

# **HEALTH EQUITY PILOT PROJECT**

# **Ireland**

Profile of socio-economic inequalities in alcohol, nutrition and physical activity





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# **SUMMARY**

This report compares socio-economic inequalities relating to alcohol, nutrition and physical activity in Ireland with gradients for the European Union as a whole.

To set this in context, life expectancy in Ireland is slightly greater than that in the EU as a whole for men and women – with a difference of about 1.7 years more for men, and the same as for the EU as a whole for women. Differences in healthy life expectancy are larger – around four years more than the EU figure for men and six years more for women. There are substantial income inequalities in Ireland by level of educational attainment.

There are steep gradients in self perceived health by education - differences are somewhat greater than for the EU as a whole for both men and women; the gradient by income is similar to that for the EU as a whole for women and is greater than for the EU as a whole for men. Gradients in long term illness are much steeper than those for the EU as a whole by education and income for both males and females. There are similar gradients in self-reported diabetes by education for men and women; the gradient for women is similar to that for the EU as a whole while for men it is slightly steeper.

Some of the differences in health and the behaviours that lead to these differences are apparent from early in life. At ages 11 to 15, boys and girls from high family affluence groups are much more likely to consume fruit daily than those from low ones. Girls from low family affluence groups are more likely to consume sugar sweetened beverages daily and to be overweight than those from high ones. At ages 15 to 16, the proportion of male and female students who reported ever being drunk, binge drinking in the last month, and having drunk alcohol at 12 or less all declined as mother's educational level increased. Among male students, the proportion who reported drinking alcohol in the last month and being drunk at 14 or less also decreased with the level of mother's education. In all cases, the decline was steeper than for the EU as a whole.

Among adults, fruit and vegetable consumption and physical activity outside work all increase sharply with increased levels of educational attainment. In all cases the gradients among men and women are steeper than for the EU as a whole. In work physical activity decreases with increased levels of educational attainment for both men and women - more sharply than for the EU as a whole. Among women both obesity and pre-obesity decrease with level of educational attainment though less sharply than for the EU as a whole, while among men obesity decreases slightly more sharply than for the EU. Daily alcohol consumption is considerably lower than in the EU as a whole at each level of educational attainment for both men and women. Heavy episodic drinking at least monthly is least common among both men and women with lower levels of education.

# INTRODUCTION

This report summarises the data that are available to compare socio-economic inequalities relating to alcohol, nutrition and physical activity in Ireland with gradients for the European Union as a whole. It is based solely **on data sources harmonised across Member States, available on or before April 2018**, from data bases such as Eurostat and WHO European Health Information Gateway. All graphs and tables presented in this report relate **solely to data for Ireland.** 

Inequalities in life chances, behaviours and their health outcomes begin at the earliest stages in life, through intergenerational transmission, and accumulate across the life-course<sup>1</sup>. This observation provides two guiding principles for the structure of this report. First, the presentation of results is ordered according to the stages of the life course – from conditions in the womb through to adult behaviours. Second, both to reflect differentials that are established early in life and to achieve the greatest level of comparability, level of educational attainment is used as the principle measure of socio-economic variation in this report<sup>2</sup>. Other indicators, such as family affluence or income are used where this significantly extends the range of analyses possible.

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<sup>&</sup>lt;sup>1</sup> World Health Organization (2013) Review of Social Determinants of Health and the Health Divide in the WHO European Region: final report of a consortium chaired by Michael Marmot. WHO Regional Office for Europe, Copenhagen.

<sup>&</sup>lt;sup>2</sup> Mackenbach, J.P. (2016), <u>Health Inequalities in Europe</u>, Erasmus University Publishing, Rotterdam

# **BACKGROUND INFORMATION**

The average population of Ireland during 2017 was 4.8 million, slightly less than 1 percent of the figure for the European Union (EU) as a whole. Half of the population was aged under 36.9 years – the comparable figure for the EU was 42.8 years. Net migration was 5.2 per 1,000 population (2.4 for the EU as a whole). In terms of age dependency, the number aged under 15 or 65 and over was 52.9 percent of the figure for age 15 to 64 - the comparable figure for the EU was 53.9 per cent.

In 2016, life expectancy at birth was 79.9 years for males and 83.6 years for females – a gender gap of 3.7 years. Comparable figures for the EU were 78.2, 83.6 and 5.4 years. The comparable figures for healthy life years in Ireland were 67.3, 69.8 and 2.5 years (i.e. women stayed healthier for longer than men in Ireland) and 63.5, 64.2 and 0.7 years for the EU. These figures meant that men in Ireland could expect to spend 12.6 years in ill-health and women 13.8 years – a difference of 1.2 years. The comparable figures for the EU were 14.7 and 19.4 years – a difference of 4.7 years.

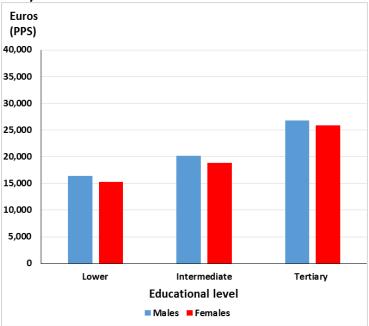
# **INCOME INEQUALITY**

# INEQUALITIES WITHIN COUNTRY

In terms of income inequality, the Gini coefficient was 29.5 for Ireland compared to 30.8 for the EU. The fifth of the population with the highest incomes received 4.4 times the income of the lowest fifth – the ratio across the EU was 5.2.

Both equivalised mean and median income per household increased with level of educational attainment in 2016. Average equivalised household income was around 10,400 Euros higher for men with tertiary education than for those with lower levels of educational attainment. For women of this age the difference was around 10,600 Euros. The comparable differences in median income were 9,200 and 10,600 Euros, respectively.

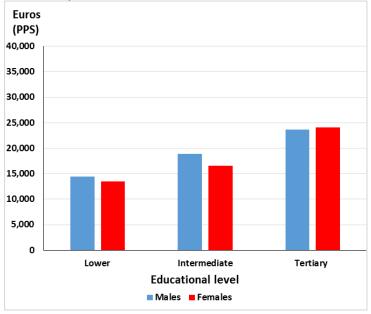
Equivalised mean income (pps) by level of educational attainment and sex, 2016



Sources, numbers and definitions: See Annex

COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE No figures are available for the EU as a whole.

Equivalised median income (pps) by level of educational attainment and sex, 2016



Sources, numbers and definitions: See Annex

COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE No figures are available for the EU as a whole.

# INEQUALITIES IN BEHAVIOURS AND OUTCOMES

#### **HEALTH AND LIFE EXPECTANCY**

# LIFE EXPECTANCY

No EU harmonised data available by socio-economic status for Ireland

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

No figures are available for the EU as a whole. Only 16 Member States report these data to Eurostat, of which three are for earlier years than 2015. In all these 16 Member States there are social gradients in life expectancy by educational attainment.

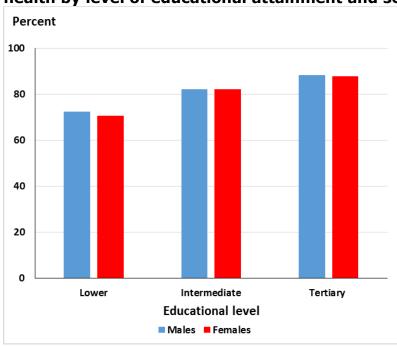
#### SELF PERCEIVED HEALTH

# (a) By educational attainment

# INEQUALITIES WITHIN COUNTRY

The data suggest there is a clear social gradient in self-perception of good or very good health in Ireland by level of educational attainment. Self-reported health of the least educated men is 16 percentage points less than the most educated. For women, the gradient is slightly steeper with a gap of 17 percentage points.

Age standardised percentage with good or very good self-perceived health by level of educational attainment and sex, 2016



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

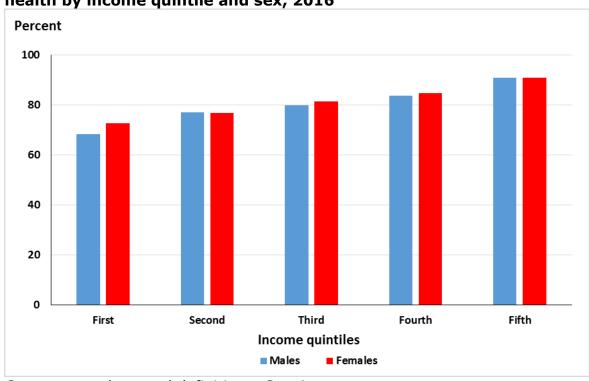
The data suggest there is a clear social gradient in self-perception of good or very good health in the EU as a whole. Self-reported health of the least educated men is 14 percentage points less than the most educated. For women, the gradient is slightly steeper with a gap of 16 percentage points.

