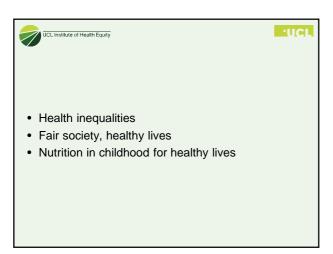
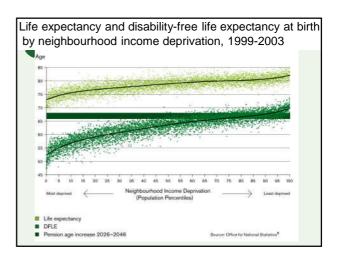


#### **Ruth Bell**

'Supporting families of young children to develop healthy eating habits' Infant and Toddler Forum Study Day 25th October 2012

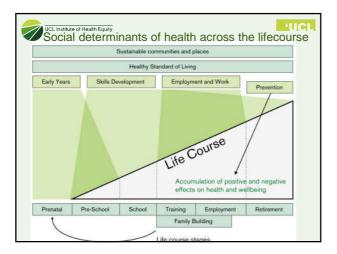


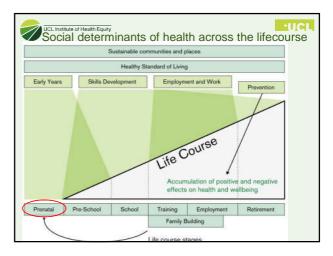


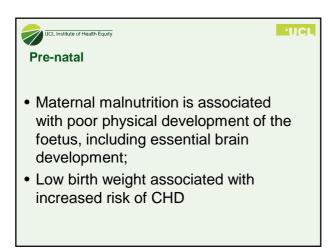


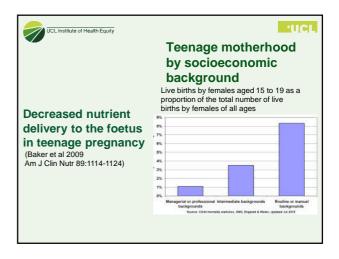


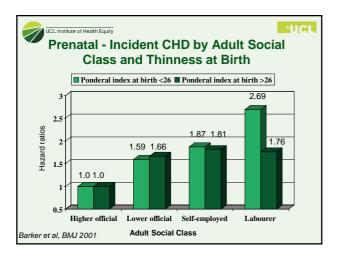


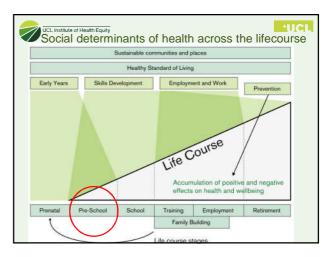














**'UCL** 

### Early life: early child development

- Physical, cognitive/linguistic, social/emotional development are interdependent;
- · Highly sensitive to social environment
  - Social gradient in child development outcomes emerge before school
- Lays foundations for future life trajectory
  - Early child development (ECD) has a determining influence on subsequent life chances and health



**\*UCL** 

#### **Nutrition in early childhood matters**

- Energy balance and nutritional content, inc micronutrients
- · Overweight or obesity in childhood
- · Type II diabetes among children
- · Dental health in young children
- Rickets
- · Cognitive development and behaviour



**'UCL** 

#### **Breast feeding**

- Natural breastfeeding ideal food for infants' growth and development, also good for mothers' health;
- In 2001 WHO recommended exclusive breastfeeding for the first six months of life on account of its emotional (bonding), nutritional, immunological and other benefits.



\*UCL

#### Breastfeeding and cognitive development

- Meta-analysis of 20 controlled studies (Anderson et al Am J Clin Nutr 1999, 70. 525-35)
- Breastfeeding associated with higher scores for cognitive development than formula feeding (adjusted for covariants including socioeconomic status, maternal education, duration of breastfeeding inter alia)
- Low birth weight babies had greater benefits than normal weight babies
- Recent study on Millennium Birth Cohort found similar results (Quigley et al, 2011)
- NOT ALL STUDIES AGREE MIXED EVIDENCE



\*UCL

### Breastfeeding and childhood obesity

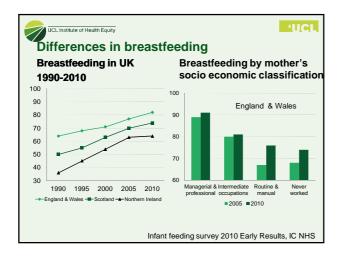
 Systematic review & meta analysis: "breast feeding seems to have a small but consistent protective effect against obesity in children"

Arenz et al IJO 2004, 28, 1247-1256

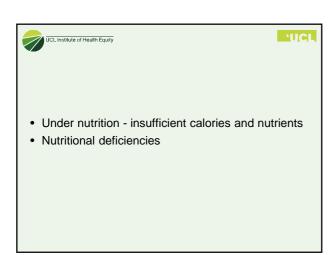


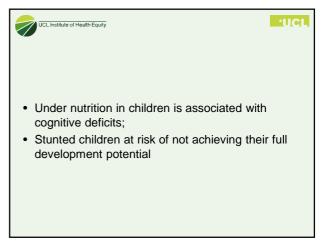
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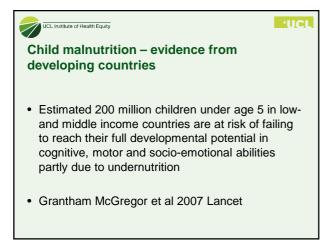
- Breast feeding is beneficial
- Who breast feeds?

