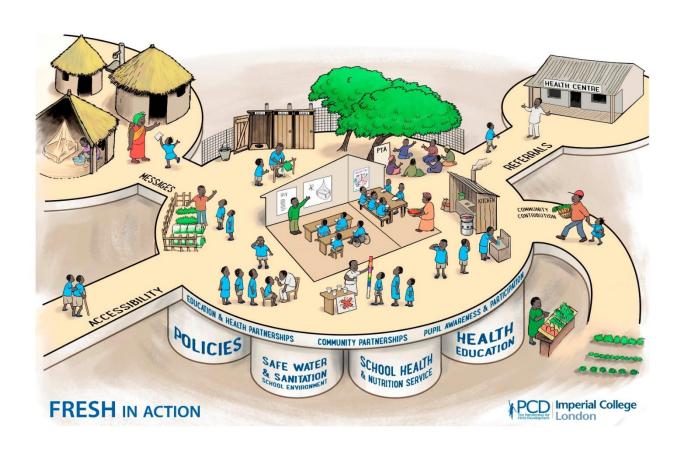
School Health and Nutrition at Scale







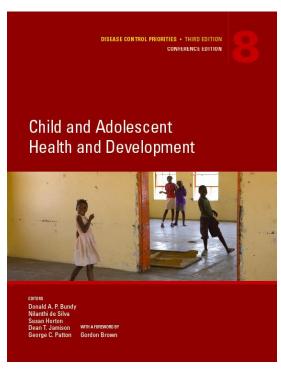






Volume 8:

Child and Adolescent Health and Development



Editors:

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Published November 2017

The Partnership for Child Development



Main Messages

- It takes some 8000 days for a child to develop into an adult.
- Focus on the first 1000 days is an essential but insufficient investment
- Sensitive phases shape development throughout this period, and age-appropriate and condition-specific support is required throughout if a child is to achieve full potential as an adult.





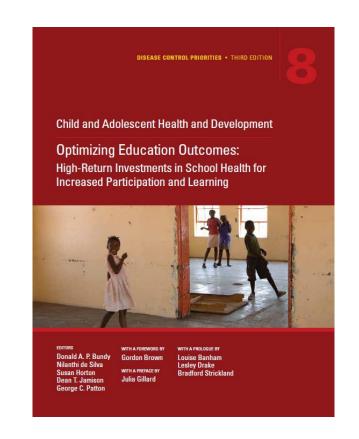
EDITORS

Donald A. P. Bundy Nilanthi de Silva Susan Horton Dean T. Jamison George C. Patton

WITH A FOREWORD BY Gordon Brown

WITH A PREFACE BY
Julia Gillard

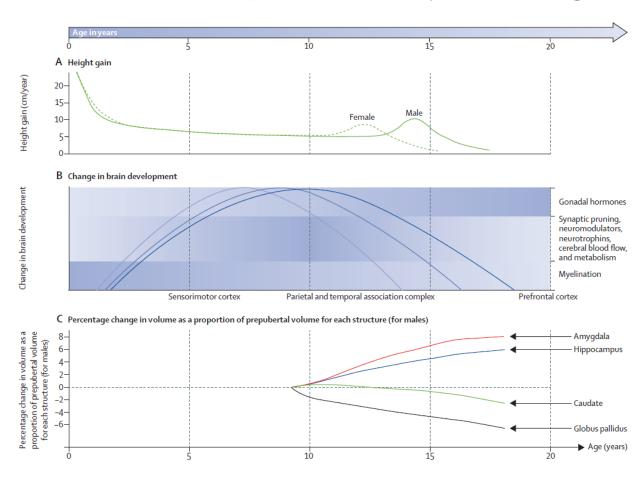
WITH A PROLOGUE BY
Louise Banham
Lesley Drake
Bradford Strickland