# (b) By income

# INEQUALITIES WITHIN COUNTRY

The data suggest there is a clear social gradient in self-perception of good or very good health in Ireland by income quintile. Self-reported health of men in the lowest income quintile is 23 percentage points less than those in the top income quintile. Among women, the gradient is less steep with a gap of 18 percentage points.

Age standardised percentage with good or very good self-perceived health by income quintile and sex, 2016



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

The data suggest there is a clear social gradient in self-perception of good or very good health in the EU as a whole. Self-reported health of men in the lowest income quintile is 18 percentage points less than for those in the highest income quintile. For women, the gradient is similar with a gap of 19 percentage points.

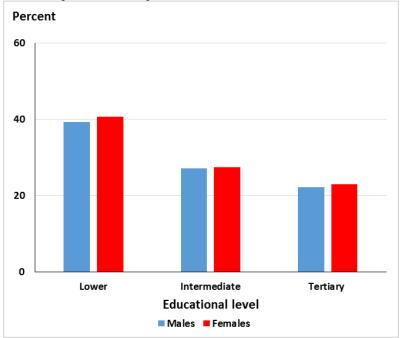
# LONGSTANDING ILLNESS OR HEALTH PROBLEMS

# (a) By educational attainment

#### INEQUALITIES WITHIN COUNTRY

The data suggest there is a clear social gradient in reporting a long-standing illness or health problem in Ireland by level of educational attainment. Self-reported long-standing ill-health of the least educated men is 17 percentage points greater than for the most educated. Among women, the gradient is similar with a gap of 18 percentage points.

# Age standardised percentage reporting a long-standing illness or health problem by level of educational attainment and sex, 2016



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

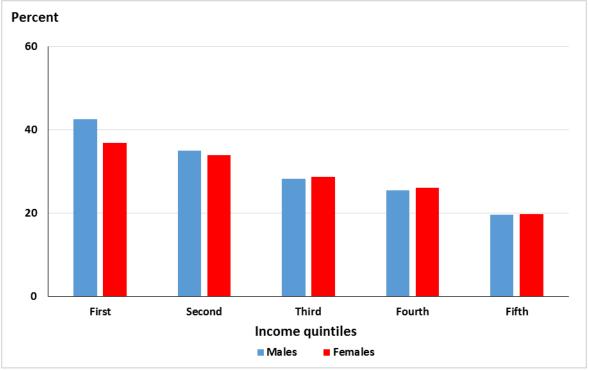
The data suggest that those with tertiary education are much less likely to report a long-standing illness or health problem than those with less educational attainment in the EU as a whole. Reporting of long-standing ill-health is four percentage points lower for the most educated men than for the least educated. For women, the gap is five percentage points.

# (b) By income

#### INEOUALITIES WITHIN COUNTRY

The data suggest there is a clear social gradient in reporting a long-standing illness or health problem in Ireland by income quintile. Self-reported long-standing ill-health by men in the lowest income quintile is 23 percentage points greater than for those in the top income quintile. Among women, the gradient is slightly less steep with a gap of 17 percentage points.

# Age standardised percentage reporting a long-standing illness or health problem by income quintile and sex, 2016



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

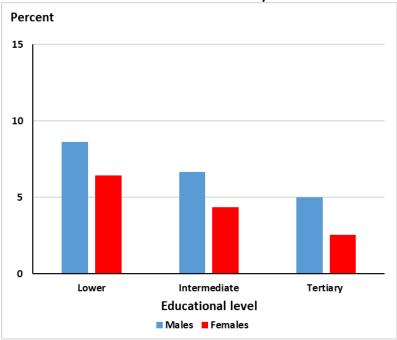
The data suggest there is a clear social gradient in reporting a long-standing illness or health problem in the EU as a whole. Self-reported long-standing ill-health in the lowest income quintile is 11 percentage points higher than for those in the highest income quintile, for both men and women.

# SELF REPORTING OF DIABETES

# INEQUALITIES WITHIN COUNTRY

The data suggest there is a clear social gradient in self-reporting of diabetes in Ireland by level of educational attainment. Self-reported diabetes among the least educated men and women is four percentage points greater than for the most educated.

# Age standardised percentage reporting diabetes by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

The data suggest that those with tertiary education are less likely to report having diabetes than those with less educational attainment in the EU as a whole. Reporting of diabetes is three percentage points lower for the most educated men than for the least educated. For women, the gap is four percentage points.

# **LIFECOURSE**

# A) LIFECOURSE STAGE - A GOOD START IN LIFE

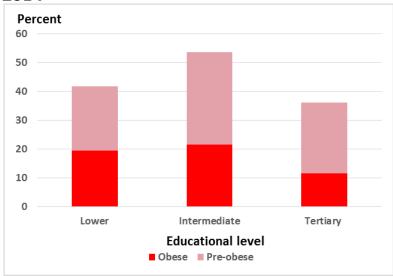
The events at which a good start in life needs to be established include preconception, conception, pregnancy and birth, the first thousand days, pre-school and primary education.

#### WOMEN OVERWEIGHT AT FERTILE AGES 18 TO 44

# INEQUALITIES WITHIN COUNTRY

Among overweight adults (BMI of 25 or more), the European Health Interview Survey (EHIS) separately identifies the proportions obese (BMI of 30 or more) from those who are not (i.e. pre-obese with BMI of at least 25 but less than 30). Among women at ages 18 to 44 in Ireland, the data show no social gradients with level of educational attainment. The highest levels of obesity and pre-obesity were found among those with intermediate levels of education.

# Women overweight at ages 18-44 by level of educational attainment, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

For the EU as a whole, there is a social gradient in both pre-obesity and obesity among women aged 18 to 44. Among those with lower levels of educational attainment, 24.1 percent are pre-obese. This figure falls to 17.6 per cent among those with tertiary education. The comparable figures for obesity are 14.3 and 7.7 per cent.

#### **INFANT MORTALITY**

No EU harmonised data available by socio-economic status for Ireland

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

There are social gradients across all but one of the nine countries in the EU for which data are available.

### ALCOHOL CONSUMPTION DURING PREGNANCY

No EU harmonised data available by socio-economic status

#### FOETAL ALCOHOL SPECTRUM DISORDER

No EU harmonised data available by socio-economic status

#### BREAST FEEDING AND COMPLIMENTARY FEEDING

No EU harmonised data available by socio-economic status

### SUGAR SWEETENED BEVERAGES IN EARLY CHILDHOOD

No EU harmonised data available by socio-economic status

# SALT CONSUMPTION IN EARLY CHILDHOOD

No EU harmonised data available by socio-economic status

# SATURATED FAT CONSUMPTION IN EARLY CHILDHOOD

No EU harmonised data available by socio-economic status

#### FRUIT CONSUMPTION IN EARLY CHILDHOOD

No EU harmonised data available by socio-economic status

### VEGETABLE CONSUMPTION IN EARLY CHILDHOOD

No EU harmonised data available by socio-economic status

#### OVERWEIGHT IN EARLY CHILDHOOD

No EU harmonised data available by socio-economic status for Ireland

# INEQUALITIES IN THE EU AS A WHOLE

In the majority of the nine countries in the EU for which data are available, at ages four to seven, children whose mothers attained post-secondary education are less likely to be either obese or pre-obese than those whose mothers have lower levels of educational attainment.

# B) LIFECOURSE STAGE - AGES 11 TO 15

The Health Behaviour of School Age Children (HBSC) survey 2013/2014 is the principal source of information at ages 11 to 15. To derive their Family Affluence Scale (FAS) the survey used a six-item assessment of common material assets or activities. Responses were scored and summed to form a summary score.

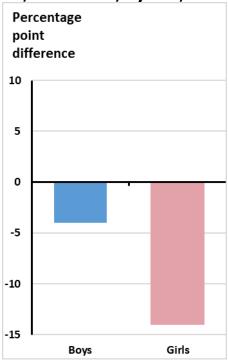
Additional information is available from ESPAD on alcohol consumption and is presented in the next section.

# SUGAR SWEETENED BEVERAGES AT AGES 11 TO 15

### INEQUALITIES WITHIN COUNTRY

The data from the HBSC survey show that daily soft drink consumption is more common among low family affluence groups than high family affluence groups at ages 11 to 15 in Ireland. There is a 14 percentage point difference for girls. The smaller difference for boys is not statistically significant.

