



School absenteeism and the poverty-related attainment gap

Part I: Family socioeconomic status and school absenteeism

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- 1. ESRC project
- 2. Family SES and school absenteeism
- 3. Implications

ESRC project

- Title: Family background and educational attainment: An investigation into the mediating role of school absenteeism
- Funder: Economic and Social Research Council Secondary Data Analysis Initiative (ESRC SDAI)
- Period: September 2018 March 2023 (several no-cost extensions due to Covid-19)
- Team: Markus Klein (PI), Edward Sosu (Co-I) and Esme Lillywhite (research assistant)
 - Former team members: Shadrach Dare (University of Dundee), Claire Goodfellow (University of Glasgow)
- Non-academic partners: General Teaching Council Scotland (GTCS) and Poverty Alliance

Output

Peer-reviewed journal articles

- Klein, M., Sosu, E. M., Dare, S. (2020). Mapping inequalities in school attendance: The relationship between dimensions of socioeconomic status and forms of school absence. *Children and Youth Services Review*, 118, 105432.
- Sosu, E. M., Dare, S., Goodfellow, C., Klein, M. (2021). Socioeconomic status and school absenteeism: A systematic review and narrative synthesis. *Review of Education* 9(3), e3291.
- Klein, M., Sosu, E. M., Dare, S. (2022). School absenteeism and academic achievement: does the reason for absence matter? *AERA Open*, 8, 23328584211071115.

Research briefs

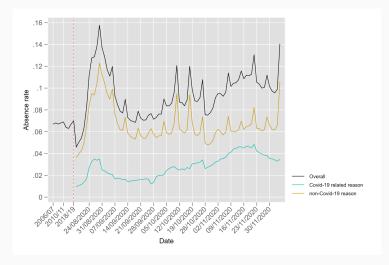
- Klein, M., Goodfellow, C., Dare, S., Sosu, E. (2020). Socioeconomic Inequalities in School Attendance in Scotland. University of Strathclyde
- Sosu, E. M., Klein, M. (2021). Socioeconomic disparities in school absenteeism after the first wave of COVID-19 school closures in Scotland. University of Strathclyde

Work in progress

- Sosu, E. M., Klein, M., Dare, S. School attendance and academic achievement: Understanding variation across family socioeconomic status. Under review
- Klein, M., Sosu, E. M. Secondary school absences and adolescents' post-school destinations Evidence from the Scottish Longitudinal Study. *In preparation for submission*

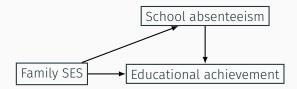
- Proportion of half days lost due to unexplained absences from school, including truancy, has risen from 0.7 per cent in 2005-06 to 1.7 per cent in 2018-19
- Unauthorised holidays hit highest level in 2018-19, with proportion of half days lost due to unauthorised holidays rising from 0.4 per cent in 2005-06 to 0.7 per cent.
- In 2018/19, students from SIMD 1 (most deprived) were absent 9.6 per cent of half days; students from SIMD 5 (least deprived) were absent only 4.7 per cent of half days

Covid-19 and school absenteeism



Source: Scottish Government's national daily school attendance records after the first lockdown, own calculations

Our overall question



What We Know and Gaps

• What We Know

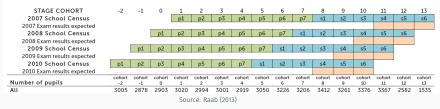
- SES gaps in achievement
- · SES differences in absenteeism
- Absenteeism associated with achievement

• Gaps

- Studies mostly from US context
- Multidimensionality of SES and absences not considered
 - Focus on free- or reduced-price lunch (e.g., Morrissey et al., 2014)
 - Focus on overall, authorised and unauthorised absences (e.g., Gottfried, 2009)
 - More precise reasons inform us about potential mechanisms
- $\cdot\,$ To what extent absenteeism explains SES-achievement gaps

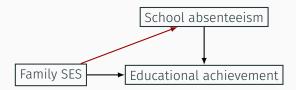
- Large-scale, anonymised linkage study using data from current Scottish administrative and statistical sources:
 - Census data (1991, 2001, 2011)
 - Vital events data (births, deaths, marriages, etc.)
 - NHS central register (migration into and out of Scotland)
 - School education data (school census, attendance and exclusion, SQA, 2007-2010, 2011-2013)
 - Pollution and weather data
- Designed to capture 5.5 per cent of the Scottish population
- Sample selected using 20 semi-random birthdates
- NHS health data (e.g., maternity and birth records) can be linked but are not part of the core SLS database

