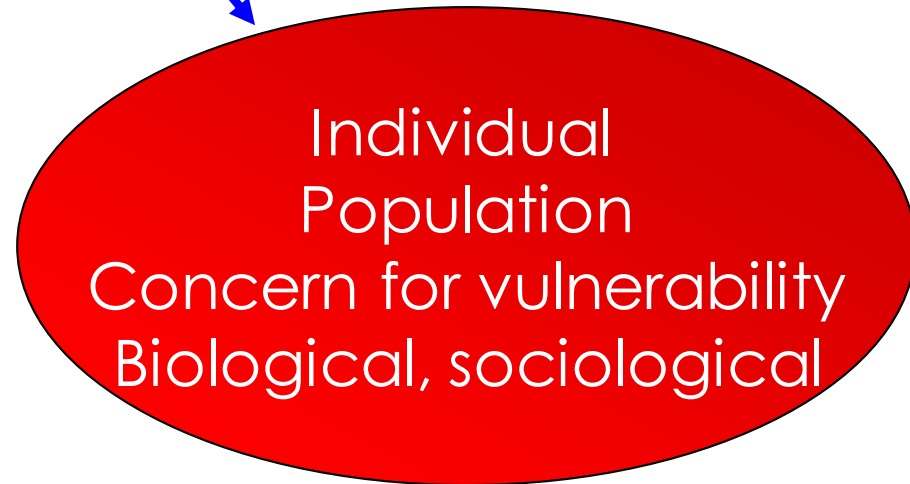
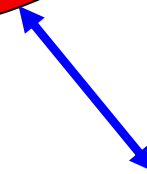
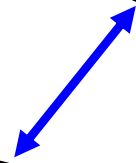


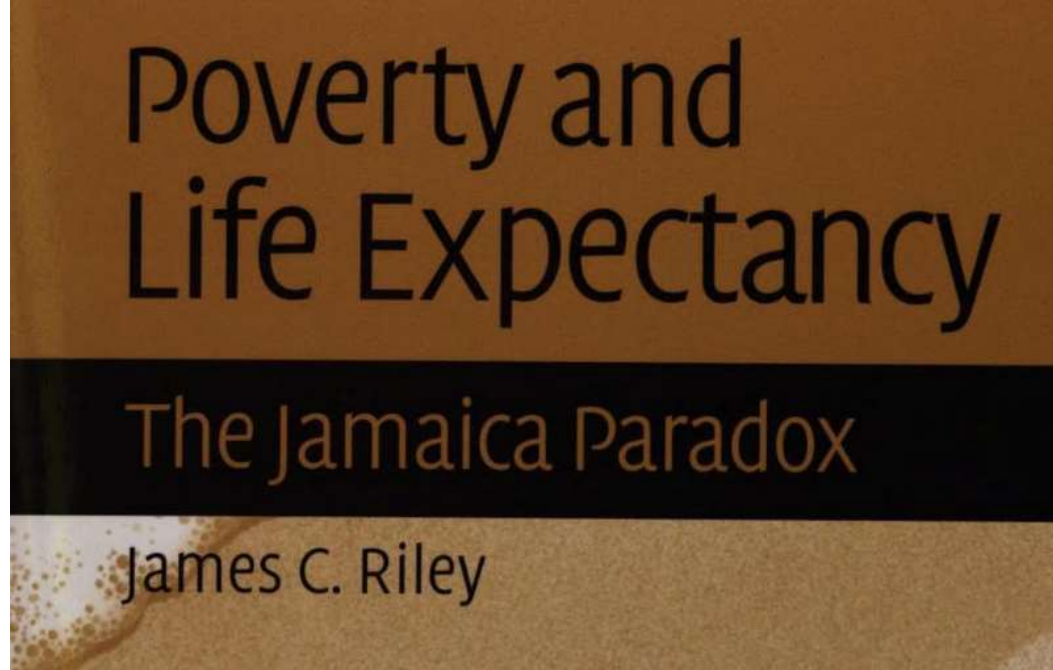
Considerations for the Health System for Addressing the Double Burden of Malnutrition

Alan A Jackson
University of Southampton

International Symposium
Understanding the Double Burden of Malnutrition for
Effective Interventions
Vienna, Austria. 10 – 13 December 2018