Percentage point difference in prevalence of drinking soft-drinks at least once a day between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

The HBSC survey does not provide estimates for the EU as a whole. However, soft drink consumption is significantly related to low family affluence for girls in nearly half of EU countries for which these data are available. For boys, the pattern differs between EU countries with few countries showing significant differences.

# SALT CONSUMPTION AT AGES 11 TO 15

No EU harmonised data available by socio-economic status

# SATURATED FAT CONSUMPTION AT AGES 11 TO 15

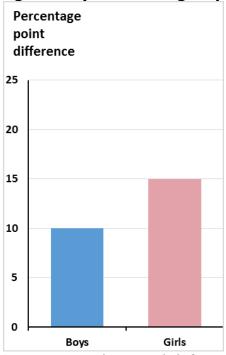
No EU harmonised data available by socio-economic status

### FRUIT CONSUMPTION AT AGES 11 TO 15

# INEQUALITIES WITHIN COUNTRY

The HBSC data suggest that daily fruit consumption is more common among high family affluence groups than low family affluence groups at ages 11 to 15 in Ireland. There is a 10 and 15 percentage point difference for boys and girls, respectively.

# Percentage point difference in daily fruit consumption between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

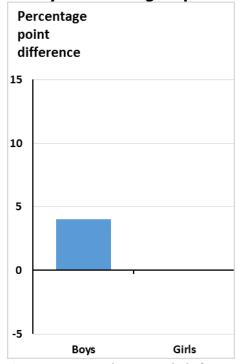
The HBSC survey does not provide estimates for the EU as a whole. However, fruit consumption is significantly related to family affluence across most EU countries for which these data are available.

# PHYSICAL ACTIVITY AT AGES 11 TO 15

#### INEQUALITIES WITHIN COUNTRY

The HBSC survey data suggest that there is no difference in moderate or vigorous physical activity in Ireland between family affluence groups among girls at ages 11 to 15. The difference among boys is not statistically significant.

Percentage point difference in prevalence of reporting at least one hour of moderate or vigorous physical activity daily, between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

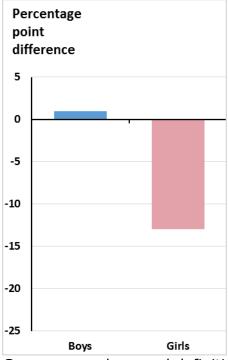
The HBSC survey does not provide estimates for the EU as a whole. However, physical activity is significantly related to family affluence in around half of EU countries for which these data are available. In these countries it is more common among both boys and girls in high family affluence groups than in low ones.

# OVERWEIGHT AT AGES 11 TO 15

# INEQUALITIES WITHIN COUNTRY

The data from the HBSC survey show that, for girls, being overweight is more common among low family affluence groups than high family affluence groups at ages 11 to 15 in Ireland. There is a 13 percentage point difference for girls. The small difference for boys is not statistically significant.

# Percentage point difference in those overweight between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

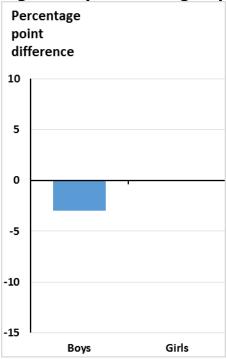
The HBSC survey does not provide estimates for the EU as a whole. However, being overweight is significantly related to family affluence across most EU countries for which these data are available.

# WEEKLY ALCOHOL CONSUMPTION AT AGES 11 TO 15

# INEQUALITIES WITHIN COUNTRY

The HBSC survey data suggest that there is no difference in weekly use of alcohol in Ireland between family affluence groups among girls at ages 11 to 15. The difference among boys is not statistically significant.

Percentage point difference in weekly use of alcohol between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

The HBSC survey does not provide estimates for the EU as a whole. Weekly alcohol consumption is not significantly related to family affluence in the majority of EU countries for which these data are available.

# C) LIFECOURSE STAGE - AGES 15 TO 24

#### ALCOHOL CONSUMPTION REPORTED AT AGES 15 AND 16

The main purpose of the European School Survey Project on Alcohol and Other Drugs (ESPAD) project is to collect comparable data on substance use among 15 to 16 year- old students in as many European countries as possible. The target group consists of students who turn 16 during the year of data collection, which in 2011 meant students born in 1995. The surveys are conducted in schools in the participating country, during the same period of time and using a common methodology.

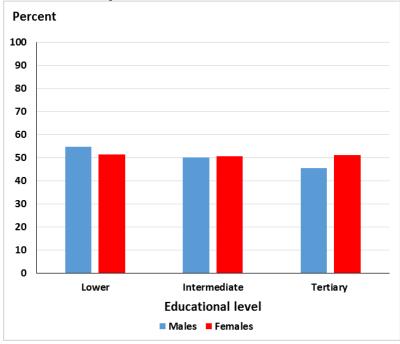
The ESPAD survey was not conducted in all EU member States in 2011 – no ESPAD data are available for Austria, Germany, Luxembourg and Spain for 2011. However, it did cover 23 Member States as well as Flanders (in Belgium). It is therefore possible to compare figures for Ireland to the average for all survey participants in the EU.

#### DRANK ALCOHOL IN THE LAST MONTH

# INEQUALITIES WITHIN COUNTRY

In Ireland, there is a social gradient in the percentage of male students aged 15 to 16 years who drank alcohol in the preceding month – the percentage decreased with increasing level of maternal educational attainment. Among female students at these ages, the percentage who drank alcohol in the preceding month differed little by level of maternal educational attainment.

# Percentage of 15 and 16 year old students who drank alcohol in the last month by level of maternal educational attainment and sex, 2011



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

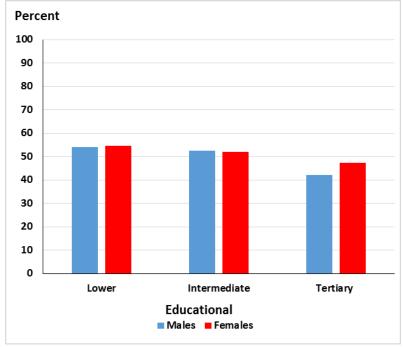
For both males and females, the percentage of participating EU students aged 15 to 16 years who drank alcohol in the preceding month was least among those whose mothers had a lower level of educational attainment.

# DRUNK IN LIFETIME

# INEQUALITIES WITHIN COUNTRY

In Ireland, there is a social gradient in the percentage of male and female students aged 15 to 16 years who had ever been drunk in their lifetime - the percentages decreased with increasing level of maternal educational attainment. For males and females there were 12 and seven percentage point differences, respectively, between those whose mothers had lower levels of educational attainment and those whose mothers had tertiary education.

# Percentage of 15 and 16 year old students who had ever been drunk by level of maternal educational attainment and sex, 2011



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

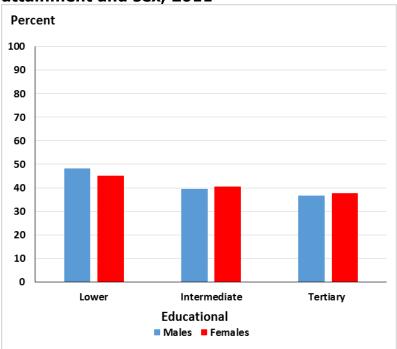
The percentage of participating EU students aged 15 to 16 years who had ever been drunk in their lifetime differed little by level of maternal educational attainment. For both males and females, it was slightly greater for those whose mothers had intermediate levels of educational attainment and slightly lower for those whose mothers had a tertiary education.

# HEAVY DRINKING IN THE LAST MONTH

# INEQUALITIES WITHIN COUNTRY

In Ireland, there is a social gradient in the percentage of male and female students aged 15 to 16 years who had five or more drinks on one occasion in the previous month – the percentages decreased with increasing level of maternal educational attainment. For males and females there were 12 and seven percentage point differences respectively, between those whose mothers had lower levels of educational attainment and those whose mothers had tertiary education.

Percentage of 15 and 16 year old students who drank heavily on at least one occasion in the last month by level of maternal educational attainment and sex, 2011



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

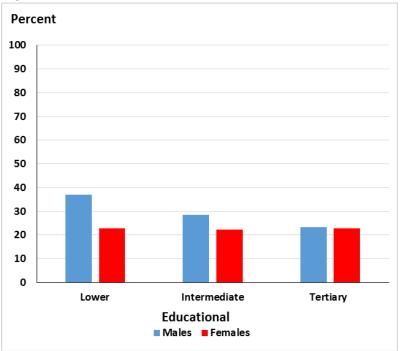
The percentage of participating EU students aged 15 to 16 years who had five or more drinks on one occasion in the previous month decreased with increased level of maternal educational attainment, with a six percentage point difference between lower levels of maternal educational attainment and tertiary education for both males and females.

