9)	3 (1, 5)	1.1 (0.1, 2.2)
Czechia	52.3 (48, 56.6)	51.8 (44.5, 59.1)	41.2 (36.8, 45.6)	41.9 (35, 48.8)	13.4 (10.4, 16.3)	10 (5.6, 14.4)	10.5 (7.8, 13.3)	7.3 (3.7, 10.9)
Denmark	40 (35.6, 44.4)	40.6 (33.8, 47.4)	22.1 (18.1, 26.2)	20 (15, 25.1)	14.7 (11.6, 17.9)	13.8 (9.1, 18.6)	6.4 (4, 8.8)	8 (4.6, 11.4)
Estonia	50.5 (45.9, 55.2)	43.4 (37.4, 49.5)	29.2 (25.2, 33.1)	29.9 (25.7, 34)	13.2 (10, 16.3)	12.2 (8.2, 16.2)	5.6 (3.6, 7.6)	4 (2.3, 5.8)
Finland	52.2 (47.6, 56.8)	43.4 (36.8, 50)	34.7 (30, 39.4)	26.2 (21, 31.4)	15 (11.8, 18.3)	8.6 (4.9, 12.4)	9.5 (6.6, 12.4)	2.3 (0.5, 4)
France	30.9 (26, 35.8)	25.5 (21.2, 29.8)	24.1 (19.2, 29)	21.4 (17.7, 25.2)	7.2 (4.5, 10)	3.8 (1.9, 5.7)	5.2 (2.7, 7.7)	6.6 (4.3, 8.9)
Germany	41 (36.4, 45.6)	35.8 (29.2, 42.4)	26 (22, 30)	27.6 (20.7, 34.5)	8.5 (5.9, 11.2)	6.7 (3.3, 10.2)	4.2 (2.3, 6)	6.3 (2.6, 10.1)
Greece	53.1 (47.3, 58.9)	43.5 (38.7, 48.4)	36.4 (30.6, 42.2)	45.1 (40.5, 49.8)	8 (4.8, 11.1)	5.8 (3.5, 8.1)	4.8 (2.2, 7.4)	6.7 (4.4, 9.1)
Hungary	43.1 (39.1, 47.2)	35.3 (30, 40.5)	22 (18.7, 25.3)	25.8 (21.1, 30.5)	7.2 (5.1, 9.4)	4.7 (2.4, 7)	4 (2.5, 5.6)	2.6 (0.9, 4.3)
Iceland	19.8 (13.7, 26)	20.4 (16.8, 24)	15.4 (10.5, 20.3)	10.5 (7.5, 13.6)	4.4 (1.2, 7.5)	0.5 (-0.1, 1.1)	4.9 (1.9, 7.8)	1.1 (0.1, 2.1)
Ireland	61.1 (55.3, 66.9)	58.2 (53, 63.5)	43.5 (37.8, 49.2)	44 (39.3, 48.8)	20.5 (15.7, 25.2)	19.1 (14.9, 23.3)	9.2 (5.9, 12.6)	8.7 (6, 11.5)
Italy	42 (36.9, 47.1)	43.9 (38.8, 49.1)	43 (37.6, 48.4)	35.7 (30.9, 40.5)	12.8 (9.3, 16.2)	12.8 (9.3, 16.2)	12.9 (9.2, 16.5)	9.8 (6.8, 12.8)
Latvia	46 (40.8, 51.2)	45.6 (39.4, 51.9)	24.8 (20.3, 29.3)	29.2 (24.7, 33.7)	13.3 (9.8, 16.8)	9 (5.5, 12.6)	5.4 (3, 7.8)	4 (2.1, 5.9)
Lithuania	45.7 (40.1, 51.2)	41.8 (36.1, 47.5)	26.8 (21.9, 31.6)	31.3 (26.9, 35.7)	15.1 (11.1, 19.1)	9 (5.7, 12.4)	3.8 (1.7, 6)	4.1 (2.2, 6)
Luxembourg	14.3 (10.4, 18.1)	9.6 (6, 13.1)	16.8 (12.4, 21.3)	9.4 (5.7, 13.2)	3.9 (1.8, 6.1)	2.2 (0.4, 3.9)	6.2 (3.4, 9.1)	5.6 (2.7, 8.5)
Malta	23.1 (18.8, 27.5)	23.7 (18.4, 29)	16.2 (12.1, 20.2)	20.2 (14.9, 25.5)	4.1 (2.1, 6.2)	1.2 (-0.2, 2.5)	7.6 (4.7, 10.5)	2.1 (0.2, 3.9)
Moldova	15.4 (11.5, 19.2)	11.6 (7.5, 15.7)	13.9 (10.4, 17.5)	11.7 (7.5, 15.8)	1.5 (0.2, 2.8)	0.8 (-0.3, 2)	4.6 (2.5, 6.7)	2.2 (0.3, 4.1)
Netherlands	54.2 (48.1, 60.4)	49.7 (44.9, 54.6)	38.3 (32.1, 44.4)	44.5 (39.3, 49.8)	11.8 (7.8, 15.8)	7.6 (5, 10.2)	2.4 (0.5, 4.3)	8.4 (5.5, 11.4)
Norway	38.7 (33.4, 44)	33.9 (28.7, 39)	28.6 (23.7, 33.6)	28.1 (23.1, 33)	6.9 (4.2, 9.6)	5.9 (3.4, 8.5)	4.8 (2.4, 7.1)	2.8 (1, 4.6)
Poland	60.7 (55.8, 65.5)	64.2 (58.6, 69.8)	43.4 (38.5, 48.2)	49.4 (44.3, 54.5)	18.4 (14.5, 22.2)	14.9 (10.7, 19.1)	8.1 (5.4, 10.8)	10.2 (7.2, 13.3)
Portugal	40 (34.8, 45.2)	29.8 (24.9, 34.7)	22.8 (17.8, 27.7)	23.3 (19.4, 27.3)	12.3 (8.8, 15.8)	9.7 (6.5, 12.8)	4.6 (2.2, 7.1)	4.6 (2.7, 6.5)
Romania	48.9 (43, 54.9)	48.8 (44, 53.7)	23.7 (18.5, 28.9)	26.5 (22.5, 30.5)	20.2 (15.4, 25)	18.1 (14.3, 21.8)	5 (2.3, 7.7)	6.9 (4.6, 9.2)
Serbia	37.6 (33.2, 42.1)	44.2 (37.7, 50.7)	26 (21.7, 30.2)	28 (23, 33)	8.6 (6, 11.2)	11.4 (7.2, 15.5)	4.8 (2.8, 6.9)	5.3 (2.8, 7.8)
Slovakia	53.1 (48.5, 57.8)	47 (40.3, 53.7)	30.1 (25.8, 34.3)	33.5 (27.5, 39.6)	12.6 (9.5, 15.7)	11.5 (7.2, 15.8)	3.1 (1.5, 4.8)	4.2 (1.6, 6.8)
Slovenia	32 (27.9, 36.1)	28 (21.4, 34.5)	17 (13.4, 20.6)	14.2 (9.8, 18.7)	5.7 (3.7, 7.8)	3.2 (0.6, 5.8)	1.4 (0.3, 2.5)	0.9 (-0.3, 2.2)
Spain	42.6 (37.4, 47.7)	43.9 (39, 48.8)	38.5 (33.2, 43.7)	41.2 (36.6, 45.8)	18.1 (14.1, 22.1)	22.1 (18, 26.2)	16.6 (12.5, 20.6)	13.7 (10.5, 16.9)
Spain-Catalonia	33.5 (28.3, 38.7)	27.4 (22.5, 32.2)	24.8 (19.7, 29.8)	24 (19.9, 28.2)	13.9 (10.1, 17.8)	13.7 (10, 17.5)	8.1 (4.9, 11.3)	8.4 (5.7, 11.2)
Sweden	34.2 (29.7, 38.8)	39.5 (33.9, 45.1)	25.1 (20.8, 29.4)	21.3 (16.7, 25.8)	10.7 (7.8, 13.7)	10.5 (6.9, 14)	5.9 (3.6, 8.2)	5.1 (2.6, 7.5)
United Kingdom	50 (44.7, 55.2)	44.2 (38.4, 49.9)	39.6 (34.1, 45)	41.1 (35.8, 46.4)	20.9 (16.6, 25.2)	17.6 (13.1, 22)	14.8 (10.9, 18.8)	14.2 (10.5, 18)
Population-weighted average	43.7 (40.3, 47.2)	40.6 (36.8, 44.5)	32.5 (28.9, 36.0)	33.8 (29.8, 37.8)	13.2 (11.2, 15.2)	11.7 (9.4, 14.1)	8.4 (6.6, 10.2)	8.9 (7.2, 10.6)