Health is a Social Challenge NOT a Medical Problem





Individual vs Community

mutual support for better practice

Healthy opportunity for growth vs unhealthy options

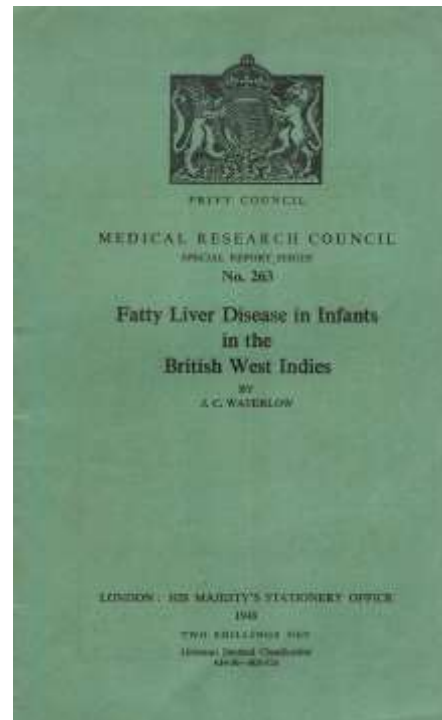
insist on best environment for children

empower and enable women

Leadership

government and their health advisors

John Waterlow
TMRU, Jamaica
Application of isotopic
methodologies, 1960

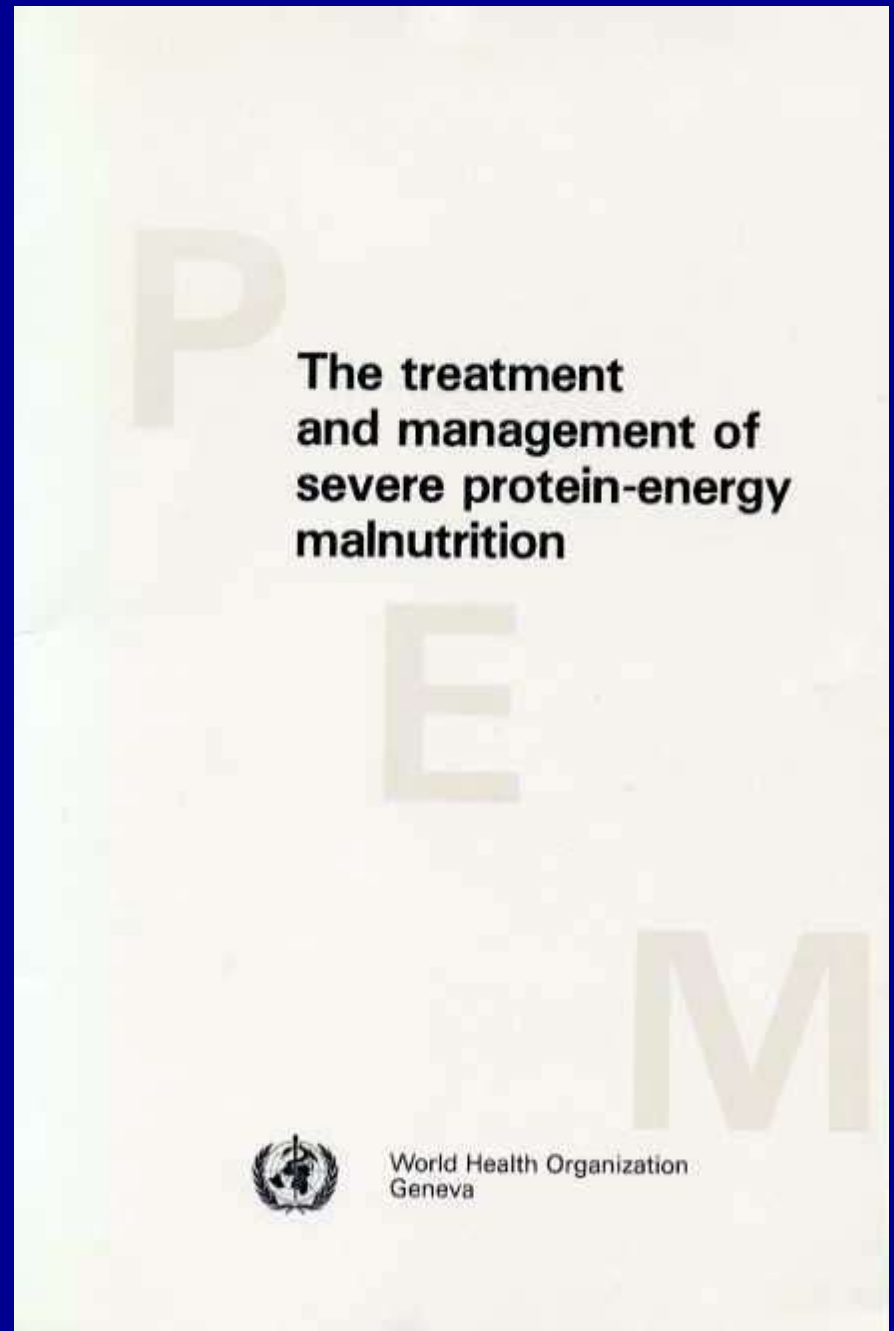


Non-alcoholic fatty liver disease

WHO Treatment Manual

Severe Malnutrition

1981



Schofield & Ashworth, 1993

Management of Severe Malnutrition

Case Mortality over 20%

Good case management less than 5 - 10%

	Case Fatality %	
1950's	20	9 - 50
1960's	26	11 - 53
1970's	25	16 - 37
1980's	14	3 - 53
1990's	22	4 - 34

Revised WHO Guidelines, 1999

Doing Simple Things Well

**Management of
severe malnutrition:**
a manual for physicians and
other senior health workers



Nutritional Lens

Effective care counterintuitive

Good basic science
to characterise metabolic phenotype,
to enable translation
to effective clinical care