# GOT DRUNK AT AGE 14 OR LESS

# INEQUALITIES WITHIN COUNTRY

In Ireland, there is a social gradient in the percentage of male students aged 15 to 16 years who got drunk at age 14 or less – the percentage decreased with increasing level of maternal educational attainment. Among female students at these ages, the percentage who got drunk at age 14 or less differed little by level of maternal educational attainment.

# Percentage of 15 and 16 year old students who had ever been drunk at age 14 or less by level of maternal educational attainment and sex, 2011



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

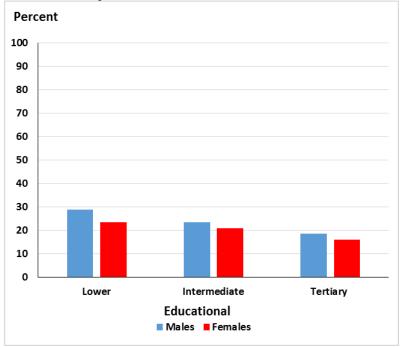
The percentage of participating EU students aged 15 to 16 years who got drunk at age 14 or less differed little by level of maternal educational attainment for both males and females. For both males and females, it was slightly greater for those whose mothers had intermediate levels of educational attainment and slightly lower for those whose mothers had a tertiary education.

# FIRST DRANK ALCOHOL AT AGE 12 OR EARLIER

# INEQUALITIES WITHIN COUNTRY

In Ireland, there is a social gradient in the percentage of male and female students aged 15 to 16 years who had first drunk alcohol at age 12 or less - the percentages decreased with increasing level of maternal educational attainment. The difference was between ten and eight percentage points lower among those whose mothers had tertiary levels of educational attainment than those with lower educational attainment.

# Percentage of 15 and 16 year old students who drank alcohol at age 12 or earlier by level of maternal educational attainment and sex, 2011



Sources, numbers and definitions: See Annex

### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

The percentage of participating EU students aged 15 to 16 years who had first drunk alcohol at age 12 or less decreased with increased level of maternal educational attainment. Among males and females, it was five and six percentage points, respectively, lower among those whose mothers had a tertiary education than among those whose mothers had lower levels of educational attainment.

#### **DIET AND EXERCISE AT AGES 15 TO 24**

The European Health Interview Survey (EHIS) is the principal source of information at ages 15 and over. The survey consists of four modules on health status, health care use, health determinants and socio-economic background variables. EHIS targets the population aged at least 15 and living in private households.

#### SUGAR CONSUMPTION AT AGES 15 TO 24

No EU harmonised data available by socio-economic status

#### SALT CONSUMPTION AT AGES 15 TO 24

No EU harmonised data available by socio-economic status

# SATURATED FAT CONSUMPTION AT AGES 15 TO 24

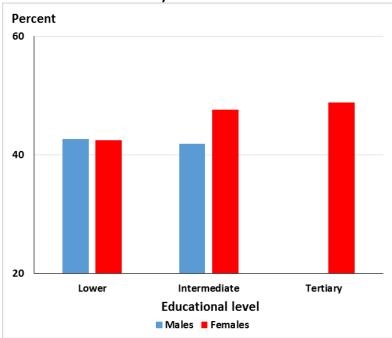
No EU harmonised data available by socio-economic status

# FRUIT CONSUMPTION AT AGES 15 TO 24

#### INEQUALITIES WITHIN COUNTRY

The data for daily fruit consumption among women at ages 15 to 24 in Ireland suggest that there is a social gradient by education. Fruit consumption at least daily increases with increased level of educational attainment (although many in this age group will not have attained their final lifetime level of education). Data are not available for men with tertiary education and there is little difference in daily fruit consumption at other levels of educational attainment.

# Fruit consumption at least daily at ages 15 to 24 by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

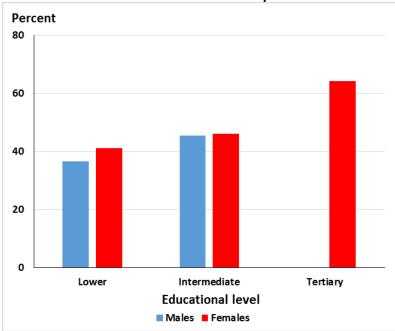
Data from EHIS for the EU as a whole suggest that there is a consistent gradient in fruit consumption among young women aged 15 to 24, with those who attained a tertiary level of education most likely to eat fruit at least daily. Among young men, those with intermediate levels of educational attainment were least likely to eat fruit at least daily. However, many in this age group will not have attained their final lifetime level of educational attainment.

# VEGETABLE CONSUMPTION AT AGES 15 TO 24

# INEQUALITIES WITHIN COUNTRY

The data for daily vegetable consumption among women at ages 15 to 24 in Ireland suggest that there is a social gradient by education. Vegetable consumption at least daily increases with increased level of educational attainment (although many in this age group will not have attained their final lifetime level of education). Data are not available for men with tertiary education - however those with intermediate levels of educational attainment are more likely to consume vegetables daily than those with lower levels of educational attainment.

# Vegetable consumption at least daily at ages 15 to 24 by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

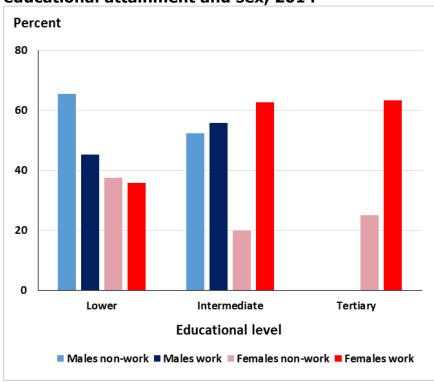
Data from EHIS for the EU as a whole suggest that there are consistent gradients in vegetable consumption among young men and women aged 15 to 24, with those who attained a tertiary level of education most likely to eat fruit at least daily. However, many in this age group will not have attained their final lifetime level of educational attainment.

# PHYSICAL ACTIVITY AT AGES 15 TO 24

# INEQUALITIES WITHIN COUNTRY

Physical activity, both in-work and outside work, is recorded in EHIS. Neither shows a consistent social gradient with education in Ireland at ages 15 to 24 (although many in this age group will not have attained their final lifetime level of education). Those with lower levels of educational attainment have the highest prevalence of in-work physical activity and the lowest prevalence outside work for both men and women. However, data are not available for men with tertiary education.

# Work and non-work related physical activity at ages 15 to 24 level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

Physical activity recorded in EHIS shows no clear relationship between in-work physical activity and educational attainment level, at ages 15 to 24 across the EU as a whole. Those with intermediate levels of educational attainment are most likely to engage in moderate or heavy physical activity in-work and those with lower levels of attainment least likely to do so. Physical activity outside work is more common among young men with lower levels of educational attainment than among those with intermediate levels. For young women, the highest levels are among those who had attained a tertiary level of education at this age.

Physical activity outside work similarly shows no clear relationship with educational attainment level, at ages 15 to 24 across the EU as a whole. Those with intermediate levels of educational attainment are least likely to engage in significant physical activity outside work at these ages.

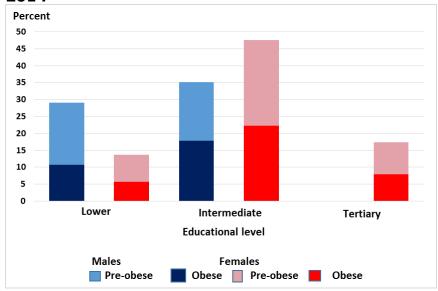
Many in this age group will not have attained their final lifetime level of educational attainment.

# OVERWEIGHT AT AGES 15 TO 24

#### INEQUALITIES WITHIN COUNTRY

There is no social gradient in either obesity (equivalent to BMI of at least 30 at age 19) or pre-obesity (equivalent to BMI of at least 25 but less than 30 at age 19) in Ireland at ages 15 to 24 for either men or women (although many in this age group will not have attained their final lifetime level of education). For both men and women at ages 15 to 24 obesity is most common among those with intermediate levels of educational attainment, although there are no data for men with tertiary education. Among women, the highest level of pre-obesity is also among those with intermediate levels of educational attainment.

# Overweight at ages 15 to 24 by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

In the EU as a whole, at ages 15 to 24, EHIS data suggest that both pre-obesity (equivalent to BMI of at least 25 but less than 30 at age 19) and obesity equivalent to (BMI of 30 or more at age 19) are generally more common among young men and women with intermediate levels of educational attainment than at other levels of attainment. Many in this age group will not have attained their final lifetime level of education.

