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Growing Up in Scotland: Latest findings from Scottish Government reports

Paul Bradshaw, Line Knudsen and Konstantina Vosnaki ScotCen Social Research

Overview

- Background to the study
- Summary findings from three reports:
 - Overweight and obesity at age 10
 - Changes in language ability over the primary school years
 - Life at age 12



What is GUS?

- Large-scale longitudinal birth and child cohort study involving national samples of children living in Scotland
- Three cohorts:
 - Birth cohort 1: 5217 children, born 2004/05, aged 10.5 months at 1st interview
 - Child cohort: 2859 children, born 2002/03, aged 34.5 months at 1st interview
 - Birth cohort 2: 6127 children, born 2010/11, aged 10.5 months at 1st interview
- Funded by the Scottish Government and running since 2005



Ages and stages (so far...)

Child's age	Cohort/Year of data collection			
	Child cohort	Birth cohort 1	Birth cohort 2	
10 months		2005/06	2010/11	
Age 2		2006/07		
Age 3	2005/06	2007/08	2013	
Age 4	2006/07	2008/09	2014 Web survey	
Age 5	2007/08	2009/10	2015	
Age 6	2008/09	2010/11		
Age 8		2012/13 2013/14 We	b survey	
Primary 6 (Age 10)		2015/16		
S1 (Age 12)		2015/16 2017/18	b survey	
S3 (Age 14)		2019/20		

Sources of information at each age point

	Child's age/school stage									
	10mth	Age 2	Age 3	Age 4	Age 5	Age 6	Age 8	P6/10	S1/12	S3/14
Source of data	BC1 & BC2	BC1	CC, BC1/2			CC, BC1	BC1	BC1	BC1	BC1
Main carer interview										
Partner or Teacher questionnaire		Partner						Teacher	Partner	Partner
Child questionnaire										
Child height and weight measurements										
Cognitive assessments										
Linked admin data - health records										
Linked admin data – education records			Pre-s	school		Primary	School		Seco	ndary

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Growing Up in Scotland: Overweight and obesity at age 10

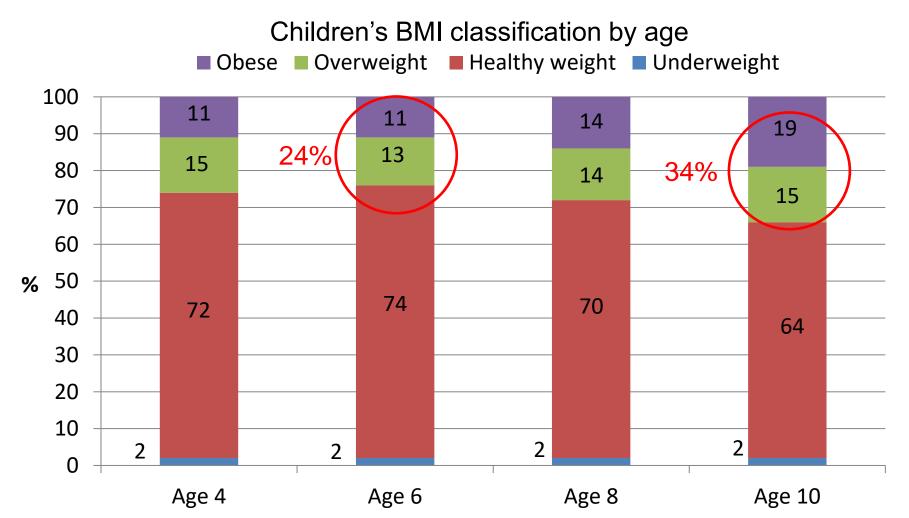
Paul Bradshaw and Stephen Hinchliffe, ScotCen Social Research

Research questions

- What propotion of children are overweight/obese at age 10, compared with age 6?
- What proportion move into and out of healthy weight/overweight/obese categories during that period?
- How does overweight/obesity vary amongst 10 year old children according to demographic and socio-economic characteristics?
- Is there any change in the social gradient of overweight/obesity between age 6 and age 10?
- What other factors are associated with overweight/ obesity at age 10?
- Which factors are associated with a move out of or a move into overweight and obesity between ages 6 and 10?

