

TRAINING FOR IMPROVED PRACTICE: Public Health and Nutrition in Emergencies

Nutritional and Food Security Surveillance

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with:**

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**Mailman School of
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**International Emergency
and Refugee Health Branch,
Centers for Disease Control**

Overview

- Objectives and characteristics of nutritional surveillance
- Different types of surveillance
 - Repeated Nutrition Surveys
 - Clinic-based Surveillance
 - Sentinel Site Food Security and Nutritional Surveillance

Exercise

Examples of Nutritional Surveillance

P. 5 to 10 of the FIVIMs report

- What was the data used for?
- How was the data obtained i.e. through what structure or method?

Participant Presentation

Examples...

- **Bangladesh**
 - nationwide monitoring used to monitor impact of floods on nutritional status & response
- **Ethiopia**
 - Repeated surveys to target food aid and assess impact (drought & food relief, seeds/tools, SFPs/TFPs)
- **Ghana**
 - Clinic based monitoring data used to detect deterioration in nutritional status & declaration of emergency & request for assistance
- **Bangladesh**
 - Nationwide community (village) based growth monitoring for screening, follow-up and monitoring for SFP. Also BMI of pregnant women in the SFPs. Support national decision-making for resource allocation
- **Sudan**
 - Community based nutritional surveillance for timely early warning (sentinel sites).
- **Costa Rica & Panama**
 - School census in 1979 & 1989. Indicator of improvements in 'quality of life' (stunting)

Objectives of Surveillance Systems

- Programme design
- Programme management and evaluation
- Policy making
- Crisis management or early warning
- Advocacy

All have potential.

Bangladesh SFP for children & pregnant women, Ethiopia targeting of food aid & evaluation

Costa Rica??

Bangladesh Floods; Drought in Darfur; Ghana

Darfur, Sudan,

Ghana

Formulate objectives

Take one example and formulate an appropriate objective.

- Specific
- Measurable
- Achievable
- Realistic
- Timebound

Methods Used in Surveillance in Emergencies and Ongoing Crises

- Repeated Nutrition Surveys
- MCH based Surveillance
- Sentinel Site Food Security and Nutritional Surveillance
- (census data)