Note: 95% Confidence intervals are given in brackets. Weighted data. Low/mid SES (sociodemographic status): no, primary or secondary education, high SES: higher education.

Table A5

Weighted prevalence of past-year alcohol users reporting either a decrease or increase in alcohol use during the COVID-19 pandemic by study location.

Study location	Sample size*	Decrease in alcohol use				Increase in alcohol use			
		Men		Women		Men		Women	
		Low/mid SES	High SES	Low/mid SES	High SES	Low/mid SES	High SES	Low/mid SES	High SES
Austria	2,667	19.8 (17.3, 22.2)	21.9 (17.3, 26.6)	15.3 (13.0, 17.5)	24.5 (19.8, 29.2)	19.1 (16.7, 21.5)	20.9 (16.4, 25.5)	13.0 (10.9, 15.0)	17.6 (13.4, 21.8)
Belgium	1,262	30.3 (25.2, 35.5)	24.0 (19.5, 28.4)	17.3 (12.6, 21.9)	26.4 (21.7, 31.1)	17.6 (13.4, 21.9)	26.4 (21.8, 30.9)	14.4 (10.1, 18.7)	19.0 (14.8, 23.2)
Bosnia and Herzegovina	950	6.8 (4.4, 9.2)	11.1 (5.2, 17.0)	7.1 (4.4, 9.8)	16.5 (7.5, 25.6)	3.7 (1.9, 5.6)	1.7 (-0.7, 4.1)	5.6 (3.2, 8.0)	6.4 (0.5, 12.4)
Bulgaria	2,544	14.8 (11.7, 17.9)	17.0 (14.3, 19.7)	11.0 (8.1, 13.8)	13.2 (10.9, 15.6)	17.3 (14.1, 20.6)	19.4 (16.5, 22.2)	7.2 (4.8, 9.5)	15.7 (13.2, 18.2)
Croatia	1,337	24.2 (19.7, 28.6)	27.4 (22.1, 32.7)	14.6 (11.1, 18.2)	19.6 (15.2, 24.1)	11.1 (7.8, 14.3)	12.0 (8.2, 15.9)	7.6 (5.0, 10.3)	11.6 (8.0, 15.2)
Cyprus	1,317	32.0 (26.3, 37.8)	18.4 (14.6, 22.2)	27.7 (22.3, 33.2)	15.3 (11.7, 18.8)	8.0 (4.6, 11.3)	3.5 (1.7, 5.4)	7.5 (4.3, 10.8)	4.1 (2.1, 6.0)
Czechia	1,334	27.6 (23.7, 31.5)	26.5 (20.0, 33.0)	19.0 (15.4, 22.6)	18.5 (13.0, 24.0)	15.1 (11.9, 18.3)	18.4 (12.7, 24.1)	15.1 (11.8, 18.4)	20.5 (14.7, 26.2)
Denmark	1,265	22.6 (18.7, 26.4)	24.1 (18.1, 30.2)	24.2 (19.9, 28.5)	25.2 (19.6, 30.8)	19.3 (15.7, 23.0)	19.4 (13.8, 25.0)	9.4 (6.4, 12.3)	17.2 (12.3, 22.1)
Estonia	1,600	20.0 (16.2, 23.9)	22.6 (17.3, 27.8)	16.9 (13.5, 20.3)	17.3 (13.8, 20.8)	16.8 (13.2, 20.4)	16.3 (11.7, 20.9)	9.1 (6.5, 11.8)	12.8 (9.7, 15.9)
Finland	1,288	20.7 (16.9, 24.5)	20.5 (15.0, 25.9)	25.8 (21.3, 30.2)	24.6 (19.4, 29.8)	20.4 (16.6, 24.2)	15.7 (10.8, 20.6)	13.3 (9.9, 16.8)	13.3 (9.2, 17.4)
France	1,446	20.7 (16.3, 25.1)	22.4 (18.3, 26.6)	14.4 (10.2, 18.5)	20.1 (16.4, 23.9)	20.6 (16.2, 24.9)	18.6 (14.7, 22.4)	14.8 (10.7, 19.0)	18.3 (14.7, 21.9)
Germany	1,235	18.7 (15.0, 22.4)	17.7 (12.4, 23.0)	15.7 (12.3, 19.1)	17.3 (11.4, 23.3)	19.9 (16.1, 23.7)	19.2 (13.7, 24.6)	17.1 (13.6, 20.6)	13.8 (8.3, 19.2)
Greece	1,374	32.3 (26.8, 37.8)	30.1 (25.6, 34.6)	26.8 (21.4, 32.3)	25.2 (21.1, 29.3)	14.8 (10.6, 19.0)	18.7 (14.8, 22.5)	15.4 (11, 19.8)	20.7 (16.8, 24.5)
Hungary	1,792	7.7 (5.5, 9.9)	10.7 (7.3, 14.2)	6.7 (4.7, 8.7)	8.3 (5.3, 11.2)	21.0 (17.6, 24.3)	28.8 (23.7, 33.8)	11.6 (9.0, 14.2)	16.6 (12.6, 20.7)
Iceland	1,248	20.1 (13.9, 26.3)	13.2 (10.2, 16.2)	21.7 (15.9, 27.4)	16.9 (13.2, 20.6)	16.1 (10.3, 21.8)	10.4 (7.7, 13.1)	7.8 (4.0, 11.5)	7.1 (4.6, 9.6)
Ireland	1,275	33.9 (28.1, 39.8)	33.5 (28.4, 38.6)	23.9 (18.8, 28.9)	25.8 (21.5, 30.0)	28.1 (22.6, 33.7)	29.9 (25.0, 34.9)	26.4 (21.2, 31.7)	30.1 (25.6, 34.5)
Italy	1,378	27.7 (22.9, 32.5)	27.4 (22.7, 32.1)	25.3 (20.5, 30.1)	26 (21.5, 30.5)	13.9 (10.2, 17.6)	16.6 (12.7, 20.5)	9.3 (6.1, 12.5)	11.6 (8.3, 14.9)
