



Impact of the Universal Infant Free School Meal Policy

Birgitta Rabe
Angus Holford

**APSE online seminar: A fresh approach –
Developing a service fit for the future**

28 January 2021





Universal Infant Free School Meal Policy

- ❑ Introduced from Sep 2014
- ❑ All children in state-funded English infant schools (R, Y1, Y2) receive free meal in term-time
- ❑ Cost: ~£400/child per year plus considerable capital spending
- ❑ Aims (DfE 2014)
 - improve children's educational attainment, social skills and behaviour;
 - ensure children have access to a healthy meal and develop long-term healthy eating habits;
 - help families with cost of living;
 - remove disincentives to work



Options before Universal Infant Free School Meals

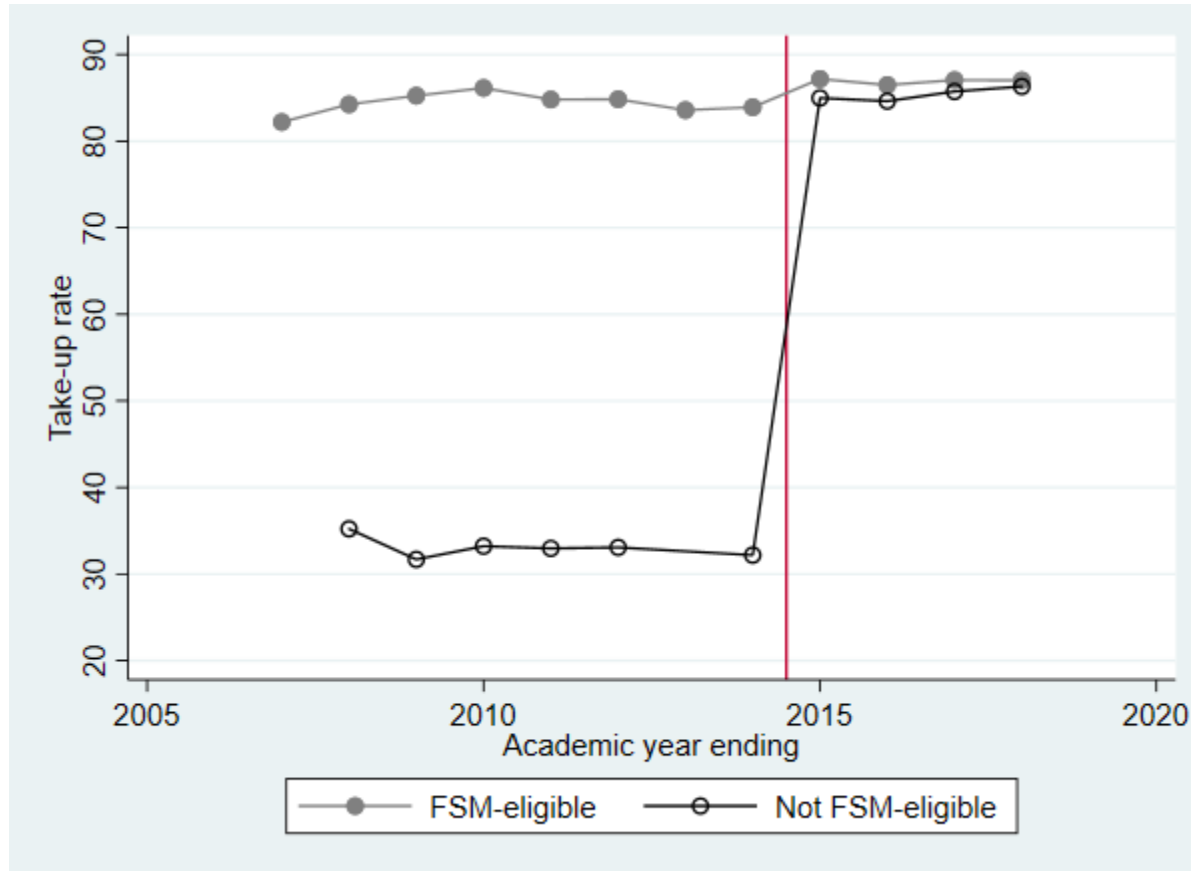
- ❑ Means-tested Free School Meals
 - Free School Meal (FSM) available to eligible pupils whose parents receive qualifying benefits (~18%)
 - All other children can purchase same meal at cost (about £2.30).
 - Since 2008: High nutritional standards and limits on portion sizes
 - ❑ Alternative meal: the packed lunch (Evans et al., 2018)
 - 1.1% of lunches meet school food standards, 11% meet calorie standard
 - 1/3 include confectionary, savoury snack and sweetened drink
- Move from a high-quality means-tested school meal programme to a free, universal programme