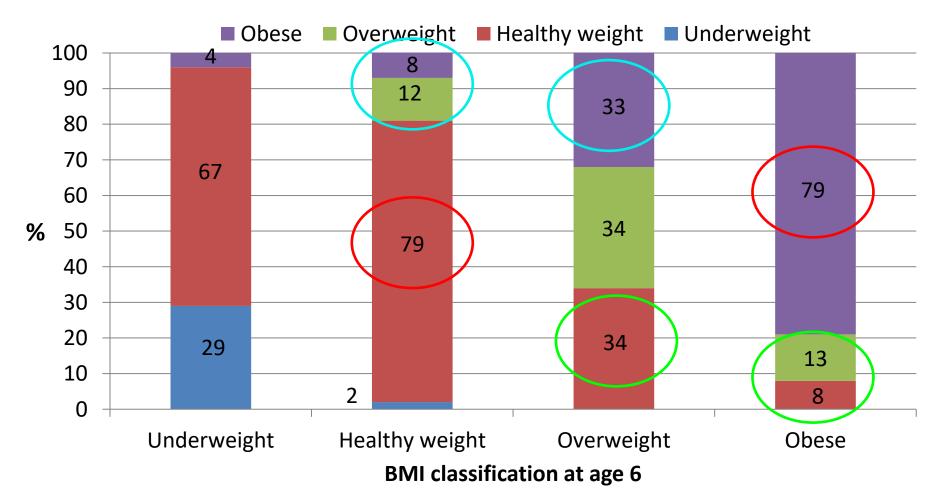


Levels of overweight/obesity increase with age



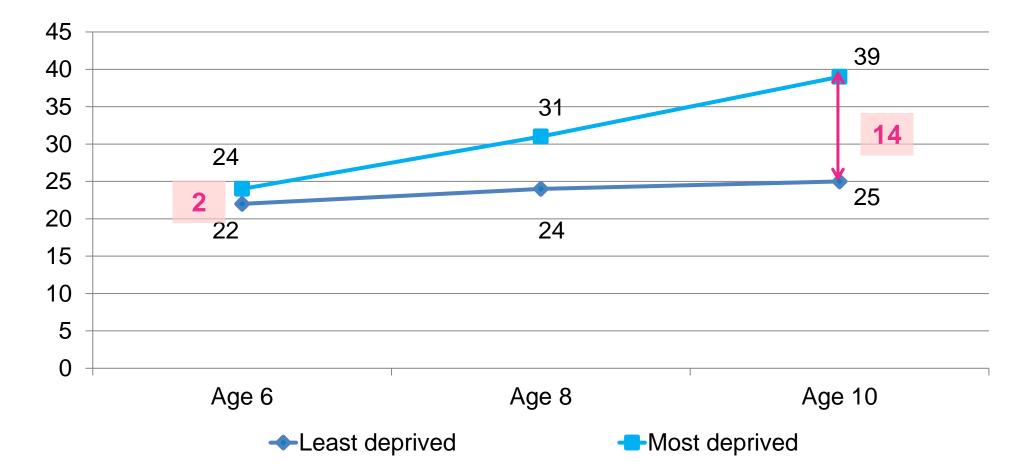
BMI at age 6 strongly associated with BMI at age 10