Latvia	1,302	19.0 (14.9, 23.2)	16.1 (11.4, 20.8)	18.4 (14.2, 22.6)	17.6 (13.8, 21.5)	17.7 (13.6, 21.7)	21.2 (16.0, 26.5)	14.5 (10.7, 18.3)	16.3 (12.6, 20)
Lithuania	1,283	14.8 (10.7, 18.9)	22.4 (17.4, 27.3)	12.1 (8.4, 15.8)	13.8 (10.5, 17.2)	17.8 (13.4, 22.2)	20.2 (15.4, 25)	13.3 (9.5, 17.2)	17.3 (13.6, 20.9)
Luxembourg	1,065	20.1 (15.5, 24.6)	14.8 (10.5, 19.1)	13.9 (9.7, 18.1)	9.8 (6.0, 13.7)	9.3 (6.0, 12.6)	6.9 (3.8, 10.0)	12.1 (8.2, 16.1)	9.0 (5.4, 12.7)
Malta	1,136	25.9 (21.3, 30.5)	22.5 (17.3, 27.8)	23.1 (18.5, 27.8)	24.9 (19.1, 30.6)	16.1 (12.2, 19.9)	8.5 (5.0, 12.0)	13.9 (10, 17.7)	8.4 (4.7, 12.1)
Moldova	1,128	19.6 (15.2, 24.0)	12.5 (8.2, 16.9)	19.9 (15.7, 24.0)	14.8 (10.2, 19.4)	19.0 (14.6, 23.3)	19.4 (14.2, 24.6)	17.1 (13.2, 21.1)	17.4 (12.4, 22.3)
Netherlands	1,216	20.8 (15.7, 25.9)	24.0 (19.8, 28.2)	19.5 (14.4, 24.7)	24.3 (19.7, 28.9)	18.6 (13.7, 23.5)	17.6 (13.9, 21.3)	10.9 (6.8, 14.9)	19.4 (15.2, 23.7)
Norway	1,250	26.3 (21.4, 31.1)	27.6 (22.6, 32.5)	25.7 (20.8, 30.7)	24.9 (20.1, 29.8)	15.6 (11.6, 19.6)	14.3 (10.4, 18.2)	8.0 (4.9, 11.1)	13.1 (9.3, 16.8)
Poland	1,389	17.9 (14.0, 21.8)	10.7 (7.0, 14.4)	11.5 (8.3, 14.7)	14.0 (10.4, 17.7)	18.3 (14.4, 22.2)	21.9 (17.0, 26.8)	11.6 (8.4, 14.9)	17.7 (13.7, 21.7)
Portugal	1,383	27.1 (22.4, 31.8)	34.2 (29.0, 39.3)	23.1 (18.1, 28.2)	27.1 (23.0, 31.3)	9.4 (6.3, 12.6)	12.4 (8.8, 15.9)	8.5 (5.1, 11.8)	12.9 (9.8, 16.1)
Romania	1,344	22.6 (17.5, 27.7)	20.3 (16.3, 24.3)	17.3 (12.5, 22.1)	14.2 (11.0, 17.4)	12.1 (8.2, 16.1)	15.7 (12.1, 19.3)	4.6 (1.9, 7.2)	7.9 (5.4, 10.4)
Serbia	1,351	19.5 (15.8, 23.2)	25.3 (19.5, 31.2)	14.9 (11.4, 18.5)	14.7 (10.7, 18.8)	10.2 (7.3, 13.0)	12.5 (8.1, 16.9)	5.7 (3.4, 8.0)	7.8 (4.7, 10.8)
Slovakia	1,283	28.6 (24.4, 32.9)	31.7 (25.4, 38.1)	17.3 (13.6, 21.0)	23.1 (17.6, 28.7)	16.0 (12.5, 19.4)	12.6 (8.0, 17.1)	11.4 (8.3, 14.4)	13.5 (9.0, 17.9)
Slovenia	1,283	24.7 (20.8, 28.6)	24.8 (18.3, 31.3)	12.7 (9.5, 16.0)	14.6 (10.0, 19.2)	9.1 (6.5, 11.7)	12.0 (7.1, 16.9)	7.2 (4.7, 9.7)	11.5 (7.3, 15.6)
Spain	1,491	30.8 (26.0, 35.7)	27.2 (22.8, 31.6)	28.2 (23.2, 33.2)	28.1 (23.8, 32.4)	21.0 (16.7, 25.3)	24.3 (20.1, 28.6)	17.1 (12.9, 21.3)	18.1 (14.5, 21.7)
Spain-Catalonia	1,284	27.3 (22.3, 32.3)	27.8 (22.8, 32.8)	21.7 (16.8, 26.6)	28.0 (23.5, 32.5)	14.2 (10.2, 18.1)	18.0 (13.7, 22.2)	12.8 (8.8, 16.8)	17.6 (13.8, 21.4)
Sweden	1,358	27.3 (22.9, 31.7)	29.6 (24.2, 35.0)	24.9 (20.5, 29.3)	33.7 (28.4, 39.0)	17.6 (13.8, 21.3)	21.9 (17.1, 26.8)	12.0 (8.7, 15.3)	13.2 (9.4, 17.0)
United Kingdom	1,223	22.3 (17.8, 26.8)	29.6 (24.1, 35.0)	18.2 (13.8, 22.5)	20.0 (15.6, 24.4)	24.1 (19.4, 28.7)	23.1 (18.1, 28.2)	21.2 (16.5, 25.8)	31.7 (26.5, 36.8)
Population-weighted average	47,081	23.0 (21.1, 24.8)	23.6 (21.6, 25.7)	18.8 (16.9, 20.7)	21.4 (19.6, 23.3)	18.1 (16.5, 19.7)	20.2 (18.5, 22.0)	13.8 (12.1, 15.6)	18.6 (15.9, 21.3)

Note: 95% Confidence intervals are given in brackets. Weighted data; weighting can result in negative figures. Low/mid SES (sociodemographic status): no, primary or secondary education, high SES: higher education. *Past-year alcohol users only. $n = 2,000$ indicated not knowing how their alcohol use changed during the COVID-19 pandemic.

