

Evaluating the social and behavioural outcomes of a council-wide universal free school breakfast scheme.

Louise Harvey-Golding, Lynn Donkin, John Blackledge, Julie Young and Margaret Anne Defeyter.





## Context of the Research:

- PhD project examining the social and behavioural outcomes of a universal free breakfast programme within a universal deprived area of the North West England, UK.<sup>1</sup>.
- Universal free school breakfast programme aims to address inequalities and improve nutrition, diet and educational outcomes.<sup>2.</sup>

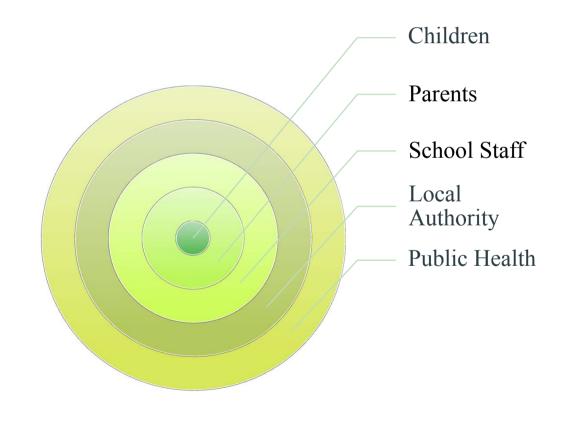
School breakfast provision has increased in UK but research into the impact school breakfast programmes is complex.

1. Public Health England, (2015). Blackpool Health Profile. Available at: <u>http://www.apho.org.uk/resource/item.aspx?RID=171648</u>

2. Blackpool Council, (2015). Universal Free School Breakfast. Available at: <u>https://www.blackpool.gov.uk/Residents/Education-and-schools/School-meals/Free-breakfasts.aspx</u>



Early Qualitative Findings



Interviews and Focus Groups with 66 Stakeholders

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# Poverty and Food Insecurity

We are quite a poverty stricken area and it perhaps doesn't seem a great deal of money to somebody that's got a little bit in their pocket but when you have nothing, cereal, toast, it can mean you know going without. (School Staff)

> It's such a poor deprived area, and people just can't afford [food]. There's food banks in the area. (Parent/carer)

I think it just takes the pressure off them and it just gives them the knowledge that the child is gonna come to school, have something to eat to set them up for the day till lunch time. (Parent/carer)

In this catchment area, we're in a deprived area so for whatever reason a lot of children come to school without breakfast. (School Staff).

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# Alleviates Rushed Mornings

I know it can be quite a rush in the morning when you've got lots of children, so to bring them in and know that they're here and they're ready. (Parent/carer) There's a lot of chaos in my house in a morning. You know everyone is busy getting ready for work. (Parent/carer)

I've got to be at college for 9 in the morning, so that helps me drop them off before. (Parent/carer)

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If they've got work and they don't have to pay for breakfast club. They can drop them off a little bit earlier and then get to work and I know some parents that do that. (Parent/carer)

My mum has a baby now so it and now she needs, she doesn't have much time to do our breakfast so I think it's helping her that we go to breakfast club. (Child)

# Weekends and School Holidays

Holidays are a killer, a lot of them are working in the holidays and they can't have the time off in the summer, so for us as a seaside town. (School Staff) You know certain children and you think what's going to happen to them over the holidays. You're worried, are they getting fed, and probably the answer is no, they're not and it must be hard for children as well. (School Staff)

There are families of concern that we think we know they're not going to have that breakfast when they get home and they won't have the quality. When there's lots of them, big families, you know it's the cost, especially during [school] holidays." (School Staff) I think for some children, some families there is a definite, definite need, you know we've had to give food parcels out and things. (School Staff) Sometimes I don't have any...because sometimes on weekends there isn't any breakfast things in, because erm the food are only in little boxes and erm there's isn't any left. (Child)

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# Previous Research:

- Rise in food banks during school holidays. <sup>1</sup>.
- ► Food poverty worsened during school holidays when free school meals, milk and fruit are not available to children. <sup>2</sup>.
- Teachers report that children return from the longer school holidays having lost weight and showing declines in readiness to learn.<sup>3.</sup>
- 1. Kellogg's Trussell Trust, (2015). School holidays leave kids hungry for three meals a day. Available at: http://www.trusselltrust.org/holiday-hunger
- 2. Rai S. Food Poverty: School Holidays and the Wider Impact. Available at: Northern Housing Consortium (2015). Available from: <u>http://www.northern-consortium.org.uk/assets/Policy%20Documents/childrenandyoungpeople/food-poverty-briefing-w-kelloggs.pdf</u>
- 3. School Holidays Leave Kids Hungry for Three Meals A Day. [Online]. Kellogg's & Trussell Trust (2014). Available at: http://www.trusselltrust.org/holidayhunger





# Breakfast Behaviours: Skipping

I have had times where my children's like, 'well I'm not hungry, I don't want anything. (Parent/carer) Skipping breakfast and then cause they're on school dinners trying to stop eating. (School Staff)

Mum sometimes doesn't have any, but [has breakfast] when she gets home. (Child) I suppose it's not setting a good example cause they don't see you doing it. (Parent/carer)

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# Breakfast Behaviours: Double Breakfasting

Other children who eat at home, go to early birds, have their breakfast there, come in school have their breakfast there and by then break might have a piece of fruit. (School Staff) Obviously I control the amount he has in the house, normally I would give him a certain amount, I give him slightly less than that. (Parent/carer)

Even though he has had a small breakfast at like 8'o clock it puts him over till dinner time. (Parent/carer)

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Mine last year were quite good at saying, no I've already had breakfast I'm not hungry, they'd only really eat when they were hungry. (School Staff) A lot of them do just say I've had it already and they're fine and they know, but some of them do eat loads. (School Staff)

# Previous Research into Breakfast Behaviours:

- Research suggests that breakfast omission detrimentally impacts on learning. <sup>1-3.</sup>
- Associations have been suggested between school breakfast participation and reducing obesity levels.<sup>4.</sup>

#### The bad behavior creeps in, because they just don't know what to do and then they're not concentrating so they will have annoyed the person next to them. (School Staff)

You just forget everything that you're doing and the teacher has to stop helping other people and go through it again. (Child)

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### Limited research into 'double breakfasting'

- 1. Powell CA, Walker SP, Chang SM, Grantham-McGregor SM. Nutrition and education: a randomized trial of the effects of breakfast in rural primary school children. Am J Clin Nut (1998) 68(4):873–9.
- 2. Grantham-McGregor SM, Chang S, Walker SP. Evaluation of school feeding programs: some Jamaican examples. Am J Clin Nutr (1998) 67(4):785–9.
- 3. Winicki J, Jemison K. Food insecurity and hunger in the kindergarten classroom: its effect on learning and growth. Cont Econ Policy (2003) 21:145–57. doi:10.1093/cep/byg001
- 4. Millimet DL, Tchernis R, Husain M. School Nutrition Programs and the incidence of childhood obesity. J Hum Res (2009) 45:3. doi:10.3386/w14297

# Paper: Universal free school breakfast: a qualitative model for breakfast behaviours

### http://journal.frontiersin.org/ article/10.3389/fpubh.2015. 00154/full

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#### Universal free school breakfast: a qualitative model for breakfast behaviors

Louise Harvey-Golding<sup>1</sup>\*, Lynn Margaret Donkin<sup>2</sup>, John Blackledge<sup>2</sup> and Margaret Anne Defeyter<sup>1</sup>\*

<sup>1</sup>Organiment of Psychology, Faculty of Health and Life Sciences, Northumbria University, Newcastle Upon Tyne, UK, <sup>1</sup>Orectorale of Public Health, Bacippod Council, Bacippod Curk, <sup>1</sup>Ometorate of Community and Bellowmental Services, Bacippod Council, Bacippod, UK

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Specially section: This and/o was submitted to Oiki Health and Human Development, a section of the journed Fronties in Public Health Received: 30 March 2015 Published: 11 June 2015 Catilion: Havey-Gotking L, Danish LM, Blacking J and Daly HLA(2015) Chevral the school breafast: a quiltative modif for breakter thanays. Front, Aublic Health 2154.