BMI classification at age 10 by BMI classification at age 6

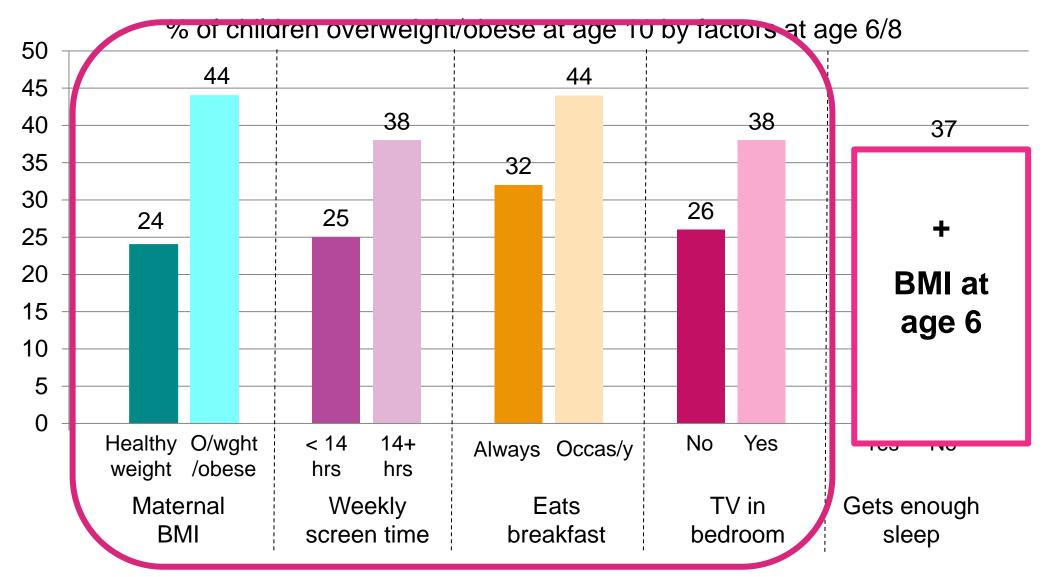


Higher levels of and increase in overweight/obesity amongst more deprived

% of children overweight/obese by SIMD quintile and age



Overweight/obesity associated with other factors



11

Summary

- There is a notable increase in rates of overweight/obesity in children between ages 6 and 10 and an average increase in BMI score for all children
- Inequality in levels of overweight/obesity between children from different social backgrounds – which already exist at age 6 – have widened by age 10
- Overweight/obesity at age 6 strongly associated with overweight/obesity at age 10. Suggests that tackling/preventing overweight in early childhood may help reduce levels of overweight and obesity and later ages.
- However, many children of healthy weight at age 6 moved into overweight/obesity. Suggests that prevention in early childhood alone would not be sufficient in reducing later levels of overweight/obesity





Summary (2)

- A range of aspects of children's family environment and experiences were associated with overweight/obesity at age 10 and with movement between BMI categories, after controlling for social background
- Some similarities with factors found in earlier analysis of overweight/obesity at age 6 – e.g. maternal overweight/obesity and frequency of unhealthy snacks related at both time points
- However, inactivity and perhaps particularly a home environment which facilitates higher levels of inactivity - appears to play a more important role when children are slightly older.
- Poor parental recognition of child overweight/obesity may also be problematic. The findings suggest that many parents are illinformed or find overweight hard to recognise.







Growing Up in Scotland: Changes in language ability over the primary school years

Line Knudsen, Eilidh Currie, Paul Bradshaw, James Law and Rachael Wood

October 2019

Research questions

- Does the gap in expressive language ability between children from advantaged and disadvantaged backgrounds change over the primary school years?
- What circumstances and experiences are associated with a relative change in ability? Do these vary according to social background?