Table A6

Sensitivity analysis: socioeconomic differences in alcohol indicators: results from individual-level regression analysis, using income as indicator for socioeconomic status

	Past-year alcohol use ^a	Mean daily drinking levels ^b	Monthly+ RSOD ^b	High-risk alcohol use ^b
Income (ref: Q1 – lowest income quintile) ^c				
Q2	1.32 (1.18, 1.47) ***	0.06 (0.00, 0.12)	0.97 (0.90, 1.05)	0.85 (0.85, 0.96) **
Q3	1.60 (1.43, 1.79) ***	0.16 (0.10, 0.22) ***	1.04 (0.96, 1.11)	0.89 (0.79, 1.01)
Q4	1.82 (1.62, 2.04) ***	0.24 (0.19, 0.30) ***	1.12 (1.04, 1.20) **	0.89 (0.79, 1.00)
Q5 – highest income quintile	2.33 (2.08, 2.60) ***	0.30 (0.25, 0.36) ***	1.11 (1.04, 1.19) **	0.87 (0.78, 0.97) *
Gender (ref: men)				
Women	0.66 (0.61, 0.71) ***	-0.91 (-0.95, -0.87) ***	0.59 (0.56, 0.62) ***	0.56 (0.52, 0.61) ***
Age group (ref: 18 to 34 years)				
35 to 44 years	1.09 (0.99, 1.20)	0.04 (-0.01, 0.09)	0.85 (0.80, 0.90) ***	1.04 (0.95, 1.14)
45 to 64 years	0.82 (0.75, 0.89) ***	-0.09 (-0.13, -0.05) ***	0.64 (0.61, 0.67) ***	0.85 (0.78, 0.92) ***

Note: Displayed are odds ratios from logistic regressions for past-year prevalence, monthly risky-single occasion drinking (RSOD), and high-risk alcohol, as well as beta coefficients from linear regressions for mean daily drinking levels. 95% confidence interval are indicated in brackets. For mean daily drinking levels, a linear multi-level regression model was used, with the logarithm of daily drinking levels as the dependent variable; the exponentiated coefficient can be interpreted as percentage change in the outcome variable comparing the test with the reference category of the independent variable. Number of respondents with missing income data: women: n = 6,975, men: n = 5,054; income data was not available for Slovenia. Random intercept: study location. Ref: reference.

^a all respondents with income data were included in the model: n = 41,355.

^b only past-year alcohol users with income were included in the model: n = 36,545.

^c individual-level annual disposable income, derived from the net household income and household size: quintiles of income based on the comparison of the survey data with the most recent national income distribution data available at Eurostat¹, with Q1 indicating the lowest and Q5 the highest income. To establish comparability of the survey data with that of Eurostat, reported household net income was equalised (i.e., divided) by the weighted number of household members, with a weight of 1 assigned to the first person aged 18 or older, a weight of 0.5 assigned to all other persons aged 18 or older, and a weight of 0.3 assigned to all persons under 18 living in the respondent's household (method and weights taken from Eurostat). For Bosnia-Herzegovina and Moldova, no Eurostat data were available and the income distribution of the country with the most similar per capita gross domestic product purchasing power parity (per capita GDP PPP, international dollar)² was used (for both: Albania).

* p < .050, ** p < .010, *** p < .001.

¹ Eurostat. (2022). *Distribution of income by quintiles—EU-SILC and ECHP surveys [ILC_DI01__custom_1274475] [Data set]*.

https://ec.europa.eu/eurostat/databrowser/view/ILC_DI01_custom_1274475/default/table; note: Eurostat defines children living in households as all persons aged 14 and younger; in our sample, we used the number of persons under 18.

² World Bank. (2022). *GDP per capita, PPP (current international \$). International Comparison Program*. World Bank.

https://data.worldbank.org/indicator/NY.GDP.PCAP.PP.CD?most_recent_value_desc=false

Table A7

Sensitivity analysis: socioeconomic differences in alcohol indicators among past-year alcohol users by gender: results from individual-level regression analysis, using income as indicator for socioeconomic status

	Men (n = 18,690)			Women (n = 17,855)		
	Mean daily drinking levels	Monthly+ RSOD	High-risk alcohol use	Mean daily drinking levels	Monthly+ RSOD	High-risk alcohol use
Income (ref: Q1 – lowest income) ^a						
Q2	0.00 (-0.08, 0.08)	0.93 (0.83, 1.03)	0.85 (0.72, 1.00) *	0.12 (0.04, 0.20) ***	1.03 (0.93, 1.15)	0.85 (0.70, 1.03)
Q3	0.09 (0.01, 0.17) *	0.97 (0.87, 1.07)	0.82 (0.71, 0.96) *	0.22 (0.14, 0.31) ***	1.13 (1.02, 1.26) *	1.01 (0.84, 1.21)
Q4	0.15 (0.07, 0.23) ***	1.04 (0.94, 1.15)	0.80 (0.68, 0.93) **	0.33 (0.25, 0.41) ***	1.22 (0.10, 1.35) ***	1.06 (0.88, 1.27)
Q5 – highest income	0.15 (0.08, 0.22) ***	1.00 (0.91, 1.10)	0.79 (0.69, 0.91) **	0.45 (0.37, 0.53) ***	1.28 (1.16, 1.42) ***	1.01 (0.85, 1.20)
Age group (ref: 18 to 34 years)						
35 to 44 years	0.13 (0.07, 0.20) ***	0.88 (0.81, 0.95) **	1.12 (0.99, 1.27)	-0.05 (-0.12, 0.02) ***	0.82 (0.76, 0.90) ***	0.93 (0.81, 1.08)
45 to 64 years	0.06 (0.01, 0.12) *	0.67 (0.63, 0.73) ***	0.88 (0.79, 0.98) *	-0.24 (-0.30, -0.18) ***	0.61 (0.56, 0.66) ***	0.81 (0.71, 0.93) **

Note: Displayed are odds ratios and the regression coefficient for mean daily drinking levels with 95% confidence interval in brackets. Logistic multi-level regression models were run for past-year alcohol, monthly risky-single occasion drinking (RSOD), and high-risk alcohol. For daily drinking levels, a linear multi-level regression model was used, with the logarithm of daily drinking levels as the dependent variable; the exponentiated coefficient can be interpreted as percentage change in the outcome variable comparing the test with the reference category of the independent variable. Number of respondents with missing income data: women: n = 6,975, men: n = 5,054; income data was not available for Slovenia. Random intercept: study location. Ref: reference.