Key Indicators

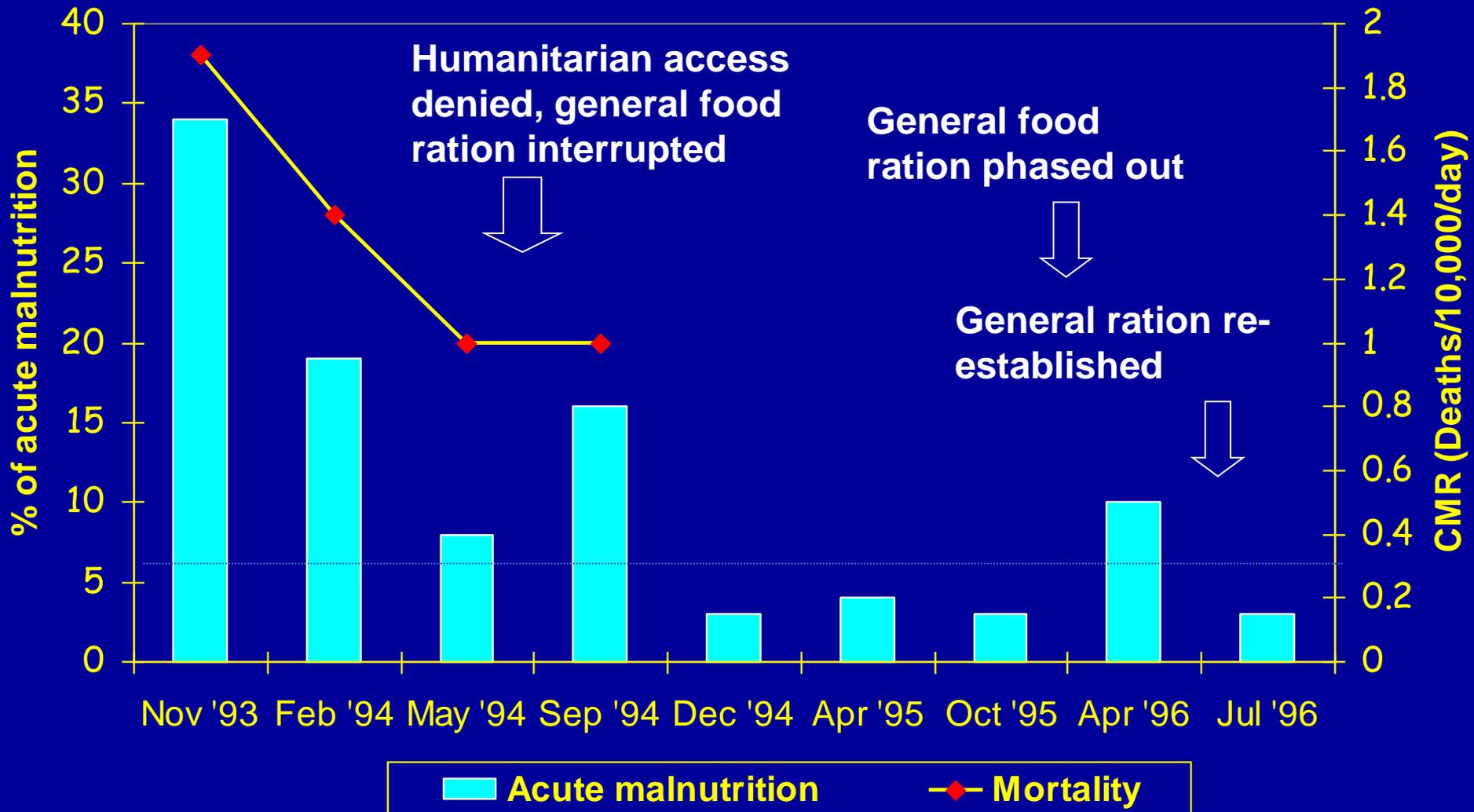
- Nutritional Status (table 1 p18)
 - WFA, WFH, BMI, HFA, low birthweight.

What other information do you need?

- Food Security (existing sources e.g? Where else and at what level?)
- Care
- Public Health, Water & Sanitation (HIS)