Comparing language development

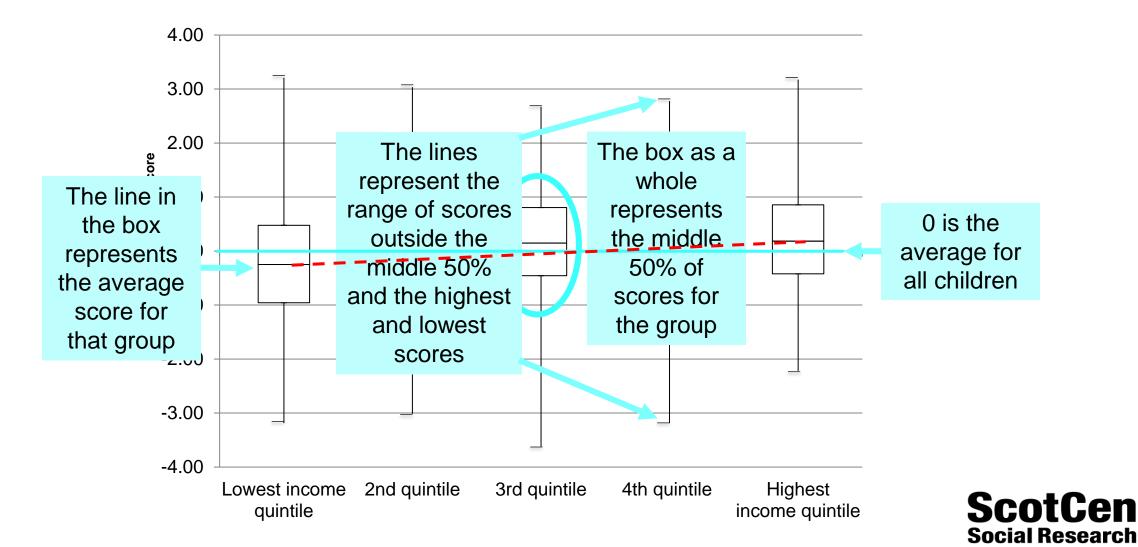
Child's age	Cohort/Year of data collection					
	Child cohort	Birth cohort 1	Birth cohort 2			
10 months		2005/06	2010/11			
Age 2		2006/07				
Age 3	2005/06	2007/08	2013			
Age 4	2006/07	2008/09				
Age 5	2007/08	2009/10	2015			
Age 6	2008/09	2010/11				
Age 8		2012/13				
Primary 6 (Age 10)		2015/16	>			
S1 (Age 12)		2017/18				
S3 (Age 14)		2019/20				

How we measured language development

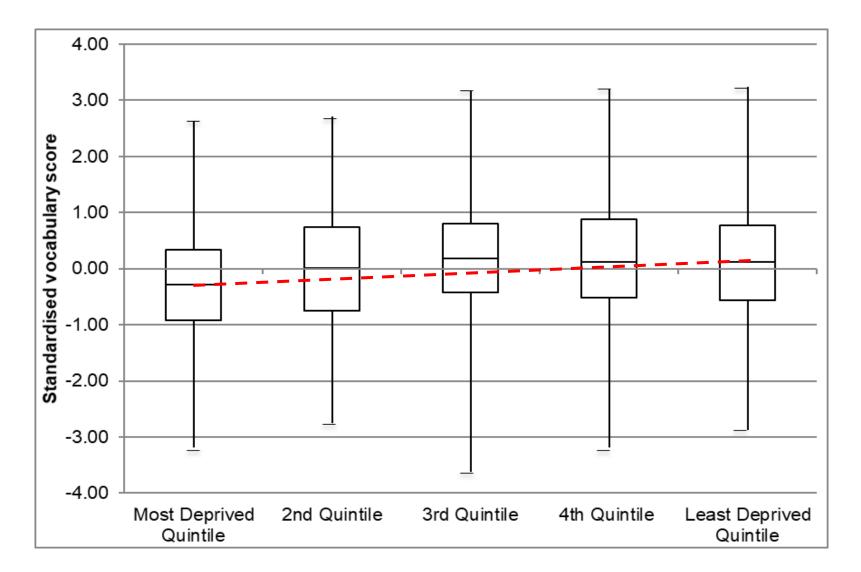
- This report focusses on expressive vocabulary
- Different but related measures used at each age point (age5/P1 and age 10/P6)
- To allow comparison, the scores from each age point were standardised into 'z-scores'.
- These are relative scores that tell us how well children are doing compared with the average for all children