^a individual-level annual disposable income, derived from the net household income and household size: quintiles of income based on the comparison of the survey data with the most recent national income distribution data available at Eurostat³, with Q1 indicating the lowest and Q5 the highest income. To establish comparability of the survey data with that of Eurostat, reported household net income was equalised (i.e., divided) by the weighted number of household members, with a weight of 1 assigned to the first person aged 18 or older, a weight of 0.5 assigned to all other persons aged 18 or older, and a weight of 0.3 assigned to all persons under 18 living in the respondent's household (method and weights taken from Eurostat). For Bosnia-Herzegovina and Moldova, no Eurostat data were available and the income distribution of the country with the most similar per capita gross domestic product purchasing power parity (per capita GDP PPP, international dollar)⁴ was used (for both: Albania).

* $p < .050$, ** $p < .010$, *** $p < .001$.

³ Eurostat. (2022). *Distribution of income by quantiles—EU-SILC and ECHP surveys [ILC_DI01__custom_1274475] [Data set]*.

https://ec.europa.eu/eurostat/databrowser/view/ILC_DI01__custom_1274475/default/table; note: Eurostat defines children living in households as all persons aged 14 and younger; in our sample, we used the number of persons under 18.

⁴ World Bank. (2022). *GDP per capita, PPP (current international \$). International Comparison Program*. World Bank. https://data.worldbank.org/indicator/NY.GDP.PCAP.PP.CD?most_recent_value_desc=false

Table A8

Gender-specific socioeconomic differences in pandemic-related changes in alcohol use.

	Men (n = 23,305)		Women (n = 23,776)	
	Increases in alcohol use	Decrease in alcohol use	Increases in alcohol use	Decrease in alcohol use
SES (ref: low/mid SES)				
High SES	1.09 (1.01, 1.17)	1.02 (0.95, 1.09)	1.27 (1.17, 1.37)‡	1.12 (1.05, 1.20) †
Age group (ref: 18 to 34 years)				
35 to 44 years	0.87 (0.79, 0.95) †	0.66 (0.61, 0.72) ‡	0.97 (0.89, 1.07)	0.52 (0.48, 0.56) ‡
45 to 64 years	0.56 (0.52, 0.61) ‡	0.55 (0.51, 0.59) ‡	0.62 (0.57, 0.68) ‡	0.41 (0.38, 0.45) ‡

Note: Displayed are odds ratios with 95% confidence interval in brackets. Random intercept: study location. Ref: reference. Only past-year alcohol users with reporting changes in alcohol use were included in the models: $n = 47,081$. SES: socioeconomic status. Bonferroni corrected p -values: * $< .050$, † $p < .010$, ‡ $p < .001$.

Table A9

Sensitivity analysis: gender-specific socioeconomic differences in respondents indicating that they do not know how the pandemic impacted their alcohol use.

	Men (n = 24,210)	Women (n = 24,871)
SES (ref: low/mid SES)		
High SES	0.72 (0.62, 0.82) ‡	0.70 (0.62, 0.79) ‡
Age group (ref: 18 to 34 years)		
35 to 44 years	0.73 (0.62, 0.87) ‡	0.81 (0.69, 0.94) †
45 to 64 years	0.55 (0.47, 0.64) ‡	0.54 (0.47, 0.63) ‡

Note: “Do not know” responses in men: $n = 905$, in women: $n = 1,1095$. Displayed are odds ratios with 95% confidence interval in brackets. Random intercept: study location. Ref: reference. SES: socioeconomic status. Only past-year alcohol users were included in the models: $n = 49,081$. p -values: * $< .050$, † $p < .010$, ‡ $p < .001$.

Table A10

Comparison of the prevalence of past-year alcohol use based on DEEP SEAS (2021) with prevalence estimates from the European Health Interview Survey (EHIS, 2019), by study location, gender, age group, and socioeconomic status (SES).

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Austria	men	18-34	low/mid	92.2	79.9	12.3
Austria	men	18-34	high	92	90.8	1.2
Austria	men	35-44	low/mid	92	79.9	12.1
Austria	men	35-44	high	95.5	93.5	2
Austria	men	45-64	low/mid	94.6	82.2	12.4
Austria	men	45-64	high	91.9	92.2	-0.3
Austria	women	18-34	low/mid	92.7	72.5	20.2
Austria	women	18-34	high	92.3	86.2	6.1
Austria	women	35-44	low/mid	88.9	70.4	18.5
Austria	women	35-44	high	89.1	85.2	3.9
Austria	women	45-64	low/mid	90.5	74.1	16.4
Austria	women	45-64	high	91.7	86.7	5
Belgium	men	18-34	low/mid	91.6	81.9	9.7
Belgium	men	18-34	high	95.3	89.6	5.7
Belgium	men	35-44	low/mid	95.8	75.9	19.9
Belgium	men	35-44	high	96.7	92.8	3.9
Belgium	men	45-64	low/mid	94.4	78.1	16.3
Belgium	men	45-64	high	92	87.2	4.8
Belgium	women	18-34	low/mid	80.9	66.5	14.4
Belgium	women	18-34	high	85.6	86.2	-0.6
Belgium	women	35-44	low/mid	78.5	56.9	21.6
Belgium	women	35-44	high	79.5	84.5	-5
Belgium	women	45-64	low/mid	87.6	62.4	25.2
Belgium	women	45-64	high	91.1	86.9	4.2
Bulgaria	men	18-34	low/mid	98.2	81.4	16.8
Bulgaria	men	18-34	high	96.7	87.6	9.1
Bulgaria	men	35-44	low/mid	98.8	90.7	8.1
Bulgaria	men	35-44	high	97.7	90.3	7.4
Bulgaria	men	45-64	low/mid	99.6	89	10.6
Bulgaria	men	45-64	high	98.9	90.9	8
Bulgaria	women	18-34	low/mid	94.3	53.2	41.1
Bulgaria	women	18-34	high	97.5	62.7	34.8
Bulgaria	women	35-44	low/mid	95.7	70.2	25.5
Bulgaria	women	35-44	high	97.4	79.1	18.3
Bulgaria	women	45-64	low/mid	95	67.3	27.7
Bulgaria	women	45-64	high	95.7	83.8	11.9
Croatia	men	18-34	low/mid	92.9	71	21.9
Croatia	men	18-34	high	96.6	91.1	5.5
Croatia	men	35-44	low/mid	95.4	76.7	18.7
Croatia	men	35-44	high	98.5	84.2	14.3
Croatia	men	45-64	low/mid	93.8	78.3	15.5