In recent years, the provision of school breakfast has increased significantly in the UK. However, research examining the effectiveness of school breakfast is still within relative stages of infancy, and findings to date have been rather mixed. Moreover, previous evaluations of school breakfast schemes have been predominantly quantitative in their methodologies. Currently, there are few qualitative studies examining the subjective perceptions and experiences of stakeholders, and thereby an absence of knowledge regarding the sociocultural impacts of school breakfast. The purpose of this study was to investigate the beliefs, views and attitudes, and breakfast consumption behaviors, among key stakeholders, served by a council-wide universal free school breakfast initiative, within the North West of England, UK. A sample of children, parents, and school staff were requited from three primary schools, participating in the universal free school breakfast. scheme, to partake in semi-structured interviews and small focus groups. A Grounded Theory analysis of the data collected identified a theoretical model of breakfast behaviors, underpinned by the subjective perceptions and experiences of these key stakeholders. The model comprises of three domains relating to breakfast behaviors, and the internal and external factors that are perceived to influence breakfast behaviors, among children, parents, and school staff. Findings were validated using triangulation methods, member checks, and inter-rater reliability measures. In presenting this theoretically grounded model for breakfast behaviors, this paper provides a unique qualitative insight into the breakfast consumption behaviors and barriers to breakfast consumption, within a socioeconomically

deprived community, participating in a universal free school breakfast intervention program.

Keywords: school breakfast, breakfast behaviors, food insecurity, food poverty, families

#### Introduction

The prevalence of school break fast has increased considerably in the UK, with a 45% rise in provision since 2008, and current estimates that 85% of schools offer break fast schemes (1). The UK gover mnent recently amounced an investment of £3.15 million over 2 years to establish sustainable breakfast clubs in primary and secondary schools (2). From a policy perspective, a fundamental factor is the prevention of hunger in children at the start of the school and the UK power starts and the UK power schools (2).

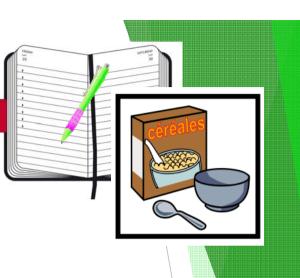
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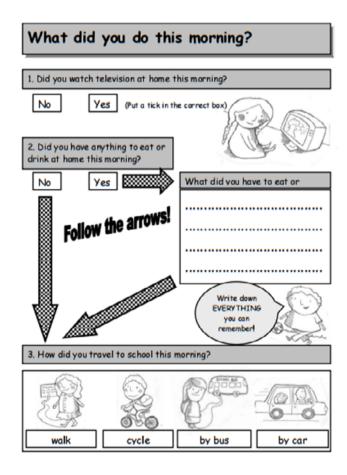
# Extending the Research:

- Examine concerns about breakfast behaviours:
  - Breakfast Omission
  - Double Breakfasting
  - Breakfast Locations (home, on the way to school, at school)
- Developed an efficient, low cost tool for gathering dietary data from children to address concerns.
- Minimising methodological issues.