Standardised vocabulary ability score by household income – Primary 6

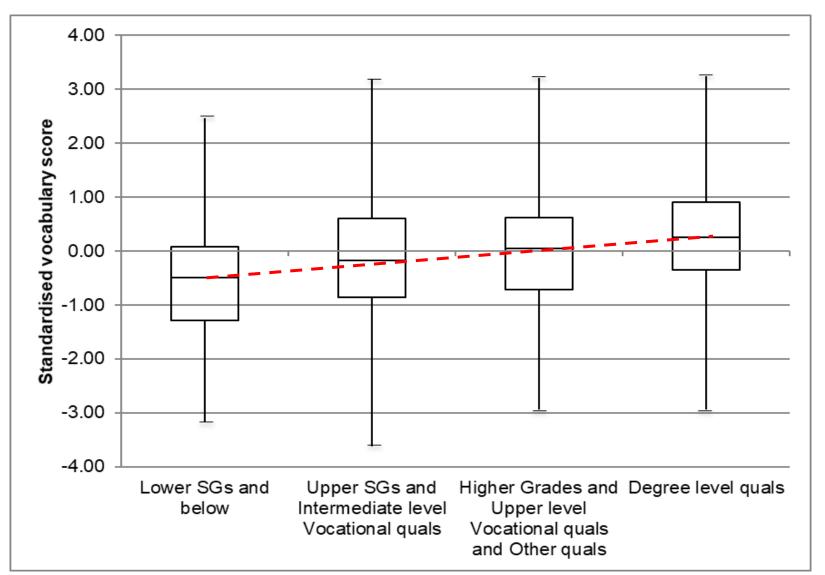


Standardised vocabulary ability score by area deprivation – Primary 6





Standardised vocabulary ability score by highest qualification – Primary 6





Has there been a change in the ability 'gap'?

Strong relationship between relative language ability in P1 and P6

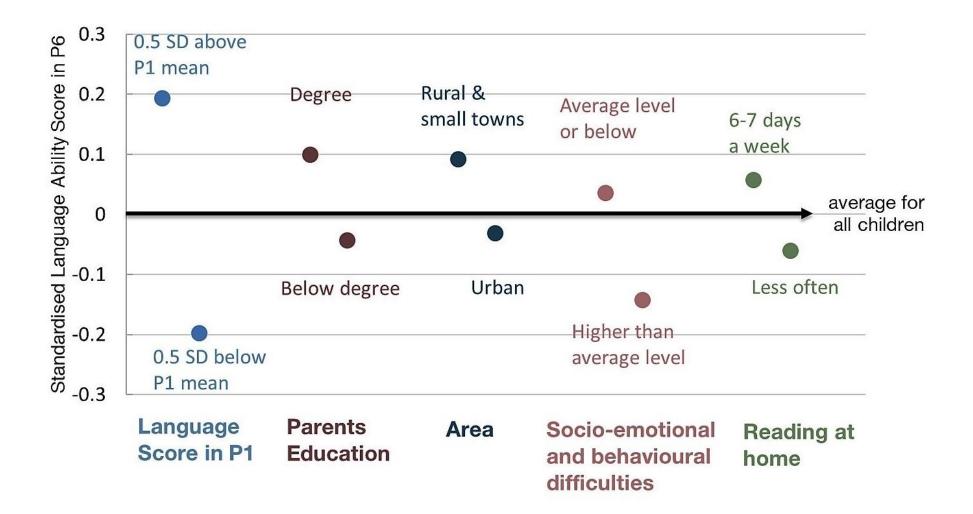
If the gap was narrowing, we would expect to see children in less advantaged circumstances improving <u>at a higher rate</u> than their more advantaged peers



To the contrary, results suggest children in more advantaged circumstances improved at higher rate than less advantaged peers

If anything, analysis suggests that inequalities have widened rather than narrowed over the primary school period

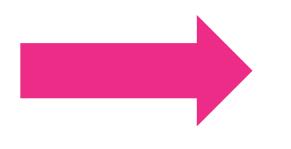
What factors are associated with improvement in language ability?