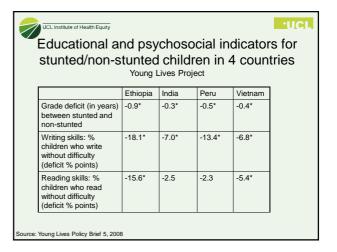


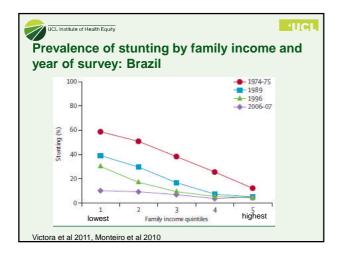


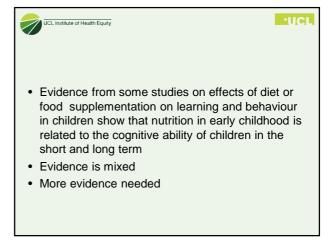


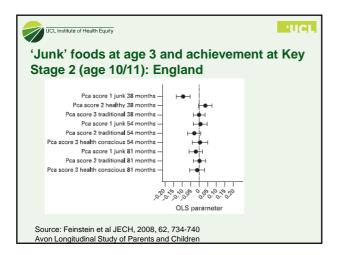


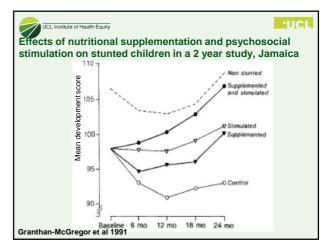


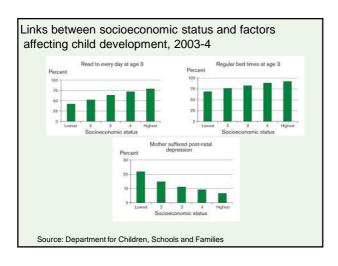




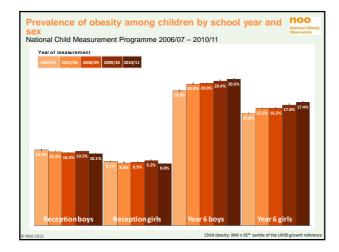


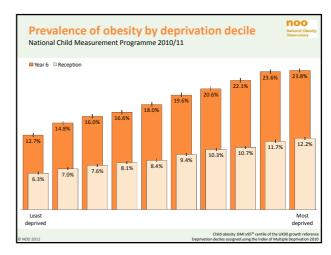


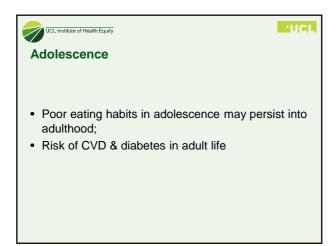


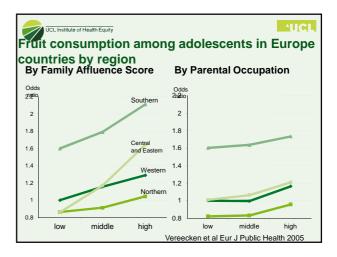


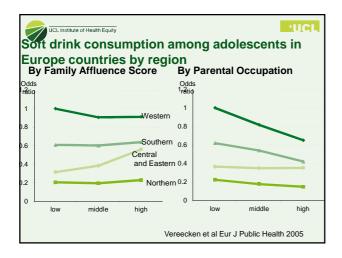






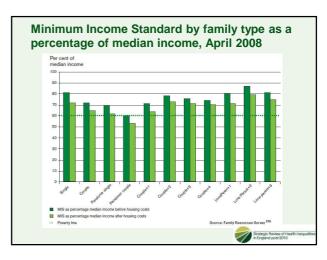






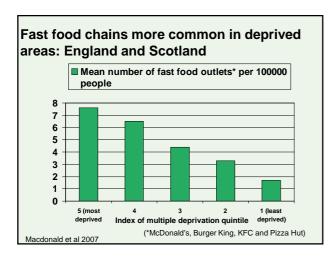
















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# Action on the wider determinants - to tackle health inequalities

- "Every sector a health sector"
- Local authorities, Health and Social Services, Voluntary Sector have a key role to play at local level
- Empower individuals and communities create the conditions for people to take responsibility

www.marmotreview.org



HICL

## Policy choices to improve childhood nutrition

- Standards for food in schools and children's centres
- Advertising of food and drink to children
- Town planning
- Taxation
- ...