# D) LIFECOURSE STAGE - ADULT BEHAVIOUR

# SUGAR CONSUMPTION IN ADULTS

No EU harmonised data available by socio-economic status

# SALT CONSUMPTION IN ADULTS

No EU harmonised data available by socio-economic status

# SATURATED FAT CONSUMPTION IN ADULTS

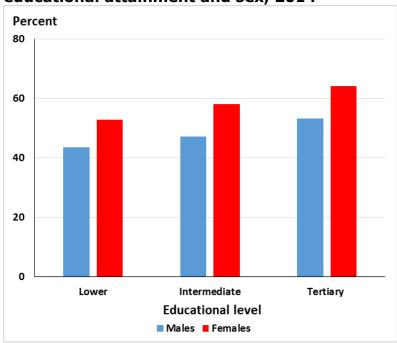
No EU harmonised data available by socio-economic status

# FRUIT CONSUMPTION AT AGES 18 AND OVER

# INEQUALITIES WITHIN COUNTRY

Data from EHIS suggests that there is a social gradient in fruit consumption in Ireland for both men and women aged 18 and over, with percentages consuming fruit at least daily increasing with level of educational attainment. For men and women there were 10 and 11 percentage point differences, respectively, between those with lower levels of educational attainment and those with tertiary education.

Fruit consumption at least daily at ages 18 and over by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

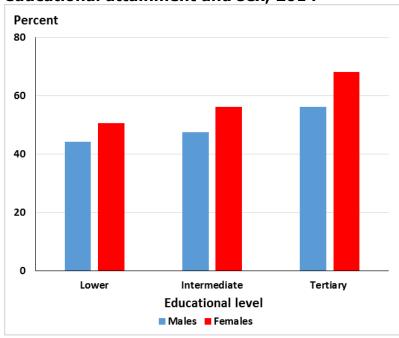
Data from EHIS for the EU as a whole suggest that those with intermediate levels of educational attainment were least likely to eat fruit at least daily at ages 18 and over, with those who attained a tertiary level of education generally most likely to eat fruit at least daily.

# VEGETABLE CONSUMPTION AT AGES 18 AND OVER

### INEQUALITIES WITHIN COUNTRY

Data from EHIS suggests that there is a social gradient in vegetable consumption in Ireland for both men and women aged 18 and over, with levels of consumption increasing with the level of education attained. For men and women there were 12 and 18 percentage point differences, respectively, between those with lower levels of educational attainment and those with tertiary education.

# Vegetable consumption at least daily at ages 18 and over by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

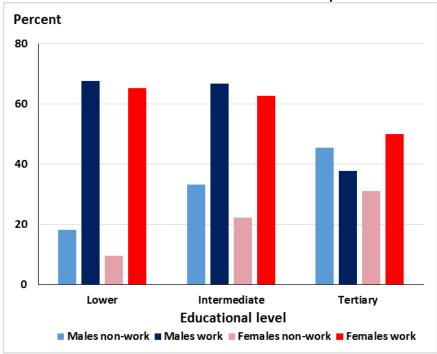
Data from EHIS for the EU as a whole suggest that those with intermediate levels of educational attainment were least likely to eat vegetables at least daily at ages 18 and over, with those who attained a tertiary level of education generally most likely to eat vegetables at least daily.

#### PHYSICAL ACTIVITY AT AGES 18 AND OVER

# INEQUALITIES WITHIN COUNTRY

Data from EHIS show that there is a consistent social gradient in physical activity outside work among men and women in Ireland at ages 18 and over. Prevalence for both increases with level of educational attainment. Conversely, the prevalence of in-work physical activity decreases with level of educational attainment.

# Work and non-work related physical activity at ages 18 and over by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

#### COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

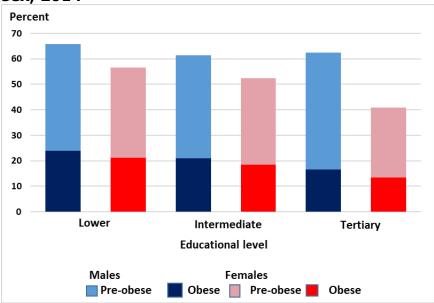
In the EU as a whole, EHIS data suggest that for both men and women there is a marked social gradient in physical activity outside work – the proportion engaging in physical exercise outside work increases with increased levels of educational attainment. Physical activity at work among men and women, aged 18 and over, is most common among those with intermediate levels of educational attainment and least common among those with tertiary education.

#### OVERWEIGHT AT AGES 18 AND OVER

# INEQUALITIES WITHIN COUNTRY

The EHIS data suggest that there is a social gradient in obesity (BMI of at least 30) at ages 18 and over for both men and women in Ireland – the prevalence of obesity decreases with increased level of educational attainment. There is, similarly, a gradient in female pre-obesity (BMI of at least 25 but less than 30) at ages 18 and over. Conversely, for men at ages 18 and over, pre-obesity is most common among men with tertiary education.

# Overweight at ages 18 and over by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

For the EU as a whole, there is a social gradient for both men and women in both the proportion who are pre-obese (BMI of at least 25 but less than 30) and obese (BMI of 30 or more) based on EHIS data. That is to say, both decrease as level of educational attainment increases. Among men at this age, however, these differences in levels of pre-obesity by level of educational attainment are small.

# CORONARY HEART DISEASE INCIDENCE

No EU harmonised data available by socio-economic status

#### CORONARY HEART DISEASE DEATHS

No EU harmonised data available by socio-economic status

#### CANCER INCIDENCE

No EU harmonised data available by socio-economic status

#### CANCER DEATHS

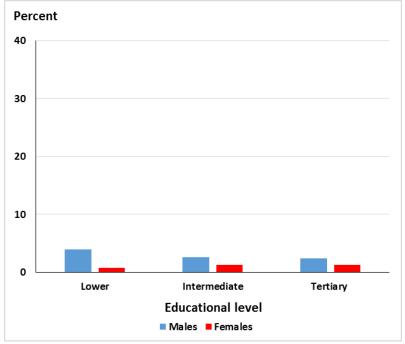
No EU harmonised data available by socio-economic status

#### DAILY ALCOHOL CONSUMPTION AT AGES 18 AND OVER

# INEQUALITIES WITHIN COUNTRY

The EHIS data suggest that there is a social gradient in daily alcohol consumption among men at ages 18 and over in Ireland. The prevalence of daily drinking decreases as level of educational attainment increases. For women, differences by education are small.

# Daily alcohol consumption at ages 18 and over by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

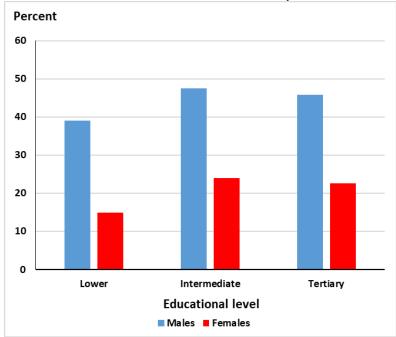
Based on EHIS data, among women aged 18 and over in the EU as a whole, there is a social gradient in the proportion drinking alcohol daily – the figure decreases with the level of education attained. Among men, while the proportion is highest among those with lower levels of educational attainment it is least among those with intermediate levels of educational attainment. The proportion of women drinking every day is around a third of the figure for men.

# HEAVY EPISODIC DRINKING AT AGES 18 AND OVER

# INEQUALITIES WITHIN COUNTRY

The EHIS data suggest that, in Ireland, heavy episodic drinking at least monthly is least common among those with lower levels of educational attainment ages 18 and over, for both men and women.

Heavy episodic drinking at least monthly at ages 18 and over by level of educational attainment and sex, 2014



Sources, numbers and definitions: See Annex

# COMPARISON WITH INEQUALITIES IN THE EU AS A WHOLE

Based on EHIS data in the EU as a whole there are no clear social gradients in the proportion drinking heavily at least monthly for both sexes at ages 18 and over. While those with lower levels of educational attainment are markedly less likely than others to drink heavily at least monthly, proportions for those with intermediate levels of educational attainment are slightly higher than for those with tertiary education. The proportion of women drinking heavily at least monthly is less than half the proportion among men.