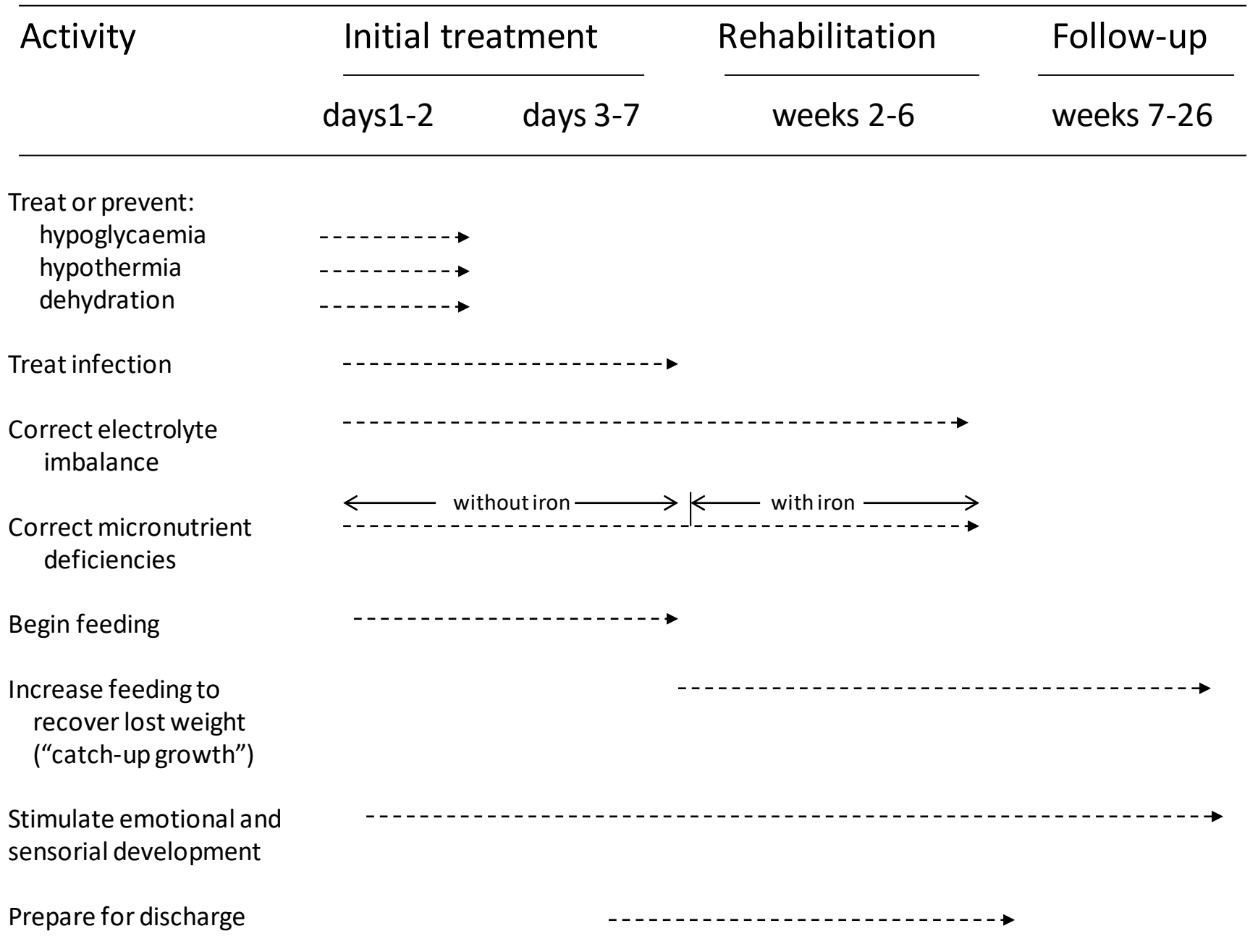
Reductive adaptation:
protein turnover

Specific nutrient deficiencies
K⁺ , Zn.

Silent infection, stressors

Ten point structured care

WHO: ten steps to treating severe malnutrition



Successes: % dying before and after implementation of WHO guidelines

Before After

Brazil (IMIP)	31%	11%
Ecuador	70%	8%
India	17%	3%
Myanmar	18%	9%
Bangladesh (ICDDR)	19%	3%

Community Based Care: Severe Acute Malnutrition



COMMUNITY-BASED MANAGEMENT OF SEVERE ACUTE MALNUTRITION

A Joint Statement by the World Health Organization, the World Food Programme, the United Nations System Standing Committee on Nutrition and the United Nations Children's Fund

Active case finding
Assessment for
severe acute malnutrition

degree of wasting

Treat:

Ready to Use Therapeutic Food
RUTF

DEVELOPMENT CONTEXT?

IUNS Malnutrition Task Force: Tanzania 2006

Integrated Management of Malnutrition
Nutritional status (anthropometry)