Our project

- ❑ Take-up of lunches
- ❑ Children's bodyweight outcomes
- ❑ Absences from school
- ❑ Educational outcomes at ages 5 and 7

Changes in meal take-up



Note: Sources: FSM-eligible series 2007-2014 derived from 'Schools, pupils and their characteristics' and 2015-2018 from Spring School Census. Not FSM-eligible series: 2008-2010: 'National Indicators' from the Department for Communities and Local Government; 2011-2012: School Food Trust take-up surveys; 2014: Department for Education take-up survey; Combining these figures for overall take-up by primary-age children at the Local Education Authority level, with the proportions FSM-eligible and the FSM-eligible take-up known from the 'Schools, pupils and their characteristics' series, enables the proportions of primary-age not-FSM eligible children taking school meals to be derived. 2015-2018 derived from Spring School Census, with take-up rate equal to the proportion of all not-FSM-eligible infant-age pupils taking a school lunch.



Main results on take-up

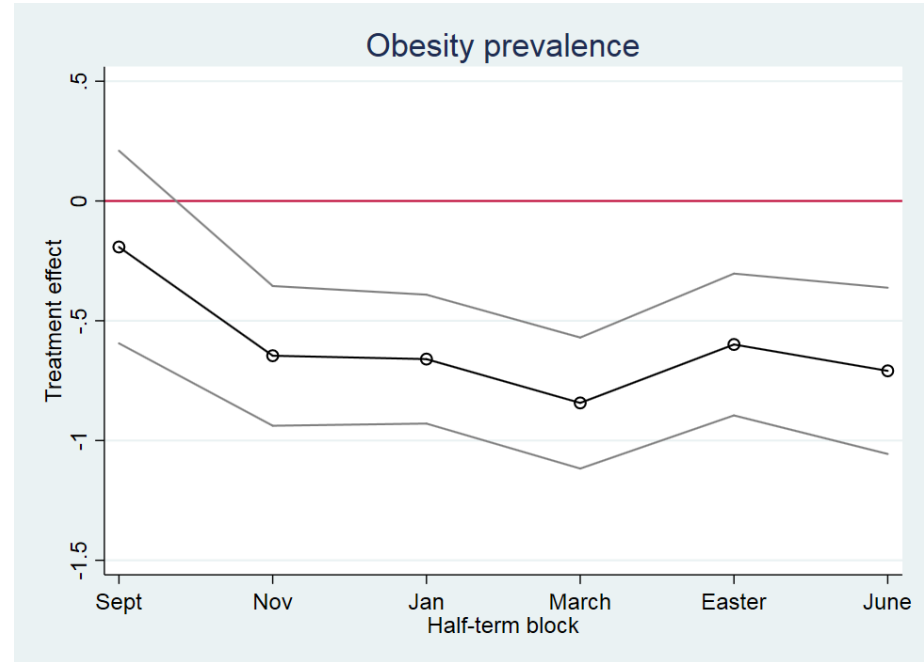
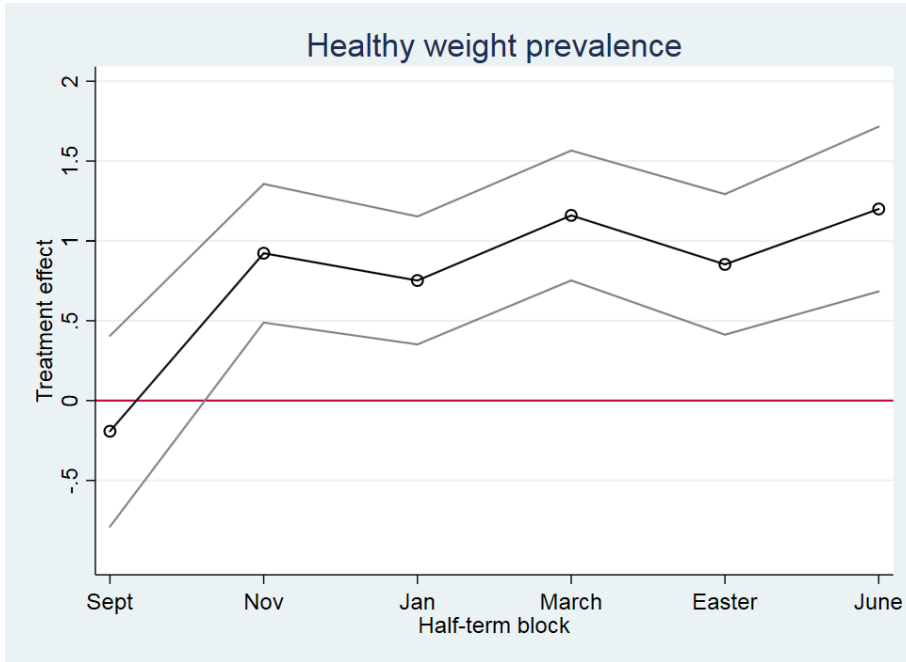
- ❑ 50 percentage point increase in take-up of school meals once they became free
 - suggests price of school dinner is a major factor affecting take-up
- ❑ Newly eligible families **save £19/week** on food bills
- ❑ 3 percentage point increase in take-up among children who were already eligible
 - suggests factors other than price affect take-up
 - no evidence of stigma effects
- ❑ Evidence that take-up among FSM-eligible juniors reduced. Capacity issues?