# ALCOHOL RELATED CAUTIONS AND ARRESTS

No EU harmonised data available by socio-economic status

# ALCOHOL RELATED DEATHS

No EU harmonised data available by socio-economic status

# RARHA ALCOHOL DATA

The EU Joint Action on Reducing Alcohol Related Harm Standardised European Alcohol Survey (RARHA SEAS) was a comprehensive survey of alcohol consumption and harm conducted in 17 EU countries and two non-EU countries. Survey data was gathered from representative samples of the general populations aged 18-64.

### DAILY ALCOHOL CONSUMPTION AT AGES 18 TO 64

No EU harmonised data by socio-economic status for Ireland

# INEQUALITIES IN THE EU AS A WHOLE

RARHA survey data for the 17 participant EU Member States suggest that there are clear social gradients by educational attainment in the proportions of both men and women aged between 18 and 64 who consume alcohol every day. The gradient is steeper for men than for women and, in each educational attainment category, the proportion of women who drink alcohol daily is less than that for men. Among women with lower levels of educational attainment the proportion drinking every day is less than a third of the figure for their male counterparts.

# HEAVY EPISODIC DRINKING AT LEAST MONTHLY AT AGES 18 TO 64 No EU harmonised data by socio-economic status for Ireland

#### INEQUALITIES IN THE EU AS A WHOLE

RARHA survey data for the 17 participant EU Member States suggest that there is a clear reverse social gradient in the proportion of women aged between 18 and 64 who drink heavily at least monthly. The proportion is least among women with lower levels of educational attainment and greatest among those with tertiary education. Among men the proportion is greatest among those with intermediate levels of educational attainment.

# DATA FOR IRELAND, SOURCES AND DEFINITIONS

# **INCOME INEQUALITY**

**Income** is computed in EU SILC on the basis of the total equivalised disposable income attributed to each member of the household. The data (for each person) are ordered according to the value of the total equivalised disposable income.

# Equivalised mean income in Euros (PPS) at ages 18 and over by level of educational attainment and sex, 2016

|         | Educational attainment level |                   |          | Definition  |
|---------|------------------------------|-------------------|----------|---|
|         | Lower                        | Inter-<br>mediate | Tertiary |   |
| Males   | 16,422                       | 20,136            | 26,830   | Mean equivalised household                          |
| Females | 15,324                       | 18,837            | 25,913   | income (pps) for males and females aged 18 and over |

Source: Eurostat, EU-SILC survey [ilc\_di08]

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=ilc\_di08&lang=en

Accessed 23 March 2018

# Equivalised median income in Euros (PPS) at ages 18 and over by level of educational attainment and sex, 2016

|         | Educational attainment level |                   |          | Definition  |
|---------|------------------------------|-------------------|----------|---|
|         | Lower                        | Inter-<br>mediate | Tertiary |   |
| Males   | 14,494                       | 18,945            | 23,669   | Median equivalised household                        |
| Females | 13,489                       | 16,542            | 24,130   | income (pps) for males and females aged 18 and over |

Source: Eurostat, EU-SILC survey [ilc\_di08]

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=ilc\_di08&lang=en

Accessed 23 March 2018

# Self reported health by level of educational attainment and income

The European Statistics of Income and Living Condition (EU-SILC) survey contains a small module on health, composed of three variables on health status and four variables on unmet needs for health care.

The variables on **health status** represent the so called Minimum European Health Module (MEHM), and measures three different concepts of health:

- Self-perceived health
- Chronic morbidity (people having a long-standing illness or health problem)
- Activity limitation disability (self-perceived long-standing limitations in usual activities due to health problems)

In this report the first two health status concepts are used since these are the ones most likely to result from behaviours, rather than inherited disorders, accidents and the relationship between health status and the availability of aids to daily living that mitigate health conditions.

**Educational attainment level**: the level of education attainment of individuals is classified in EU SILC according to the International Standard Classification of Education (ISCED) version of 1997 and are grouped as follows:

- Pre-primary, primary and lower secondary education
- Upper secondary and post-secondary non-tertiary education
- First and second stage of tertiary education

**Income quintile group** is computed in EU SILC on the basis of the total equivalised disposable income attributed to each member of the household.

The data (of each person) are ordered according to the value of the total equivalised disposable income. Four cut-point values (the so-called quintile cut-off points) of income, dividing the survey population into five groups equally represented by 20 % of individuals each, are found:

- First quintile group of equivalised income
- Second quintile group of equivalised income
- Third quintile group of equivalised income
- Fourth quintile group of equivalised income
- Fifth quintile group of equivalised income.

The first quintile group represents 20 % of population with lowest income and the fifth quintile group 20 % of population with highest income.

Age standardised percentage with good or very good self-perceived health by level of educational attainment and sex, 2016

|         | Educational attainment level |                   |          | Definition   |
|---------|------------------------------|-------------------|----------|--|
|         | Lower                        | Inter-<br>mediate | Tertiary |  |
| Males   | 72.38                        | 82.07             | 88.28    | Percent reporting good or very   |
| Females | 70.57                        | 82.17             | 87.90    | good health, standardised for age using the European Standard Population |

Source: Eurostat [hlth\_silc\_02]

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_silc\_02&lang=en Accessed 18 March 2018

Note. Age standardisation for males and females in Ireland is based on ages 16 to 24, then ten-year age groups up to age 74 and then 75 and over.

Age standardised percentage with good or very good self-perceived

|  | health by | y income | quintile | and | sex, | 2016 |
|--|-----------|----------|----------|-----|------|------|
|--|-----------|----------|----------|-----|------|------|

| _       | Incom | ne quintile | 2     | Definition |       |   |
|---------|-------|-------------|-------|------------|-------|---|
|         | First | Second      | Third | Fourth     | Fifth |   |
| Males   | 68.37 | 77.04       | 79.84 | 83.61      | 90.96 | Percent reporting good or very good health,                       |
| Females | 72.76 | 76.79       | 81.27 | 84.69      | 90.91 | standardised for age<br>using the European<br>Standard Population |

Source: Eurostat [hlth\_silc\_10]

 $http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_silc\_10\&lang=en$ 

Accessed 18 March 2018

Note. Age standardisation for males and females in Ireland is based on ages 16 to 24, then ten-year age groups up to age 74 and then 75 and over.

## Age standardised percentage reporting a long-standing illness or health problem by level of educational attainment and sex, 2016

|         | Educational attainment level |         |          | Definition   |
|---------|------------------------------|---------|----------|--|
|         | Lower                        | Inter-  | Tertiary |  |
|         |                              | mediate | ,        |  |
| Males   | 39.33                        | 27.05   | 22.18    | Percent reporting a long-  |
| Females | 40.59                        | 27.40   | 23.00    | standing illness or health<br>problem, standardised for age<br>using the European Standard<br>Population |

Source: Eurostat [hlth\_silc\_05]

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_silc\_05&lang=en

Accessed 18 March 2018

Note. Age standardisation for males and females in Ireland is based on ages 16 to 24, then ten-year age groups up to age 74 and then 75 and over.

Age standardised percentage reporting a long-standing illness or health problem by income quintile and sex, 2016

|         | Incom          | e quintile      |       | Definition      |                |  |
|---------|----------------|-----------------|-------|-----------------|----------------|--|
| Males   | First<br>42.54 | Second<br>34.91 | Third | Fourth<br>25.45 | Fifth<br>19.66 | Percent reporting a  |
| Males   | 42.34          | 34.91           | 20.21 | 23.43           | 19.00          | Percent reporting a long-standing illness or   |
| Females | 36.80          | 33.86           | 28.73 | 26.00           | 19.77          | health problem,<br>standardised for age<br>using the European<br>Standard Population |

Source: Eurostat [hlth silc 11]

 $http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_silc\_11\&lang=enein$ 

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Accessed 18 March 2018

Note. Age standardisation for males and females in Ireland is based on ages 16 to 24, then ten-year age groups up to age 74 and then 75 and over.

## Age standardised percentage reporting that they have diabetes by level of educational attainment and sex, 2014

|         | Educational attainment level |                   |          | Definition   |
|---------|------------------------------|-------------------|----------|--|
|         | Lower                        | Inter-<br>mediate | Tertiary |  |
| Males   | 8.63                         | 6.66              | 5.00     | Percent reporting that   |
| Females | 6.41                         | 4.34              | 2.54     | they have diabetes,<br>standardised for age<br>using the European<br>Standard Population |

Source: Eurostat [hlth silc 05]

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_cd1e&lang=en Accessed 11 October 2018

Note: Age standardisation for males and females in Ireland is based on age groups 15 to 44, 45 to 54, 55 to 64, 65 to 74 and 75 and over.