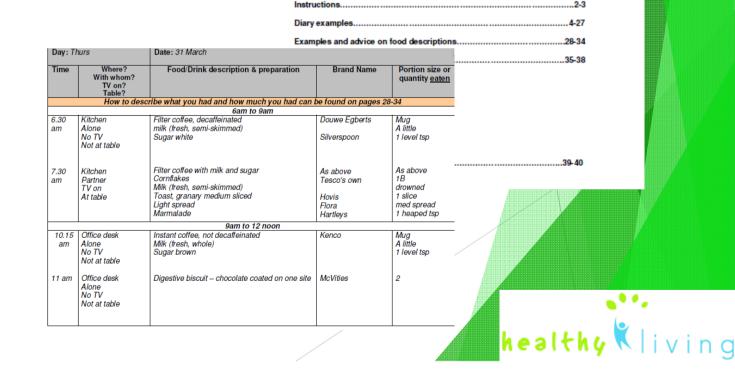
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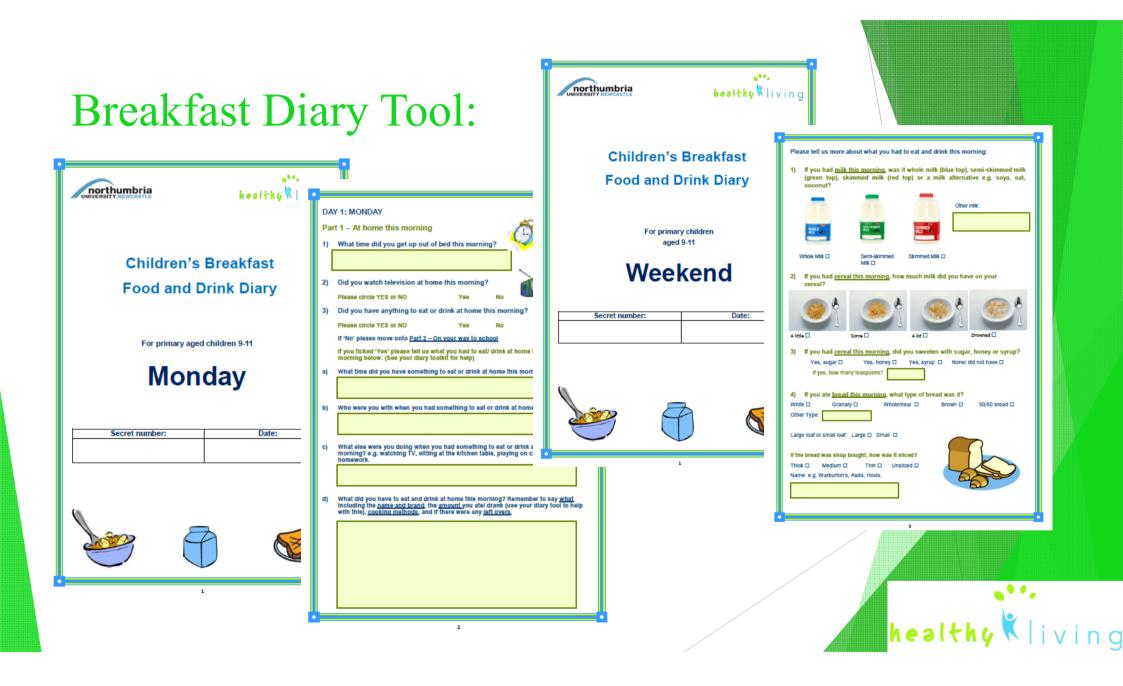
# Developing a Breakfast Diary Tool:



NATIONAL DIET AND NUTRITION SURVEY

Food and Drink Diary Instructions





## **Breakfast Diary Toolkit:**

#### Food Diary Information

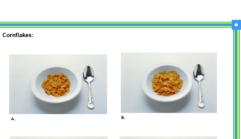
This is a food diary for you to tell us about the food and drink you have from waking up in