Human development to 20 years of age







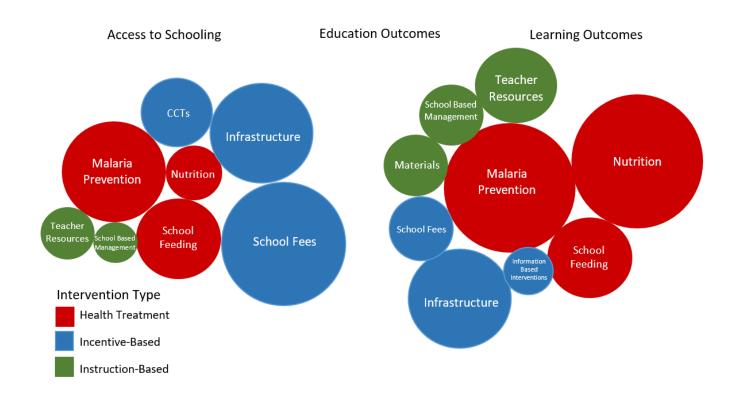
Two essential packages (5-19 years)

- The volume proposes two essential packages for ages 5-19 years:
 - School-age package (5-14 years):
 utilizes pre-primary and primary schools
 to address health needs in middle
 childhood and early adolescence
 - Adolescent package (15-19 years): utilizes a mixed approach involving the community, secondary schools, media and health systems



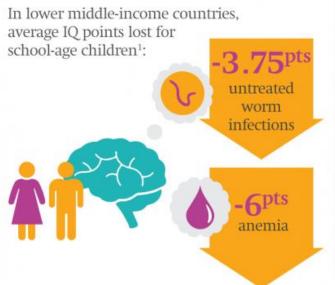


Median significant effect sizes on education outcomes







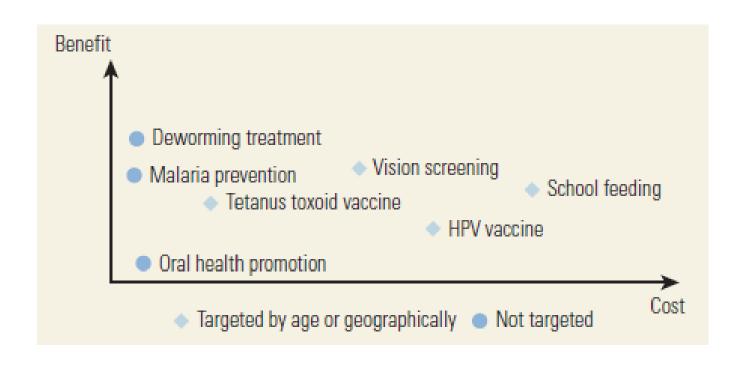








Cost:Benefit Ratios for the School-Age Essential Package

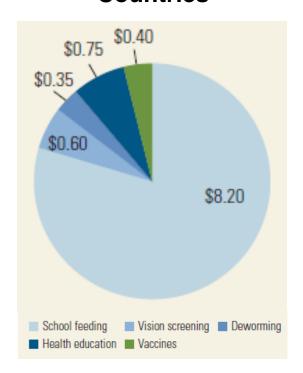




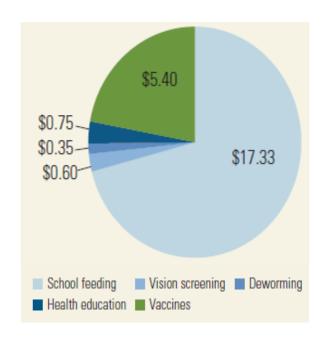


Cost Share of the School-Age Essential Package

Low-Income Countries



Lower-Middle Income Countries







Working across health and education

- Well designed health interventions in middle childhood and adolescence can leverage the current substantial investment in education, and improved design of educational programs can improve health.
- The potential synergy between health and education is undervalued and the returns on co-investment are rarely optimized.





Three SHN success stories

- School feeding
- Vision screening
- Deworming





Home Grown School Feeding

- Promoting agricultural development by improving access to the school feeding market
- A win-win
 - for children and communities... improving their education, health, and nutrition
 - Smallholder farmers...providing regular orders and a reliable income









Social Protection Social Safety Nets

Health and Nutrition
Diet, Growth,
Development



Rural Economies
Small-holder Agriculture

Education Enrolment, Learning, Girls' Educatior ****





Local SHNP Protein Commodities Nigeria

- 75 metric tonnes of fish
- 4,341,439 eggs
- 33,000 birds
- 355 cattle

WEEKLY!!