Table 1. Structure of School Census Data by cohort



- SLS sample: two student cohorts in S4 in 2007 and 2008 who were followed into S5 and S6 (cohorts 10 and 11 in the figure).
- Analytic sample:
 - Presence during Census 2001 and 2011 (for analysis on post-school destinations)
 - Mother and/or father identified from household information
 - SQA achievement records available (for analysis on educational achievement)

Family SES and school absenteeism



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Systematic review: SES and school absenteeism

• Main findings

- Majority of studies found negative association between SES and school absences, albeit with small effect sizes
- Greater evidence for a link between absenteeism and SES at the family than school level
- Financial resources (e.g., free or reduced-price lunch) more strongly associated with absences than sociocultural resources (e.g., parental education)
- Identified gaps

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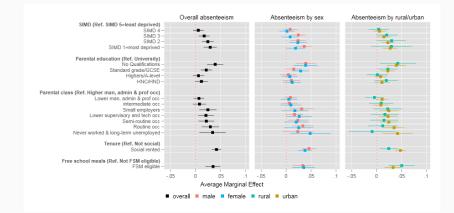
- Only five out of 55 high-income country studies were based on non-US contexts
- Free or reduced-price lunch most widely used SES dimension; only very few studies examined more than one SES dimension
- Research investigating why SES is associated with absenteeism is sparse

Research Questions

- **RQ1:** Are there socioeconomic inequalities in school absences in Scotland?
- **RQ2:** Do inequalities differ by the SES dimension (FSM registration, parental class, parental education, neighbourhood deprivation, housing status)?
- **RQ3:** Does the association between SES and absences differ across the reason for absence (truancy, sickness absence, family holidays, temporary exclusion)?
- **RQ4:** Do these associations vary by pupil sex and place of residence (urban vs. rural)?

- Schools in Scotland report specific reasons for absences following guidelines set by the government (Scottish Government, 2007)
 - Authorised reason: parents contact school and provide reasons for why child is not at school
 - Otherwise it is assumed that child is truanting until an explanation is provided
- Overall absences, truancy and sickness absences are measured as the proportion of half days a child was absent in S4
- Family holidays and temporary exclusion measured whether pupils missed school at least once due to these reasons in S4

SES dimensions and school absenteeism

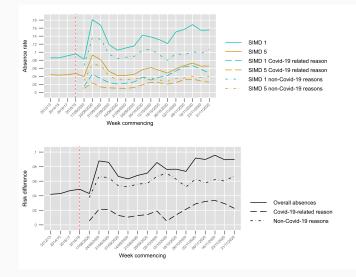


Source: Scottish Longitudinal Study (n=4,620), own calculations. Note: ; Estimates (with 95 and 90 per cent confidence intervals) refer to Average Marginal Effects derived from fractional logit models. Control variables: ethnicity. child's age. mother's age at birth. pupil cohort

Key Points

- Findings confirm previous studies in other contexts, mainly the US: Socioeconomic background is a significant predictor of being absent from school.
- Unique finding: all SES dimensions increased the risk of absenteeism from school.
- Multiple SES dimensions were associated with specific forms of absenteeism (sickness absence, truancy, temporary exclusion), except for family holidays
- Pupils from socially rented households, and households with no qualifications are the most likely to be absent and are consistently associated with specific forms of absenteeism
- The association between SES and absenteeism did not vary across pupil sex or place of residence

Covid-19 and socioeconomic disparities in absenteeism



Source: Scottish Government's national daily school attendance records after the first lockdown, own calculations

- Socioeconomic inequalities in learning increased not only during Covid-19 school closures but continued to increase after children returned to school
- \cdot We need greater monitoring and evaluation of
 - trends in inequalities in learning and achievement, especially after the Covid-19 school closures
 - policy interventions designed to mitigate the consequences of Covid-19 on achievement gaps.

Implications

- School absenteeism likely mechanism for socioeconomic inequalities in educational attainment and life course outcomes
- Targeted interventions are needed to reduce school absences among children from lower socioeconomic backgrounds
- Improving families' socioeconomic conditions should be a key component of interventions to increase school attendance

- Need for designing interventions tailored to subgroups and targeting specific socioeconomic risk indicators – personalised and whole school
- Making decisions on education policy solely based on one SES measure(e.g., SIMD) may miss many children from disadvantaged backgrounds

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For more information on the SLS, please visit: http://sls.lscs.ac.uk

References

Gottfried, M. A. (2009). Excused Versus Unexcused: How Student Absences in Elementary School Affect Academic Achievement. *Educational Evaluation and Policy Analysis*, 31(4):392–415.

Morrissey, T. W., Hutchison, L., and Winsler, A. (2014). Family income, school attendance, and academic achievement in elementary school. *Developmental Psychology*, 50(3):741–753.

Raab, G. M. (2013). Education data available within the Scottish Longitudinal Study. Technical report.

Thank you!