- the morning to before lunch: On school days this includes: at home in the morning, on the way to se . school before lunch. At the weekend it includes everywhere from waking up to before lunch
- It is not a test and it is important that you do not change what you normally e just because you're keeping this diary. The most important thing is that y questions truthfully.
- You should start your food and drink diary on Monday and fill it in for seven ( on Sunday. After lunch break each day you will be asked by your leache section of the food diary teiling us about what you had to eat and drink fir to before lunch break. You will be given a diary to take home for the wee
- When: On a school day each day is divided into 3 main time slots: <u>at hi</u> morning, on the way to school and <u>at school before lunch.</u>
- Where: This could be at home in your bedroom, kitchen, sitting room, c at a friend's or family member's house, in a car, on a bus/ tram on the wa could also be from a shop, take away, cafe, school canteen, classroom o Tell us if you were sitting at a table or watching TV.
- With Whom: Give information about who you were with when you were drinking. This could be alone, with family, with friends, with your teacher, staff etc.
- What: Describe your food and drink giving as much detail as you can. I extras like sugar and milk in your tea or cereal; butter or other spreads or and sauces such as ketchup and mayonnaise.
- Brand: Please make a note of the brand name (e.g. Heinz, Walkers, Hov know it.
- Amount eaten: You can specify packet (e.g. Crisps), or number of indiv (e.g. biscuits, cereal bars), or slices (e.g. bread, bacon), or spoons. For ( write glass, cup or mug. More help on describing portion sizes is provide sections of this toolkit.
- Cooking methods: If you know how the food was cooked (e.g. grilled, b fried), please record this. If you're unsure about how your food is cooked the person who prepares if if possible.
- Help: You can find help on describing food and drink in this toolkit. As descriptions, you can find pictures of portion sizes of some common bre: Pick the picture that looks the most like the portion you had and record th letter in your food diary.
- Left overs: We would like to know the amount that you actually ate, so tell us if you left any food or drink.

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Describing food/drink and amounts Use the following table for information on how to describe the food and drink y your diary. It's in alphabetical order so you can easily look up the food or drink

Food/ Drink	Description	Preparation	Amo	
Baked beans	Standard, reduced salt or reduced sugar	Cooked in pan or microwave	Nurr table	
Biscults	Cheese, wafer, crispbread, sweet, chocolate (fully or haf coated), bourbon, custard cream, jammy dodger, shortbread	Home-made or shop bought	Nurr	c.
Breakfast cereal and muesil	Brand: Kellogg's, Nestle, Asda Varity: Comflakes, Weetablx, Cheerlos, Coco pops	Added fruit or nuts With milk, sugar, honey, syrup	See for h porti Spoi hone	
Bread	Wholemeal, granary, white or brown; 50/50 Currant, fruit, mait Siloed, unsliced, rolls, wraps, bagels, muffins	Alone or with spread or filing Grilled, toasted, fried	Num pleo Thic thin Cut	E.
Buns and pastries	loed, currant or plain, jam, custard, fruit, cream	Homemade or shop bought	Size pieo	
Butter, margarine & fat spreads	Flora margarine, Lurpack butter, Asda margarine, Utterly Butterly	On bread, crackers, mait loaf	For spre 13-1	
Cake	Fruit, sponge, fresh cream, iced, chocolate coated Filling: buttercream, jam	Homemade or shop bought	Larg siloe How or pi	
Cereal bars	Type/ brand name: Cocopops bar, Kellogg's Special K Bar	With fruit, nuts, coated with chocolate/yoghurt	Size Stan muti-pack	
Cooked breakfast foods, e.g. bacon, sausage, eggs	Bacon: back, streaky, smoked, unsmoked, with/without fat Sausage: type, brand name, pork, beef, fat/ thin etc.	Fried with or without oil, grilled, baked, boilied, poached, scrambled	Number of pieces, rashers, items etc	
Crisps	Brand name and type: Walker's Salt and Vinegar, Wotsits Cheese What sort: potato, com, wheat, maize, vegetable		Standard or from multipack Standard or sharing bag	
Fruit: fresh	Apple, banana, orange, grapes	With or without skin Chopped up or whole fruit?	Small, medium or large piece or portion	









Drinks - Glasses of milk:

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# Gathering Additional Data:

- ► Caterer's Diary.
- Researcher Observations.
- ► Food and Beverage Packaging.
- Photographs of Portions and Packaging.



# Why is this data useful to us as academics, policy makers and practitioners?

- Concerns about breakfast behaviours amongst children, e.g. breakfast skipping and double-breakfasting.
- We have developed a low cost efficient tool for gathering data to examine these concerns.
- Knowledge on children's breakfast behaviours and effective tools for gathering this knowledge are important to research, policy and praxis.
- In the context of rising breakfast school breakfast provision important to assess that intended outcomes such as reducing hunger and health inequality are being met.

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# Thank you for listening Any questions?

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