Summary and final remarks

- 'Gap' in expressive language ability between more and less advantaged children evident in last years of primary school (P6)
- If anything, inequalities appear to widen over primary school period

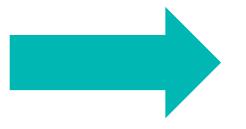
Also substantial variation in ability within socio-economic groups



- Socio-economic background may serve as useful flag for who might be at risk of poorer outcomes
- However, support for learning should not operate solely on the basis of socio-economic characteristics

Summary and final remarks (2)

Higher than average social development difficulties associated with relative decline in language ability over primary school period



- Policies aiming to improve educational attainment must take into account other domains of children's development
- Important to ensure ASNs associated with social and behavioural development are fully supported during primary school

Living in a small town or rural area associated with relative improvement

Reading/looking at books at home 6+ times per week (at age 8) associated with relative improvement

Thank you

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Life at Age 12: Initial Findings from the Growing Up in Scotland Study

Konstantina Vosnaki, Paul Bradshaw and Alex Scholes

October 2019

Areas covered in the report

- Experience of school and educational aspirations
- Relationships with parents and peers
- Healthy weight and perceptions of body weight
- Social media and use of the internet
- Involvement in risky behaviour
- Life satisfaction



Social media and use of the internet



Online and social media

Time spent on social media/communicating via devices

Knowledge about staying safe online

Parents' knowledge of child's online activity (M, C)

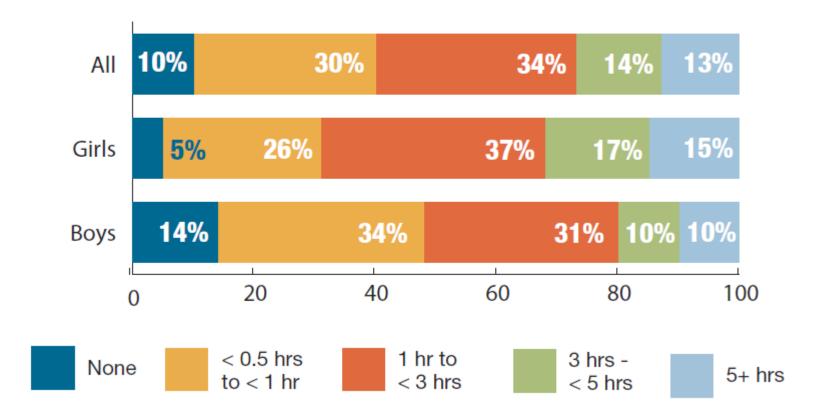
Online activities

Risky online behaviours

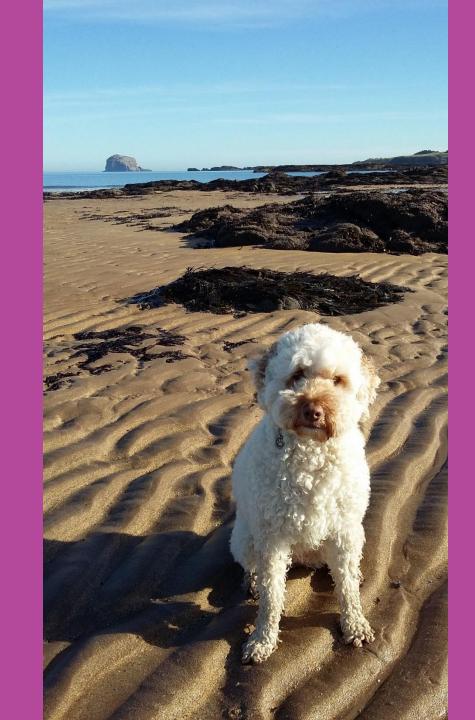
Experiences of being online incl upsetting experiences