Normal

Food security

Mild to moderate
malnutrition,
stunting

Supplementary feeding

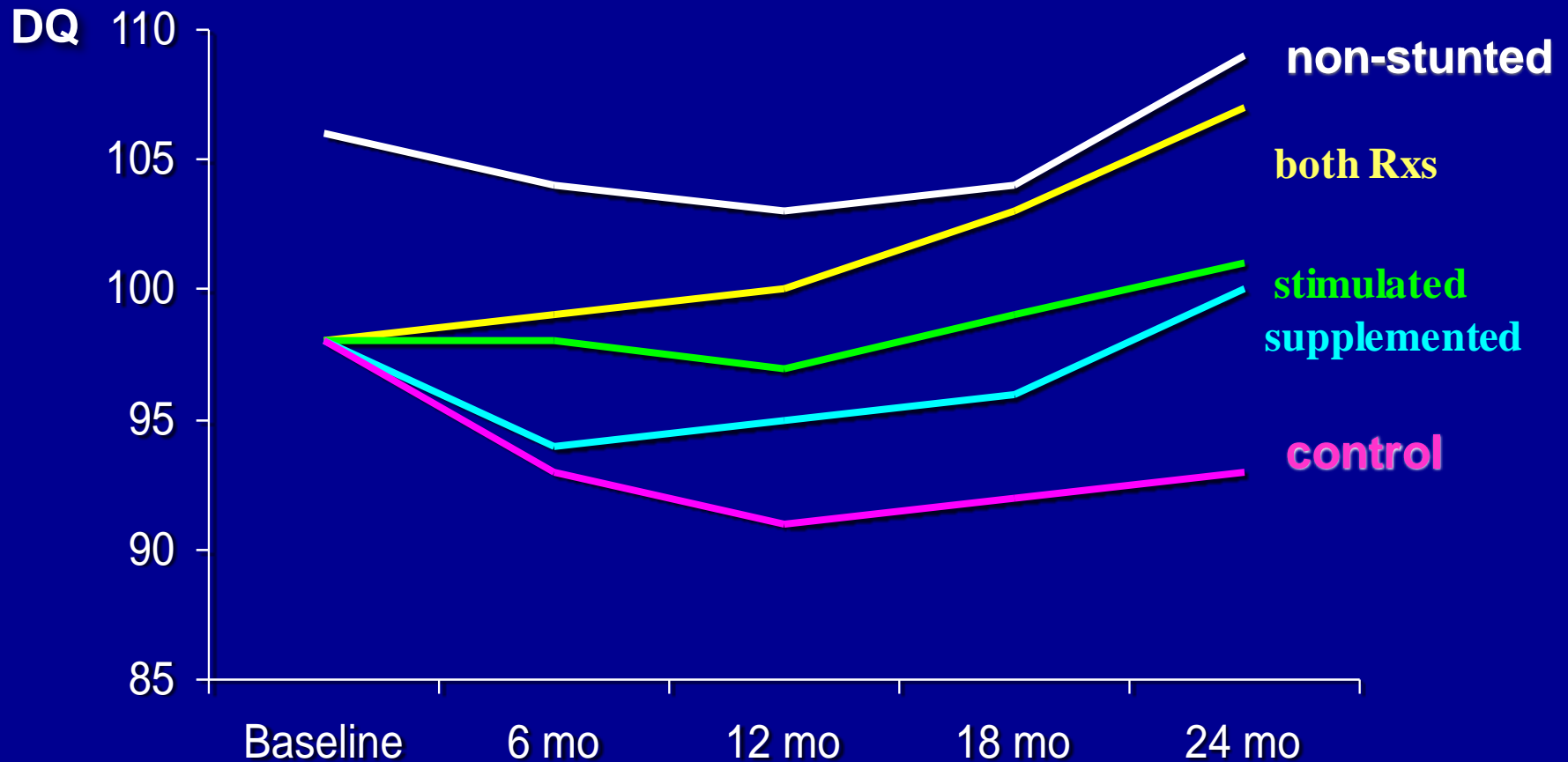
Severe Acute
Malnutrition

Therapeutic food

Severe Acute
Malnutrition
- oedema
- appetite loss

Facility based care

Remedial supplementation + stimulation: RCT with Jamaican stunted children

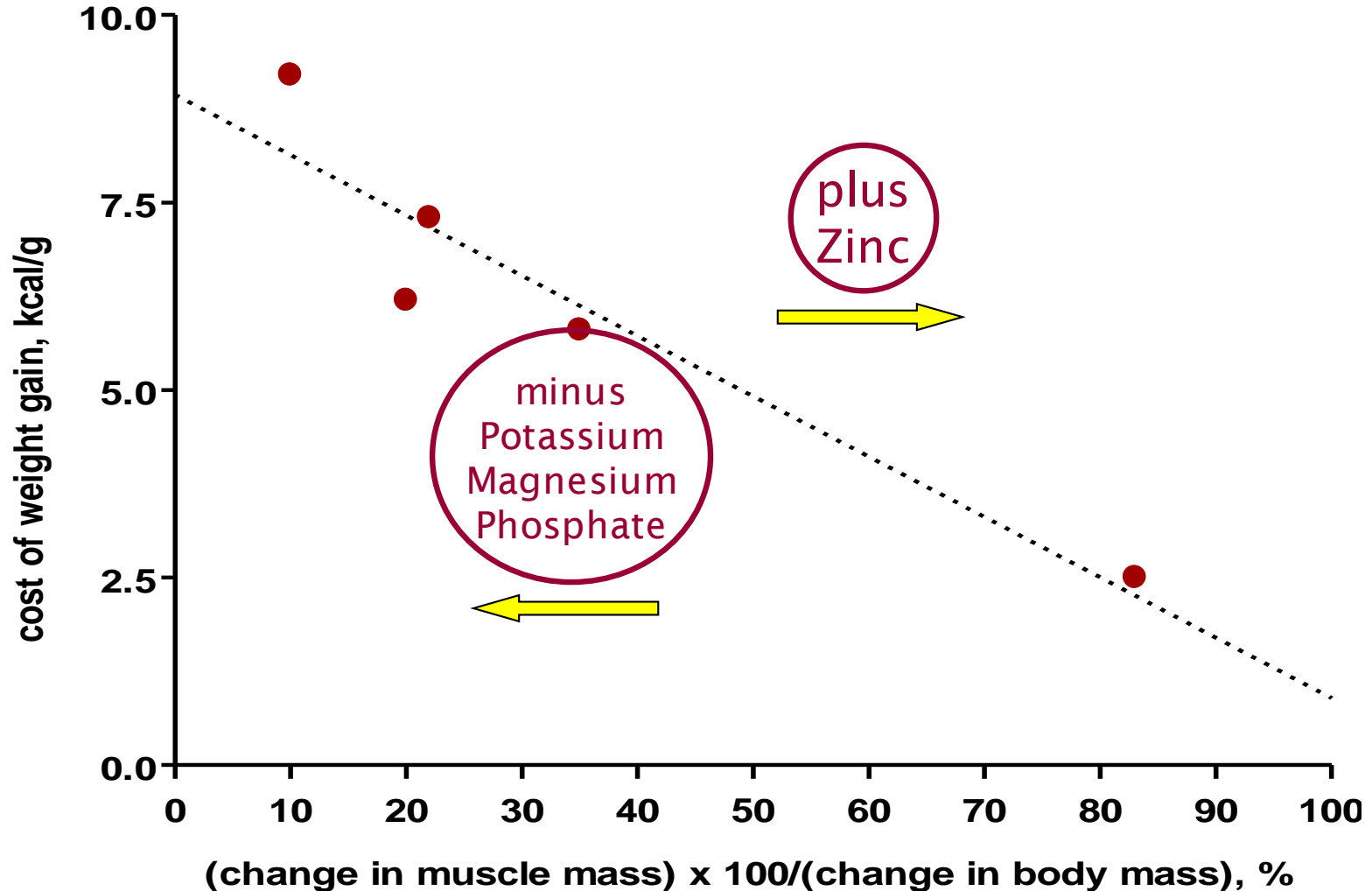


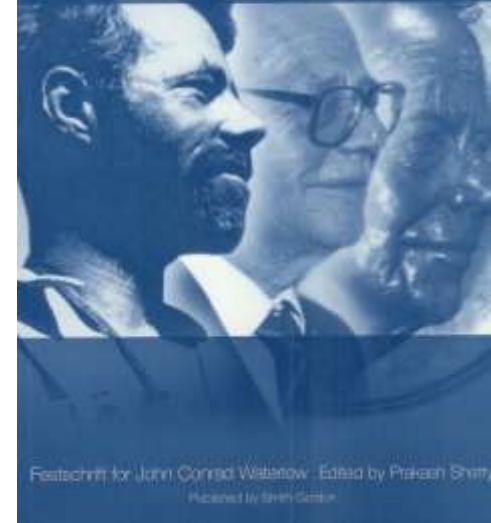
Grantham-McGregor et al, 1991

Jamaica Home Visiting Intervention Study

Quantity versus Quality: recovery of lost weight

Cost of Growth in relation to Change in Body Composition
during recovery from severe malnutrition
Jackson, 1977





School of thought

dynamic tension, equipoise
adaptation, resilience
multilevel systems problem solving

Aspire after excellence

intellectual enquiry, creative reflection
address real problems of practical significance
adopt/adapt state of the art technologies

Trust

people, share, mentor, high expectations
honesty, openness, transparency
organised application – efficiency
research delivery pipeline
discovery, efficacy, effectiveness, going to scale

Malnutrition eLearning: International Malnutrition Task Force

Pre-service training and in-service training

Increased knowledge.

Changed attitudes.

Changed behaviour

Changed organisation and delivery of practice

Improved identification and treatment

Saved lives.

Model: Community Based Approach

Create an Environment/People Centred Health Systems

Cannot do it TO people – pharma model

Have to do it for themselves: help, encourage, enable

Age-friendly communities that foster support for younger and older age groups

Community based care: fit for purpose, context specific

Develop skilled capability

Role of Stressors