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Croatia	men	45-64	high	96.6	75.6	21
Croatia	women	18-34	low/mid	95.8	60.3	35.5
Croatia	women	18-34	high	97	75.9	21.1
Croatia	women	35-44	low/mid	93.9	55.9	38
Croatia	women	35-44	high	96.8	76	20.8
Croatia	women	45-64	low/mid	94.8	55.6	39.2
Croatia	women	45-64	high	92.2	66.4	25.8
Cyprus	men	18-34	low/mid	90	84.2	5.8
Cyprus	men	18-34	high	95.6	93.7	1.9
Cyprus	men	35-44	low/mid	87.8	91.2	-3.4
Cyprus	men	35-44	high	96	94.2	1.8
Cyprus	men	45-64	low/mid	90.8	89.3	1.5
Cyprus	men	45-64	high	94.6	95.3	-0.7
Cyprus	women	18-34	low/mid	87.1	52	35.1
Cyprus	women	18-34	high	90.9	71.1	19.8
Cyprus	women	35-44	low/mid	90.9	57.6	33.3
Cyprus	women	35-44	high	96.5	65.4	31.1
Cyprus	women	45-64	low/mid	86	50.8	35.2
Cyprus	women	45-64	high	87.3	72.2	15.1
Czechia	men	18-34	low/mid	91.6	91.3	0.3
Czechia	men	18-34	high	90.3	95.3	-5
Czechia	men	35-44	low/mid	97.2	93.2	4
Czechia	men	35-44	high	94.8	98.2	-3.4
Czechia	men	45-64	low/mid	96.5	91.5	5
Czechia	men	45-64	high	93.7	99.5	-5.8
Czechia	women	18-34	low/mid	94.9	79.8	15.1
Czechia	women	18-34	high	95	83.2	11.8
Czechia	women	35-44	low/mid	93.8	86.4	7.4
Czechia	women	35-44	high	95.1	92.1	3
Czechia	women	45-64	low/mid	92.1	89.1	3
Czechia	women	45-64	high	98.1	95.7	2.4
Denmark	men	18-34	low/mid	96.2	89.6	6.6
Denmark	men	18-34	high	92	95.3	-3.3
Denmark	men	35-44	low/mid	95.8	88	7.8
Denmark	men	35-44	high	95	96.3	-1.3
Denmark	men	45-64	low/mid	91.2	89.8	1.4
Denmark	men	45-64	high	98.9	96.8	2.1
Denmark	women	18-34	low/mid	90.1	85.2	4.9
Denmark	women	18-34	high	88.6	86.4	2.2
Denmark	women	35-44	low/mid	83	72.4	10.6
Denmark	women	35-44	high	90.7	91.8	-1.1
Denmark	women	45-64	low/mid	87.1	81.3	5.8
Denmark	women	45-64	high	93.2	91.2	2
Estonia	men	18-34	low/mid	86.6	90.2	-3.6

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Estonia	men	18-34	high	87.5	91.1	-3.6
Estonia	men	35-44	low/mid	92.5	90.3	2.2
Estonia	men	35-44	high	85.5	92	-6.5
Estonia	men	45-64	low/mid	82.7	82.7	0
Estonia	men	45-64	high	89.7	84.2	5.5
Estonia	women	18-34	low/mid	87.1	83.5	3.6
Estonia	women	18-34	high	92.1	81.6	10.5
Estonia	women	35-44	low/mid	87.9	79.6	8.3
Estonia	women	35-44	high	88.7	84.9	3.8
Estonia	women	45-64	low/mid	90.6	76.2	14.4
Estonia	women	45-64	high	86.5	91.9	-5.4
Finland	men	18-34	low/mid	96.4		
Finland	men	18-34	high	97.2		
Finland	men	35-44	low/mid	93.1		
Finland	men	35-44	high	90.4		
Finland	men	45-64	low/mid	94		
Finland	men	45-64	high	94.1		
Finland	women	18-34	low/mid	92.9		
Finland	women	18-34	high	92.4		
Finland	women	35-44	low/mid	88		
Finland	women	35-44	high	94.4		
Finland	women	45-64	low/mid	82.5		
Finland	women	45-64	high	95.7		
France	men	18-34	low/mid	89.8	83.5	6.3
France	men	18-34	high	93.6	90.7	2.9
France	men	35-44	low/mid	92.5	83.1	9.4
France	men	35-44	high	93.9	88.1	5.8
France	men	45-64	low/mid	93	81.5	11.5
France	men	45-64	high	93.3	90.9	2.4
France	women	18-34	low/mid	82.2	73.1	9.1
France	women	18-34	high	90	78.2	11.8
France	women	35-44	low/mid	79.2	71.1	8.1
France	women	35-44	high	90.3	83.9	6.4
France	women	45-64	low/mid	85.6	75.3	10.3
France	women	45-64	high	91	83.6	7.4
Germany	men	18-34	low/mid	92.1	81.5	10.6
Germany	men	18-34	high	95	94.2	0.8
Germany	men	35-44	low/mid	87	81.5	5.5
Germany	men	35-44	high	95.8	91.6	4.2
Germany	men	45-64	low/mid	87.7	77.3	10.4
Germany	men	45-64	high	94.8	92.3	2.5
Germany	women	18-34	low/mid	84	75.5	8.5
Germany	women	18-34	high	88.2	84	4.2
Germany	women	35-44	low/mid	81.1	77.8	3.3

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Germany	women	35-44	high	90.1	83.2	6.9
Germany	women	45-64	low/mid	81.6	78.5	3.1
Germany	women	45-64	high	84.6	88.7	-4.1
Greece	men	18-34	low/mid	95.1	88.9	6.2
Greece	men	18-34	high	100	89.1	10.9
Greece	men	35-44	low/mid	100	87.7	12.3
Greece	men	35-44	high	99	90.5	8.5
Greece	men	45-64	low/mid	98.6	85.8	12.8
Greece	men	45-64	high	99	81.1	17.9
Greece	women	18-34	low/mid	96.7	75.3	21.4
Greece	women	18-34	high	99.5	79.5	20
Greece	women	35-44	low/mid	100	70.4	29.6
Greece	women	35-44	high	95.2	72.5	22.7
Greece	women	45-64	low/mid	98	71.4	26.6
Greece	women	45-64	high	98.8	79.3	19.5
Hungary	men	18-34	low/mid	94.8	81.8	13
Hungary	men	18-34	high	96	92.4	3.6
Hungary	men	35-44	low/mid	96.6	80.5	16.1
Hungary	men	35-44	high	95.2	92.9	2.3
Hungary	men	45-64	low/mid	91.3	83.3	8
Hungary	men	45-64	high	98.5	86.9	11.6
Hungary	women	18-34	low/mid	91.2	69.9	21.3
Hungary	women	18-34	high	93.2	78	15.2
Hungary	women	35-44	low/mid	92.9	55.2	37.7
Hungary	women	35-44	high	96.3	80.5	15.8
Hungary	women	45-64	low/mid	90.7	60.6	30.1
Hungary	women	45-64	high	91.6	79.9	11.7
Iceland	men	18-34	low/mid	86.6	86	0.6
Iceland	men	18-34	high	84.3	91.9	-7.6
Iceland	men	35-44	low/mid	94.7	82.8	11.9
Iceland	men	35-44	high	94.4	93.4	1
Iceland	men	45-64	low/mid	85.3	87.7	-2.4
Iceland	men	45-64	high	93.1	92.7	0.4
Iceland	women	18-34	low/mid	86.5	84.4	2.1
Iceland	women	18-34	high	88.4	87.4	1
Iceland	women	35-44	low/mid	86.4	82.6	3.8
Iceland	women	35-44	high	88.7	87.8	0.9
Iceland	women	45-64	low/mid	89.3	82.5	6.8
Iceland	women	45-64	high	89.1	89.7	-0.6
Ireland	men	18-34	low/mid	90.6	81.9	8.7
Ireland	men	18-34	high	93.8	90.4	3.4
Ireland	men	35-44	low/mid	93.5	86.1	7.4
Ireland	men	35-44	high	92.9	87.5	5.4
Ireland	men	45-64	low/mid	91.2	77.1	14.1