Must relate to objectives

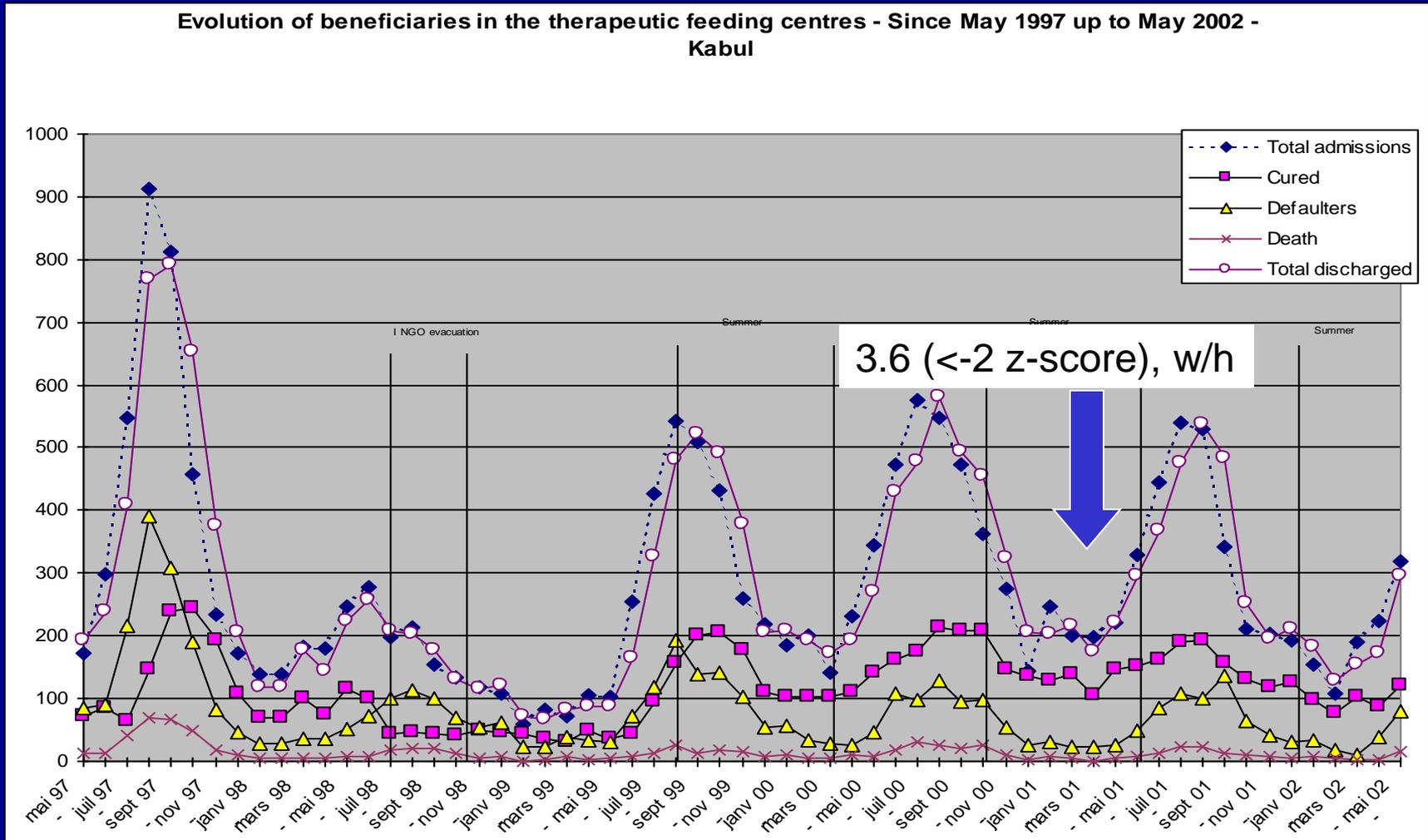
Repeated Surveys for Surveillance Melange, Angola



Source: Borrel, A. and Salama, P. (1999) Disasters 19:4.