#### **LIFECOURSE**

#### A) LIFECOURSE STAGE - A GOOD START IN LIFE

**Educational attainment level**: the education attainment levels of individuals are based on data collected in the European Health Interview Survey (EHIS) classified according to the International Standard Classification of Education (ISCED) 2011 and are grouped as above.

#### Women overweight at ages 18-44 by level of educational attainment, 2014

|           | Educational attainment level |                   |          | Definition   |
|-----------|------------------------------|-------------------|----------|--|
|           | Lower                        | Inter-<br>mediate | Tertiary |  |
| Pre-obese | 22.3                         | 32.2              | 24.5     | Percent with a BMI of at least 25 but less than 30 |
| Obese     |                              |                   |          | Percent with a BMI of 30                           |
|           | 19.5                         | 21.5              | 11.6     | or more  |

Source: Eurostat, [hlth\_ehis\_bm1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_bm1e&lang=en Accessed 25 April 2017

#### B) LIFECOURSE STAGE - AGES 11 TO 15

The Health Behaviour of School Age Children (HBSC) survey 2013/2014 is the principal source of information at ages 11 to 15. To derive their Family Affluence Scale (FAS) the survey used a six-item assessment of common material assets or activities as follows:

- (1) summing the score on responses to the following six items:
  - Does your family own a car, van or truck? (Responses: no, one, two or more);
  - Do you have your own bedroom for yourself? (No, yes);
  - How many times did you and your family travel out of [insert country/region name] for a holiday/vacation last year? (Not at all, once, twice, more than twice);
  - How many computers do your family own? (None, one, two, more than two);
  - Does your family have a dishwasher at home? (No, yes); and
  - How many bathrooms (rooms with a bath/shower or both) are in your home? (None, one, two, more than two).
- (2) comparing the individual's summary score from the FAS to all other scores in the respective country/region. This relative affluence score is then used to identify groups of young people in the lowest 20% (low affluence), middle 60% (medium affluence) and highest 20% (high affluence) in each country and region.

Percentage point difference in prevalence of drinking soft-drinks at least once a day between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14

|           | Percentage point difference | Definition  |  |
|-----------|-----------------------------|---|--|
| Boys      | -4                          | Difference in prevalence between those in                                   |  |
| Girls     | -14                         | the low and high affluence groups based on the Family Affluence Scale (FAS) |  |
| Source: H | Source: HBSC 2016           |   |  |

https://gateway.euro.who.int/en/indicators/hbsc-indicators/hbsc\_6-difference-indrinking-soft-drinks-by-fas/ Accessed 14 March 2017

Percentage point difference in daily fruit consumption between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14

|       | Percentage point difference | Definition  |
|-------|-----------------------------|---|
|       | point amerence              |   |
| Boys  | 10                          | Difference in prevalence between those in                                   |
| Girls | 15                          | the low and high affluence groups based on the Family Affluence Scale (FAS) |
|       |                             |   |

Source: HBSC 2016

https://gateway.euro.who.int/en/indicators/hbsc-indicators/hbsc 4-difference-in-

eating-fruit-by-fas

Accessed 14 March 2017

Percentage point difference in prevalence of reporting at least one hour of moderate or vigorous physical activity daily, between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14

|       | Percentage       | Definition                                |
|-------|------------------|---|
|       | point difference |   |
| Boys  | 4                | Difference in prevalence between those in |
| Girls | 0                | the low and high affluence groups based   |
|       |                  | on the Family Affluence Scale (FAS)       |

Source: HBSC 2016

https://gateway.euro.who.int/en/indicators/hbsc-indicators/hbsc\_12-difference-inmoderate-to-vigorous-physical-activity-by-fas/

Accessed 14 March 2017

Percentage point difference in those overweight between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14

| -     | Percentage point difference | Definition  |
|-------|-----------------------------|---|
| Boys  | 1                           | Difference in prevalence between those in                                   |
| Girls | -13                         | the low and high affluence groups based on the Family Affluence Scale (FAS) |

Source: HBSC 2016

https://gateway.euro.who.int/en/indicators/hbsc-indicators/hbsc 83-differences-in-

bmi-by-fas/

Accessed 14 March 2017

# Percentage point difference in weekly use of alcohol between low and high family affluence groups at ages 11, 13 and 15, by sex, 2013/14

|  | Percentage point difference | Definition                                |  |  |
|--|-----------------------------|---|--|--|
| Boys   | -3                          | Difference in prevalence between those in |  |  |
| Girls  | 0                           | the low and high affluence groups based   |  |  |
|  |                             | on the Family Affluence Scale (FAS)       |  |  |
| Source: HBSC 2016  |                             |   |  |  |
| https://gateway.euro.who.int/en/indicators/hbsc_88-differences-in-alcohol- |                             |   |  |  |
| consumption  | ı-by-fas/                   |   |  |  |

#### C) LIFECOURSE STAGE - AGES 15 TO 24

#### ALCOHOL CONSUMPTION REPORTED AT AGES 15 AND 16

The main purpose of the European School Survey Project on Alcohol and Other Drugs (ESPAD) project is to collect comparable data on substance use among 15 to 16 year- old students in as many European countries as possible. The target group consists of students who turn 16 during the year of data collection, which in 2011 meant students born in 1995. The surveys are conducted in schools in the participating country, during the same period of time and using a common methodology.

**Educational attainment level**: the level of education attainment of mothers is used here, grouped using the classification in ESPAD as follows:

Lower

Completed primary school or less Some secondary school

Intermediate

Completed secondary school

Accessed 14 March 2017

Tertiary

Some college or university Completed college or university

Percentage of 15 and 16 year old students who drank alcohol in the last month by level of maternal educational attainment and sex, 2011

|         | Educational attainment level |                         |      | Definition                                |
|---------|------------------------------|-------------------------|------|---|
|         | Lower                        | Inter- Tertiary mediate |      |   |
|         |                              | mediate                 |      |   |
| Males   | 54.8                         | 50.1                    | 45.5 | Percent who had any alcohol               |
| Females | 51.3                         | 50.5                    | 51.2 | beverage to drink during the last 30 days |
|         |                              |                         |      |   |

Source: ESPAD

http://www.espad.org/ Extracted 13 April 2018 Percentage of 15 and 16 year old students who had ever been drunk by level of maternal educational attainment and sex, 2011

|         | Educational attainment level |                   |          | Definition   |
|---------|------------------------------|-------------------|----------|--|
|         | Lower                        | Inter-<br>mediate | Tertiary |  |
| Males   | 54.1                         | 52.4              | 42.0     | Percent who have been  |
| Females | 54.5                         | 52.0              | 47.4     | intoxicated from drinking alcoholic beverages, for example staggered when walking, not being able to speak properly, throwing up or not remembering what happened, in their lifetime |

Source: ESPAD

http://www.espad.org/ Extracted 13 April 2018

# Percentage of 15 and 16 year old students who drank heavily on at least one occasion in the last month by level of maternal educational attainment and sex, 2011

|         | Educational attainment level |                   |          | Definition                                     |
|---------|------------------------------|-------------------|----------|--|
|         | Lower                        | Inter-<br>mediate | Tertiary |  |
| Males   | 48.3                         | 39.4              | 36.7     | Percent who had five or more                   |
| Females | 45.2                         | 40.5              | 37.8     | drinks on one occasion during the last 30 days |

Source: ESPAD

http://www.espad.org/ Extracted 13 April 2018

# Percentage of 15 and 16 year old students who had ever been drunk at age 14 or less by level of maternal educational attainment and sex, 2011

|         | Educational attainment level |                   |          | Definition                                |
|---------|------------------------------|-------------------|----------|---|
|         | Lower                        | Inter-<br>mediate | Tertiary |   |
| Males   | 37.1                         | 28.5              | 23.4     | Percent who had first got drunk on        |
| Females | 22.7                         | 22.3              | 22.7     | alcohol when aged 14 years of age or less |

Source: ESPAD

http://www.espad.org/ Extracted 13 April 2018

# Percentage of 15 and 16 year old students who drank alcohol at age 12 or earlier by level of maternal educational attainment and sex, 2011

|         | Educational attainment level |                         |      | Definition   |
|---------|------------------------------|-------------------------|------|--|
|         | Lower                        | Inter- Tertiary mediate |      |  |
| Males   | 28.7                         | 23.4                    | 18.5 | Percent who first drank at least                                     |
| Females | 23.5                         | 20.8                    | 16.0 | one glass of alcoholic beverage<br>when aged 12 years of age or less |

Source: ESPAD

http://www.espad.org/ Extracted 13 April 2018

#### **DIET AND EXERCISE AT AGES 15 TO 24**

The European Health Interview Survey (EHIS) is the principal source of information at ages 15 and over. The survey consists of four modules on health status, health care use, health determinants and socio-economic background variables. EHIS targets the population aged at least 15 and living in private households.