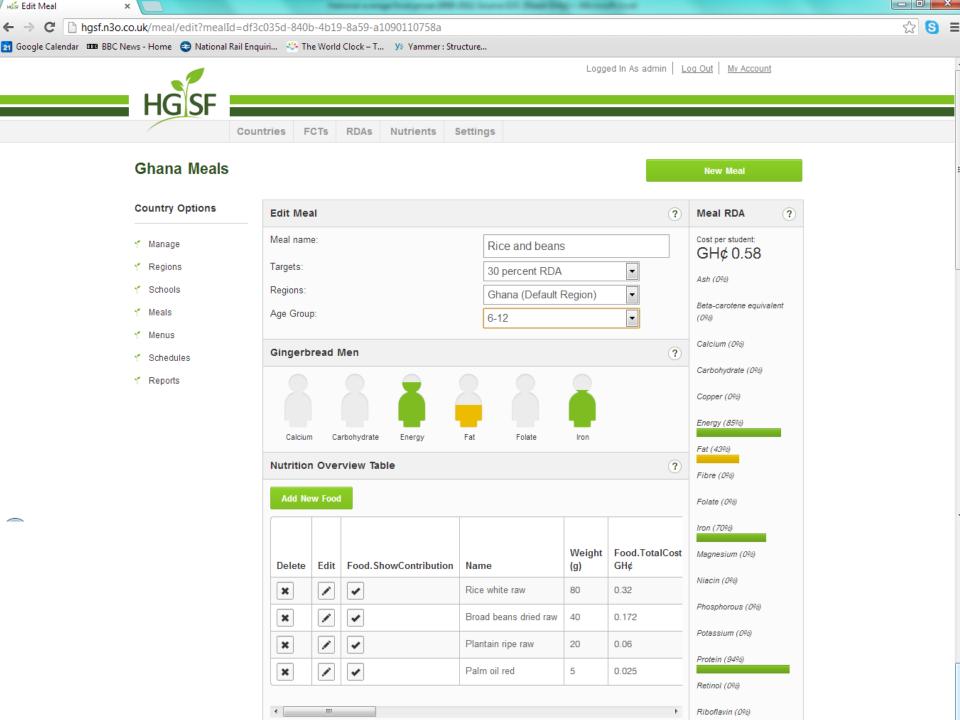




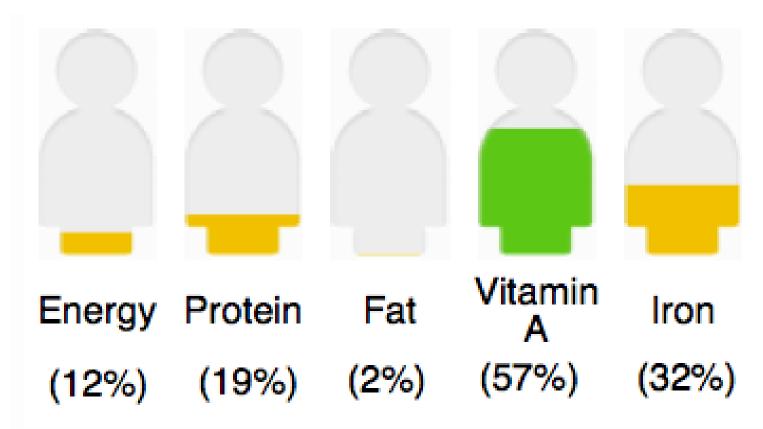








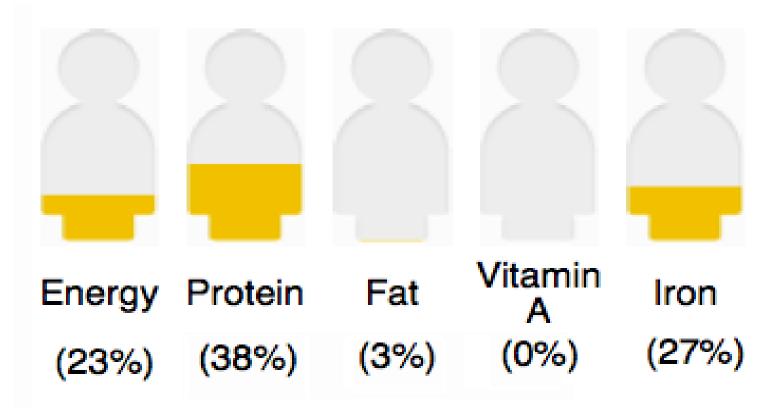
100g Maize porridge & 100g Cassava leaves







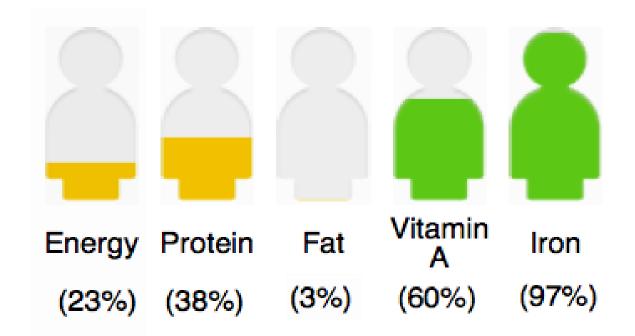
100g Maize porridge & 100g Pigeon peas







100g Maize porridge, 100g of Pigeon peas and one sachet of WFP sprinkles



Contents of WFP sachet (1g): Vit A 300mcg, Vit. C 50mg, Vit. D3 7.5 mcg, Iron 12.5mg, Zinc 5mg and Folic Acid 150 mcg.



Refractive Error in Children

- Lancet (2012) study has shown that almost 90% of urban school-leavers in Asia require spectacles.
- Refractive error is responsible for 97% of vision problems in school-children – can lead to reduced attainment.











Worm Infection







Ascaris Iumbricoides (roundworm)



Trichuris trichiura (whipworm)











Ancylocstoma duodenale Necator americanus (hookworm)



Schistosoma haematobium S. Mansoni S. japonicum



Scaling Up



HISTORICAL PROFILES AND PERSPECTIVES

Bihar's Pioneering School-Based Deworming Programme: Lessons Learned in Deworming over 17 Million Indian School-Age Children in One Sustainable Campaign