Social media and use of the internet

Time spent on social media by gender



Involvement in risky behaviour



Risky behaviour

Smoking (cigarettes & e-cigarettes)

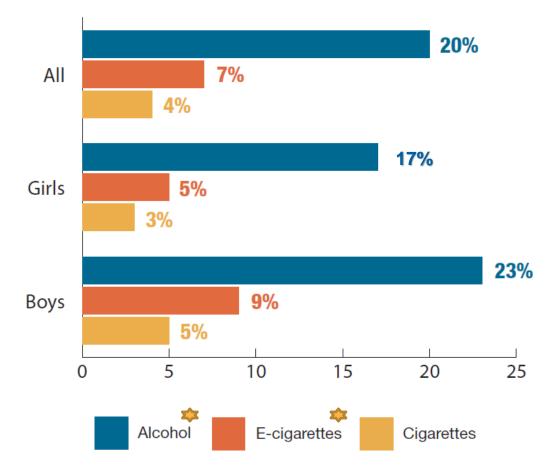
Alcohol

Anti-social behaviour

Taken something from a shop or store without paying for it Been rowdy/rude in a public place so that people complained/ got into trouble Stolen money or other things that someone else had left lying around Deliberately damaged or destroyed property Broken into a locked place to steal something Written things or sprayed paint on property Carried a knife or weapon in case it is needed in a fight Used force, threats, a weapon to get money or something else from somebody Hit, kicked or punched someone with the intention of hurting or injuring them

Risky behaviour

Proportion of children who had ever tried alcohol, a cigarette or an e-cigarette by gender



Risky behaviour [2]

Children who had smoked were more likely to have also drunk alcohol



70%

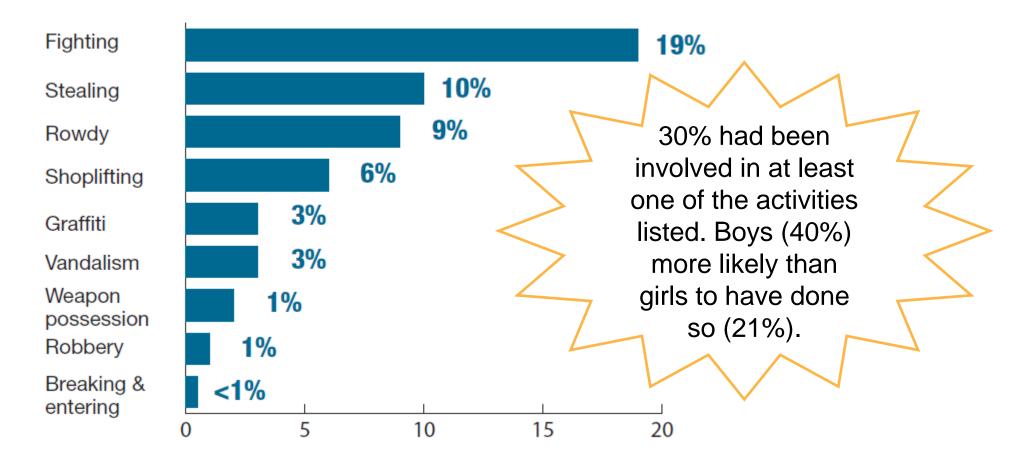
of those who had tried a cigarette had also drunk alcohol