UIFSM and children's bodyweight

- ❑ Child overweight and obesity is a serious worldwide public health problem. In England 1 in 4 children overweight or obese at age 4/5.
- ❑ Children consume a large fraction of their food energy at school
→ School meal provision an obvious policy lever to increase rates of healthy weight among children
- ❑ Use National Child Measurement Programme (NCMP) data for Reception children; visits are staggered across the year
- ❑ Variation in date of measurement - can compare weight by duration of exposure throughout first year of school (0 to 190 meals)
- ❑ Compare this to pre-UIFSM years – expect gap to get larger over year as more meals are eaten

Treatment effects of UIFSM



Note: Data source: National Child Measurement Programme. Estimated treatment effect of exposure to UIFSM (academic years ending 2015-2018, relative to pre-UIFSM period 2009-2014). Derived from school fixed effect regression controlling for exposure to UIFSM pilot schemes, pupil premium exposure, proportion measured black (and missing indicator), proportion measured girls, cubic year-trend interacted with IDACI quintile and demeaned proportion black and girls, half-term block dummies interacted with demeaned proportion black and girls.



Impact of UIFSM on bodyweight

- By end of school year:

- 1.1%pt increase in healthy weight prevalence (base: 76%)

- 0.7%pt reduction in obesity prevalence (base: 10%)

- 4.1% of a standard deviation lower BMI

- Is this effect large?

- No, not in absolute terms

- Yes, compared to other school-based interventions that have been implemented or trialled in schools

- Benefits accrue to children from a wide range of backgrounds

- Cost-benefit: if the effect size is maintained, UIFSM are value for money in terms of reduced direct healthcare and productivity costs of obesity



Absences from school

- ❑ UIFSM could reduce absences through better health; incentives for parents; social factors
- ❑ Use National Pupil Database absence data to measure absences pre and post UIFSM, using Y3 & Y4 as comparison group
- ❑ Findings:
 - UIFSM reduce absences for FSM-eligible but not newly eligible children
 - FSM-eligible children miss 1.2 school days less in total, of these 0.7 days for health reasons (illness/medical appointments)
 - UIFSM help close absence gaps
 - Likely driven by social factors, given that take-up remained stable



Attainment

- ❑ Evaluation of free school meal pilots (London) found KS1 and KS2 pupils made 4 and 8 weeks more progress when receiving free lunches (Brown et al., 2012)
- ❑ Cannot perform similar evaluation as we have no comparison group for which nothing changed
 - Changes for FSM-eligible children in take-up and absences
- ❑ Find a positive *association* between children having a school meal and their attainment at ages 5 and 7.



Main policy messages

- UIFSM helps:

- reduce obesity
- reduce absences from school
- families with the cost of living.



It has delivered on its aim,
and should be maintained

- The policy seems to be cost effective in economic terms, but it is critical that the benefits persist.
- This will be a challenge in the context of COVID-19.

Once schools come back need:

- High take-up despite distancing requirements
- Adherence to school food standards even if meals are delivered 'takeaway style'
- Continued collection of the NCMP to monitor longer-term outcomes.

Thank you



iISER
INSTITUTE FOR SOCIAL
& ECONOMIC RESEARCH

**Impact of the Universal Infant
Free School Meal policy**

Dr Angus Holford and Dr Birgitta Rabe
Institute for Social and Economic Research, University of Essex

MiSoC
ESRC
Research Centre on
Micro-Social Change

University of Essex

Nuffield
Foundation

ESRC
Economic and Social
Research Council

www.iser.essex.ac.uk

Thanks to:

The Nuffield Foundation
Our Advisory Group
Feedback & discussion

Find the report:

www.iser.essex.ac.uk

www.nuffieldfoundation.org

Contact us:

brabe@essex.ac.uk

@rabe_b

ajholf@essex.ac.uk

@AngusHolford