Lesley J. Drake^{1,2,3}*, Sarman Singh⁴, C. K. Mishra⁵, Amarjeet Sinha^{5na}, Sanjay Kumar^{6nb}, Rajesh Bhushan^{7nc}, T. Deirdre Hollingsworth^{3,8,9,10}, Laura J. Appleby^{1,3}, Rakesh Kumar², Kriti Sharma², Yogita Kumar², Sri Raman^{2†}, Stalin Chakrabarty², Jimmy H. Kihara¹¹, N. K. Gunawardena¹², Grace Hollister^{2,13,14}, Vandana Kumar², Anish Ankur², Babul Prasad², Sushma Ramachandran², Alissa Fishbane^{2,13}, Prerna Makkar^{1,2}





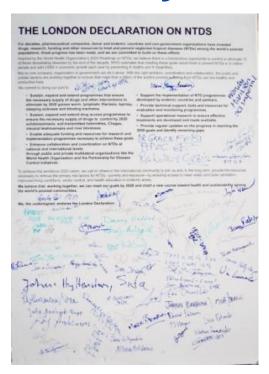


London Declaration, January 2012

- PCD was one of many co-signatories of the London Declaration
 - donors
 - pharmaceuticals
 - multilateral agencies

pharmaceutical partners J& J and GSK committed to extending their combined annual donations of 600 million deworming treatments for school-age children at risk of STH through 2020.









Find out more @

www.schoolsandhealth.org

www.hgsf-global.org





www.child-development.org

Downloadable

- Documents & resources
- News & Events
- SHN topic information
- Country specific data



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