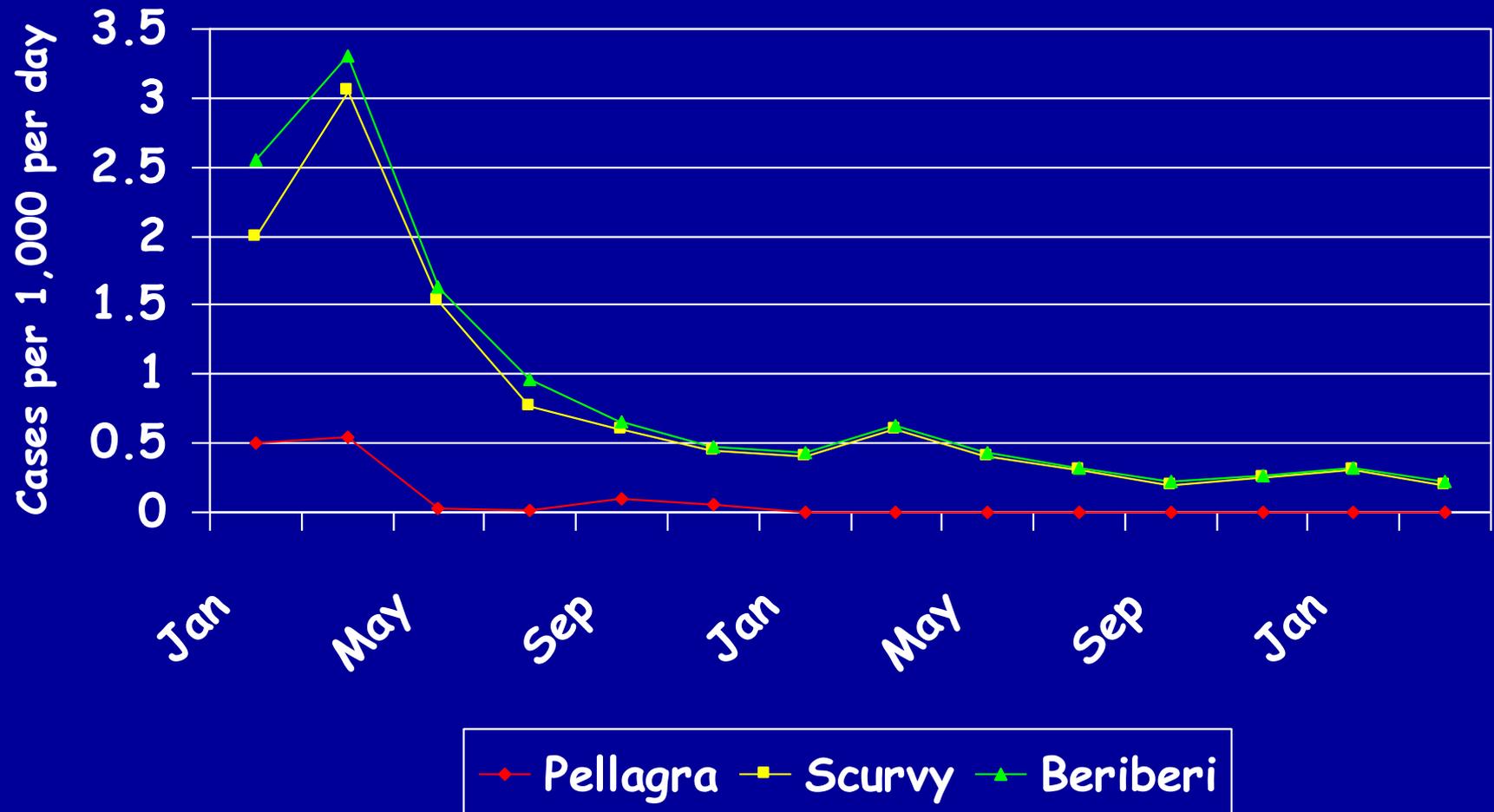
Kabul Afghanistan ('97 – '02)

Total Admissions to SFPs



August 2003 - 11.6% (<-2 z-score, weight for height)

Bhutanese Refugees in Nepal: Surveillance (Jan '94 - Mar '96)



Clinic-based: Growth Monitoring Advantages & Disadvantages

Advantages

- Information already collected as management tool for mothers ('growth promotion')
- Building and strengthening existing national health information system

Disadvantages

- Population attending clinics not representative
- Growth Monitoring designed as a 'growth promotion' tool
- Adequacy of:
 - Skills
 - equipment
 - analysis
- Composite index
- Timeliness & challenges of centralised analysis
- Growth monitoring data not useful in isolation

Characteristics of a Surveillance System

- Simple
- Flexible
- Acceptable
- Representative
- Timely
- Useful
- Affordable

UNICEF's Role

- Importance to UNICEF and national governments?
- Opportunities for inter-agency collaboration (FAO, WHO, WFP, World Bank, INGOs)
- Future technologies & opportunities– are we investing enough?
- Resources

Review and Conclusions

- Objectives – relevance?
- Causes of malnutrition (complementarities)
- Flexibility & range of approaches
- Replicability and reliability