**Educational attainment level**: the education attainment levels of individuals in EHIS are classified according to the International Standard Classification of Education (ISCED) 2011 and are grouped as follows:

- Lower: less than primary, primary and lower secondary education
- Intermediate: upper secondary and post-secondary non-tertiary
- Tertiary: Tertiary education

## Fruit consumption at least daily at ages 15 to 24 by level of educational attainment and sex, 2014

|         | Educational attainment level |         |          | Definition                       |
|---------|------------------------------|---------|----------|----------------------------------|
|         | Lower                        | Inter-  | Tertiary |                                  |
|         |                              | mediate |          |                                  |
| Males   | 42.7                         | 41.9    | :        | Percent consuming fruit at least |
| Females | 42.5                         | 47.7    | 48.9     | daily                            |

Source: Eurostat [hlth\_ehis\_fv1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_fv1e&lang=en Accessed 26 April 2017

#### Vegetable consumption at least daily at ages 15 to 24 by level of educational attainment and sex, 2014

|         | Educational attainment level |         |      | Definition                   |
|---------|------------------------------|---------|------|------------------------------|
|         | Lower Inter- Tertiary        |         |      |                              |
|         |                              | mediate |      |                              |
| Males   | 36.6                         | 45.4    | :    | Percent consuming vegetables |
| Females | 41.2                         | 46.1    | 64.3 | at least daily               |

Source: Eurostat [hlth\_ehis\_fv1e], European Health Interview Survey

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_fv1e&lang=en Accessed 26 April 2017

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# Work and non-work related physical activity at ages 15 to 24 by level of educational attainment and sex, 2014

|                                | Education  | nal attain        | ment level | Definitions  |
|--------------------------------|------------|-------------------|------------|--|
|                                | Lower      | Inter-<br>mediate | Tertiary   |  |
| Non-work rela                  | ated physi | ical activity     |            |  |
| Males                          | 65.4       | 52.4              | :          | Percent engaging in health-  |
| Females                        | 37.5       | 19.9              | 25.0       | enhancing aerobic physical activity of 150 or more minutes per week outside work |
| work-related physical activity |            |                   |            |  |
| Males                          | 45.1       | 55.8              | :          | Percent engaging in moderate or  |
| Females                        | 35.8       | 62.6              | 63.3       | heavy physical activity in work.   |

Source: Eurostat, [hlth\_ehis\_pe1e, hlth\_ehis\_pe2e], European Health Interview Survey

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_pe1e&lang=en http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_pe2e&lang=en Accessed 17 April 2017

#### Overweight at ages 15 to 24 by level of educational attainment and sex, 2014

|           | Education | nal attainmer     | nt level | Definitions   |
|-----------|-----------|-------------------|----------|---|
|           | Lower     | Inter-<br>mediate | Tertiary |   |
| Pre-obese |           |                   |          |   |
| Males     | 18.3      | 17.4              | :        | Percent with BMI that is                                |
| Females   | 8.0       | 25.3              | 9.5      | equivalent to at least 25<br>but less than 30 at age 19 |
| Obese     |           |                   |          |   |
| Males     | 10.7      | 17.8              | :        | Percent with BMI that is                                |
| Females   | 5.7       | 22.3              | 7.9      | equivalent to 30 or more at age 19                      |

Source: Eurostat, [hlth\_ehis\_bm1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_bm1e&lang=en Accessed 20 April 2017

#### D) LIFECOURSE STAGE - ADULT BEHAVIOUR

The European Health Interview Survey (EHIS) is the principal source of information at ages 15 and over. The survey consists of four modules on health status, health care use, health determinants and socio-economic background variables. EHIS targets the population aged at least 15 and living in private households.

**Educational attainment level**: the education attainment levels of individuals in EHIS are classified according to the International Standard Classification of Education (ISCED) 2011 and are grouped as follows:

- Lower: less than primary, primary and lower secondary education
- Intermediate: upper secondary and post-secondary non-tertiary
- Tertiary: Tertiary education

# Fruit consumption at least daily at ages 18 and over by level of educational attainment and sex, 2014

|         | Educational attainment level |                             |      | Definition                       |
|---------|------------------------------|-----------------------------|------|----------------------------------|
|         | Lower                        | wer Inter- Tertiary mediate |      |                                  |
| Males   | 43.5                         | 47.3                        | 53.2 | Percent consuming fruit at least |
| Females | 52.9                         | 58.1                        | 64.2 | daily                            |

Source: Eurostat [hlth\_ehis\_fv1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_fv1e&lang=en Accessed 26 April 2017

#### Vegetable consumption at least daily at ages 18 and over by level of educational attainment and sex, 2014

|         | Educational attainment level |         |          | Definition                   |
|---------|------------------------------|---------|----------|------------------------------|
|         | Lower                        | Inter-  | Tertiary |                              |
|         |                              | mediate |          |                              |
| Males   | 44.2                         | 47.6    | 56.1     | Percent consuming vegetables |
| Females | 50.6                         | 56.1    | 68.1     | at least daily               |

Source: Eurostat [hlth\_ehis\_fv1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_fv1e&lang=en Accessed 26 April 2017

#### Work and non-work related physical activity at ages 18 and over by level of educational attainment and sex, 2014

|                                | <del>cational a</del>        | ceamme            | ic alla bez |  |
|--------------------------------|------------------------------|-------------------|-------------|--|
|                                | Educational attainment level |                   |             | Definitions  |
|                                | Lower                        | Inter-<br>mediate | Tertiary    |  |
| Non-work rel                   | ated physica                 | al activity       |             |  |
| Males                          | 18.1                         | 33.2              | 45.5        | Percent engaging in health-  |
| Females                        | 9.5                          | 22.3              | 31.0        | enhancing aerobic physical activity of 150 or more minutes per week outside work |
| Work-related physical activity |                              |                   |             |  |
| Males                          | 67.7                         | 66.8              | 37.7        | Percent engaging in moderate or  |
| Females                        | 65.3                         | 62.6              | 50.0        | heavy physical activity in work.   |

Source: Eurostat, [hlth\_ehis\_pe1e, hlth\_ehis\_pe2e], European Health Interview Survey

http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_pe1e&lang=en http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_pe2e&lang=en Accessed 17 April 2017

## Overweight at ages at ages 18 by level of educational attainment and sex, 2014

|           | Education | nal attainmei     | Definitions |                             |  |
|-----------|-----------|-------------------|-------------|-----------------------------|--|
|           | Lower     | Inter-<br>mediate | Tertiary    |                             |  |
| Pre-obese |           |                   |             |                             |  |
| Males     | 41.8      | 40.5              | 46.0        | Percent with BMI at least   |  |
| Females   |           |                   |             | 25 but less than 30 at age  |  |
|           | 35.2      | 33.9              | 27.3        | 19                          |  |
| Obese     |           |                   |             |                             |  |
| Males     | 24.0      | 21.0              | 16.5        | Percent with a BMI of 30 or |  |
| Females   | 21.3      | 18.5              | 13.5        | more                        |  |
|           |           |                   |             |                             |  |

Source: Eurostat, [hlth\_ehis\_bm1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_bm1e&lang=en Accessed 21 February 2017

### Daily alcohol consumption at ages 18 and over by level of educational attainment and sex, 2014

|         | Educat | ional attai | nment level | Definition                   |
|---------|--------|-------------|-------------|------------------------------|
|         | Lower  | Inter-      | Tertiary    |                              |
|         |        | mediate     |             |                              |
| Males   | 3.9    | 2.6         | 2.4         | Percent consuming alcohol at |
| Females | 0.8    | 1.3         | 1.3         | least daily                  |

Source: Eurostat [hlth\_ehis\_al1e], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_al1e&lang=en Accessed 27 April 2017

## Heavy episodic drinking at least monthly at ages 18 and over by level of educational attainment and sex, 2014

|         | Educational attainment level |         |          | Definition                       |
|---------|------------------------------|---------|----------|----------------------------------|
|         | Lower                        | Inter-  | Tertiary |                                  |
|         |                              | mediate | -        |                                  |
| Males   | 39                           | 47.5    | 45.9     | Percent ingesting more than      |
| Females |                              |         |          | 60gm of pure ethanol on a single |
|         | 14.9                         | 24.0    | 22.6     | occasion at least once a month   |

Source: Eurostat [hlth\_ehis\_al3], European Health Interview Survey http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=hlth\_ehis\_al3e&lang=en Accessed 26 July 2017

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