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Ireland	men	45-64	high	90.7	86	4.7
Ireland	women	18-34	low/mid	90.8	82.6	8.2
Ireland	women	18-34	high	94.3	84.4	9.9
Ireland	women	35-44	low/mid	93.8	78	15.8
Ireland	women	35-44	high	91.4	87.2	4.2
Ireland	women	45-64	low/mid	93.1	74.3	18.8
Ireland	women	45-64	high	92.5	84.1	8.4
Italy	men	18-34	low/mid	96.8	73.9	22.9
Italy	men	18-34	high	97.4	89.2	8.2
Italy	men	35-44	low/mid	97.3	79.9	17.4
Italy	men	35-44	high	97.7	88.5	9.2
Italy	men	45-64	low/mid	97.1	80.6	16.5
Italy	men	45-64	high	97	91.8	5.2
Italy	women	18-34	low/mid	95.1	57.2	37.9
Italy	women	18-34	high	95.7	76.4	19.3
Italy	women	35-44	low/mid	91.9	52.3	39.6
Italy	women	35-44	high	100	77.3	22.7
Italy	women	45-64	low/mid	93.9	50.2	43.7
Italy	women	45-64	high	95.1	85	10.1
Latvia	men	18-34	low/mid	91.9	84.6	7.3
Latvia	men	18-34	high	93.6	91.8	1.8
Latvia	men	35-44	low/mid	97.1	84.5	12.6
Latvia	men	35-44	high	100	86.7	13.3
Latvia	men	45-64	low/mid	86.3	81.2	5.1
Latvia	men	45-64	high	95.5	90.4	5.1
Latvia	women	18-34	low/mid	94.3	73.2	21.1
Latvia	women	18-34	high	93.6	78.1	15.5
Latvia	women	35-44	low/mid	87.2	78.2	9
Latvia	women	35-44	high	98.1	84.9	13.2
Latvia	women	45-64	low/mid	88.1	85.5	2.6
Latvia	women	45-64	high	93.1	88.9	4.2
Lithuania	men	18-34	low/mid	89.6	76.2	13.4
Lithuania	men	18-34	high	98.5	86	12.5
Lithuania	men	35-44	low/mid	88.9	89.1	-0.2
Lithuania	men	35-44	high	94	87.5	6.5
Lithuania	men	45-64	low/mid	92.1	84	8.1
Lithuania	men	45-64	high	92.7	84	8.7
Lithuania	women	18-34	low/mid	89.7	64	25.7
Lithuania	women	18-34	high	95.5	75.4	20.1
Lithuania	women	35-44	low/mid	93	87.8	5.2
Lithuania	women	35-44	high	89.4	81.6	7.8
Lithuania	women	45-64	low/mid	94.5	78.6	15.9
Lithuania	women	45-64	high	95.4	81.2	14.2
Luxembourg	men	18-34	low/mid	77.8	83.1	-5.3

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Luxembourg	men	18-34	high	83.5	90.6	-7.1
Luxembourg	men	35-44	low/mid	71	84.3	-13.3
Luxembourg	men	35-44	high	82	92.7	-10.7
Luxembourg	men	45-64	low/mid	77.1	83.1	-6
Luxembourg	men	45-64	high	81	89.7	-8.7
Luxembourg	women	18-34	low/mid	67.5	69.3	-1.8
Luxembourg	women	18-34	high	60.8	83.7	-22.9
Luxembourg	women	35-44	low/mid	68.5	74.2	-5.7
Luxembourg	women	35-44	high	61.3	85.3	-24.0
Luxembourg	women	45-64	low/mid	80.6	73.8	6.8
Luxembourg	women	45-64	high	78.4	85.9	-7.5
Malta	men	18-34	low/mid	87	82.1	4.9
Malta	men	18-34	high	86.7	92.1	-5.4
Malta	men	35-44	low/mid	92.4	82	10.4
Malta	men	35-44	high	88.9	81.4	7.5
Malta	men	45-64	low/mid	75.7	76	-0.3
Malta	men	45-64	high	84.6	75.7	8.9
Malta	women	18-34	low/mid	72.9	71.6	1.3
Malta	women	18-34	high	79.2	80.3	-1.1
Malta	women	35-44	low/mid	92.3	65.2	27.1
Malta	women	35-44	high	86.6	70	16.6
Malta	women	45-64	low/mid	73.1	52.9	20.2
Malta	women	45-64	high	79.3	75.8	3.5
Netherlands	men	18-34	low/mid	91.1	81.6	9.5
Netherlands	men	18-34	high	94	95.1	-1.1
Netherlands	men	35-44	low/mid	94.3	80.7	13.6
Netherlands	men	35-44	high	94.7	88.2	6.5
Netherlands	men	45-64	low/mid	88.5	80.2	8.3
Netherlands	men	45-64	high	90.5	92.9	-2.4
Netherlands	women	18-34	low/mid	88.7	78.4	10.3
Netherlands	women	18-34	high	88.9	86.2	2.7
Netherlands	women	35-44	low/mid	82.3	63.3	19
Netherlands	women	35-44	high	88.6	85	3.6
Netherlands	women	45-64	low/mid	68.7	68.5	0.2
Netherlands	women	45-64	high	81.4	85	-3.6
Norway	men	18-34	low/mid	85.9	89.3	-3.4
Norway	men	18-34	high	89.9	92	-2.1
Norway	men	35-44	low/mid	88.7	88.1	0.6
Norway	men	35-44	high	93.1	90.4	2.7
Norway	men	45-64	low/mid	92.5	89.6	2.9
Norway	men	45-64	high	90.5	91.9	-1.4
Norway	women	18-34	low/mid	87.7	85.4	2.3
Norway	women	18-34	high	89.9	90.8	-0.9
Norway	women	35-44	low/mid	80	77.9	2.1