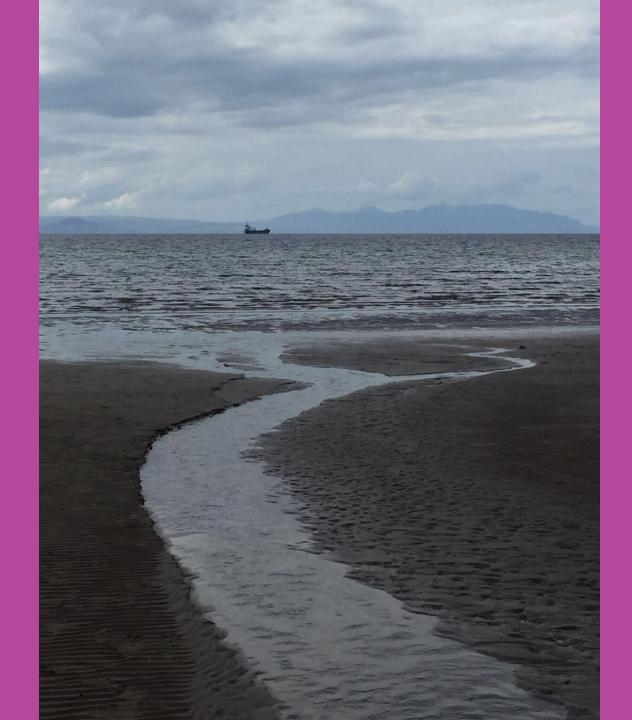
18% of those who had not tried a cigarette had drunk alcohol

Risky behaviour [3]

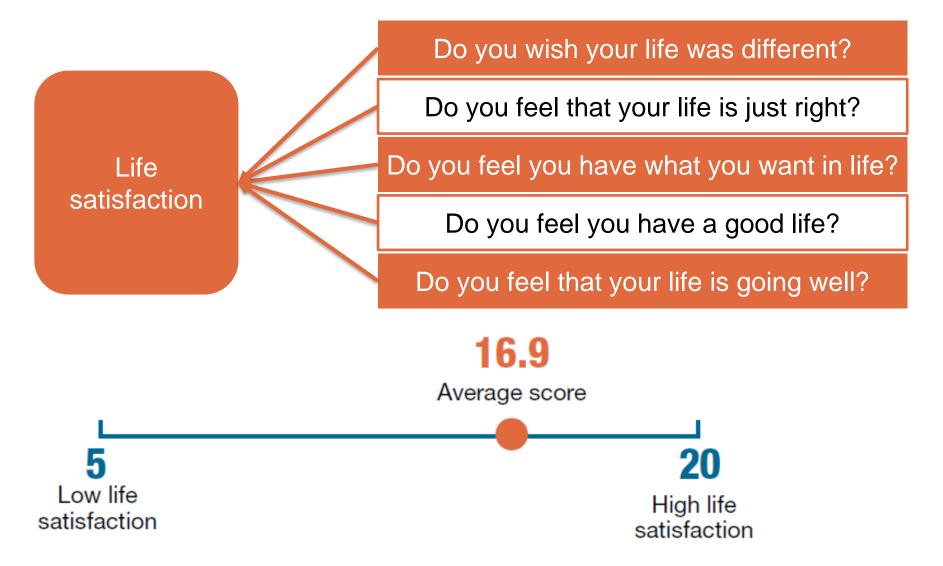
Involvement in anti-social behaviour



Life satisfaction



Life satisfaction



Life satisfaction

	Min.	Max.
Gender	-	-
Enjoyment of school	14.8	18.2
Aspirations for staying on in Education	15.5	17.1
Ease of making friends	14.9	17.4
Bullying experiences	15.5	17.7
Can count on friends	15.2	17.6
Can count on resident mother	14.6	17.4
Can count on resident father	14.0 粒	17.8
Hours per school day on social media	15.3	17.3
Body image	14.7	17.4

Life satisfaction by social media time

None	16.6
Less than half an hour	17.1
Half an hour to less than 1 hour	17.3
1 hour to less than 2 hours	17.2
2 hours to less than 3 hours	17.0
3 hours to less than 5 hours	16.9
5 hours to less than 7 hours	16.4
7 hours or more	15.3
5 10 1	5



20

Under average life satisfaction score

Average and above life satisfaction score

Thank you

Growing Up in Scotland