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Norway	women	35-44	high	88.3	90.8	-2.5
Norway	women	45-64	low/mid	82.8	81.4	1.4
Norway	women	45-64	high	87.1	90.3	-3.2
Poland	men	18-34	low/mid	97	86.4	10.6
Poland	men	18-34	high	98.3	91.1	7.2
Poland	men	35-44	low/mid	95.5	92.2	3.3
Poland	men	35-44	high	97	90.2	6.8
Poland	men	45-64	low/mid	95.5	87.7	7.8
Poland	men	45-64	high	95.9	94.1	1.8
Poland	women	18-34	low/mid	98.1	75.1	23
Poland	women	18-34	high	97.8	77.7	20.1
Poland	women	35-44	low/mid	98.9	75.3	23.6
Poland	women	35-44	high	95.8	83.4	12.4
Poland	women	45-64	low/mid	98.3	76.4	21.9
Poland	women	45-64	high	93.2	88.8	4.4
Portugal	men	18-34	low/mid	91.4	80.6	10.8
Portugal	men	18-34	high	97.2	92.5	4.7
Portugal	men	35-44	low/mid	98.7	87.8	10.9
Portugal	men	35-44	high	97	93.3	3.7
Portugal	men	45-64	low/mid	94.7	86	8.7
Portugal	men	45-64	high	98.6	89.2	9.4
Portugal	women	18-34	low/mid	91.1	61.6	29.5
Portugal	women	18-34	high	92.6	77	15.6
Portugal	women	35-44	low/mid	96.4	63.1	33.3
Portugal	women	35-44	high	95.2	76.1	19.1
Portugal	women	45-64	low/mid	94.5	59.9	34.6
Portugal	women	45-64	high	93	76.8	16.2
Romania	men	18-34	low/mid	94.2	80.9	13.3
Romania	men	18-34	high	99.2	84.6	14.6
Romania	men	35-44	low/mid	97.1	90.2	6.9
Romania	men	35-44	high	99.1	86.3	12.8
Romania	men	45-64	low/mid	92.4	89.8	2.6
Romania	men	45-64	high	97.4	91.8	5.6
Romania	women	18-34	low/mid	91.6	58	33.6
Romania	women	18-34	high	94.6	65.6	29
Romania	women	35-44	low/mid	90.9	65	25.9
Romania	women	35-44	high	99.2	67.8	31.4
Romania	women	45-64	low/mid	98.4	66.2	32.2
Romania	women	45-64	high	97.9	65.5	32.4
Serbia	men	18-34	low/mid	95.3	68	27.3
Serbia	men	18-34	high	98.9	71.6	27.3
Serbia	men	35-44	low/mid	96.3	66.3	30
Serbia	men	35-44	high	97.7	79	18.7
Serbia	men	45-64	low/mid	94.4	70.5	23.9

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Serbia	men	45-64	high	97	73.8	23.2
Serbia	women	18-34	low/mid	93.3	46.9	46.4
Serbia	women	18-34	high	97.7	52.6	45.1
Serbia	women	35-44	low/mid	97.9	35.9	62
Serbia	women	35-44	high	92.7	52	40.7
Serbia	women	45-64	low/mid	93.3	27.4	65.9
Serbia	women	45-64	high	93.3	61.4	31.9
Slovakia	men	18-34	low/mid	93	79.1	13.9
Slovakia	men	18-34	high	97	85.1	11.9
Slovakia	men	35-44	low/mid	95.3	86.3	9
Slovakia	men	35-44	high	94.8	80.3	14.5
Slovakia	men	45-64	low/mid	93.6	85.4	8.2
Slovakia	men	45-64	high	97.2	88.5	8.7
Slovakia	women	18-34	low/mid	96.6	62.6	34
Slovakia	women	18-34	high	97.2	76	21.2
Slovakia	women	35-44	low/mid	95.2	70.4	24.8
Slovakia	women	35-44	high	96.8	79.4	17.4
Slovakia	women	45-64	low/mid	93.3	71.2	22.1
Slovakia	women	45-64	high	95.4	78.6	16.8
Slovenia	men	18-34	low/mid	89.9	84.4	5.5
Slovenia	men	18-34	high	94.9	86.4	8.5
Slovenia	men	35-44	low/mid	91	77.4	13.6
Slovenia	men	35-44	high	98	88	10
Slovenia	men	45-64	low/mid	91.1	75.2	15.9
Slovenia	men	45-64	high	92.9	86.8	6.1
Slovenia	women	18-34	low/mid	93.4	64.9	28.5
Slovenia	women	18-34	high	92.7	77.2	15.5
Slovenia	women	35-44	low/mid	89.6	64.9	24.7
Slovenia	women	35-44	high	90.8	78.1	12.7
Slovenia	women	45-64	low/mid	83.4	61.5	21.9
Slovenia	women	45-64	high	91.2	74.1	17.1
Spain	men	18-34	low/mid	96.3	75.7	20.6
Spain	men	18-34	high	97.4	87.1	10.3
Spain	men	35-44	low/mid	99.1	75	24.1
Spain	men	35-44	high	98.6	83	15.6
Spain	men	45-64	low/mid	97	75.2	21.8
Spain	men	45-64	high	97.7	86.5	11.2
Spain	women	18-34	low/mid	89.3	67.8	21.5
Spain	women	18-34	high	95.3	73.8	21.5
Spain	women	35-44	low/mid	93.8	58.7	35.1
Spain	women	35-44	high	93.4	70.1	23.3
Spain	women	45-64	low/mid	94.2	57.9	36.3
Spain	women	45-64	high	97.2	71.1	26.1
Sweden	men	18-34	low/mid	84.9	78.4	6.5

Study location	Gender	Age group	SES	DEEP SEAS	EHIS	Absolute difference in PP
Sweden	men	18-34	high	93.3	91.3	2
Sweden	men	35-44	low/mid	86.3	80.9	5.4
Sweden	men	35-44	high	96.2	88.3	7.9
Sweden	men	45-64	low/mid	91.1	91.4	-0.3
Sweden	men	45-64	high	94.6	91	3.6
Sweden	women	18-34	low/mid	83.6	80.2	3.4
Sweden	women	18-34	high	90	87.4	2.6
Sweden	women	35-44	low/mid	84.5	75.3	9.2
Sweden	women	35-44	high	89.9	87	2.9
Sweden	women	45-64	low/mid	88.4	77.7	10.7
Sweden	women	45-64	high	90.4	90.1	0.3

Note: PP: Percentage Points. Low/mid SES: no, primary or secondary education, high SES: higher education. Comparisons were made for all countries included in DEEP SEAS and EHIS. Data was obtained from Eurostat (Eurostat, 2021).

Legend: green = DEEP SEAS estimate lower by at least 10 PP compared to EHIS estimate; yellow = absolute difference between the DEEP SEAS and the EHIS estimate within a ± 10 PP margin; red = DEEP SEAS estimate higher by more than 10 PP compared to EHIS estimate.

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