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REFERENCES

(Bahwere et al., 2006)

Bahwere, P., Marthias, C.J., Sadler, K., Grobler-Tanner, C., Piwoz, E., Guerrero, S., et al. 'Integrating HIV Services into a Community Therapeutic Care (CTC) Programme in Malawi: An Operational Research Study.' In press 2006

(Briend et al., 1999)

Briend, A. Lascala, R. Prudhon, C. Mounier, B. Grellety, Y and Golden, MH. 'Ready-to-use Therapeutic Food for Treatment of Marasmus', *The Lancet* 353 (9166), 1999: 1767-68

(Collins, 2001)

Collins, S. 'Changing the Way we Address Severe Malnutrition During Famine', *The Lancet* 358, 2001: 498-501

(Collins and Sadler, 2002)

Collins, S. and Sadler, K. 'The Outpatient Treatment of Severe Malnutrition During Humanitarian Relief Programmes', *The Lancet* 360, 2002: 1824-30

(Collins and Yates, 2003)

Collins, S. and Yates, R. 'The Need to Update the Classification of Acute Malnutrition' *The Lancet* 362, (9379), 2003:249

(Collins et al., 2000)

Collins S, Duffield A, Myatt M. 'Adults. Assessment of Nutritional Status in Emergency Affected Populations.' RNIS Supplement ACC/SCN July 2000

(Diop et al., 2003)

Diop, El. Dossou, NI. Ndour, MM. Briend, A. and Wade, S. 'Comparison of the Efficacy of a Solid Ready to Use Food and a Liquid Milk-based Diet for the Rehabilitation of Severely Malnourished Children: A Randomized Trial', *American Journal of Clinical Nutrition*, August 2003;78(2):302-7

(Donnen et al., 1998)

Donnen, P. Dramaix, M. Brasseur, D. Bitwe, R. Vertongen, F. and Hennart, P. 'Randomized Placebo-controlled Clinical Trial of the Effect of a Single High Dose or Daily Low Doses of Vitamin A on the Morbidity of Hospitalized, Malnourished Children', *American Journal of Clinical Nutrition* 68, 1998: 1254-60

(Donnen et al., 2003)

Donnen, P., Sylla, A., Dramaix, M., Sall, G., Kuakivi, N., Hennart, P., School of Public Health, Department of Epidemiology and Preventive Medicine, Université Libre de Bruxelles, Belgium and Hôpital Le Dantec, Dakar, Senegal. 'Daily low doses of vitamin A compared with single high dose improves survival of malnourished children in Senegal.' XXI IVACG meeting, February 3-5th 2003, Marrakech. Poster T15.

<http://ivacg.ilsa.org/file/IVACGfinal.pdf>

(ENN et al., 2004)

ENN, IBFAN, Terre des hommes, UNICEF, UNHCR, WHO, WFP. *Infant Feeding in Emergencies*, Module 2, December 2004

(FANTA, 2004/a)

Food and Nutrition Technical Assistance (FANTA) Project, Academy for Educational Development (AED), Rogers, BL. and Macías, KE. 'Program Graduation and Exit Strategies: A Focus on Title II Food Aid Development Programs,' Washington, D.C., November 2004

(FANTA, 2004/b)

Food and Nutrition Technical Assistance (FANTA) Project, Academy for Educational Development (AED) 'HIV/AIDS: A Guide for Nutritional, Care and Support' Washington, D.C., October 2004

(Fellows, 2004)

Fellows, P. 'Local Production of RUTF' 'Community-based Therapeutic Care (CTC)', *ENN Special Supplement Series, No.2*, Khara, T and Collins, S. (ed). November 2004

(Grellety, 2001)

Grellety, Y. 'Nutrition Assessment, SCF Sudan, North East Darfur,' December 2001, Unpublished

(IFRC, 1994)

International Federation of Red Cross and Red Crescent Societies. *Code of Conduct for the International Red Cross and Red Crescent Movement and Non-governmental Organisations (NGOs) in Disaster Relief*, 1994

<http://www.ifrc.org/publicat/conduct/code.asp>

(INACG, 1998)

Stoltzfus, R. and Dreyfuss, M. 'Guidelines for the Use of Iron Supplements to Prevent and Treat Iron Deficiency Anaemia', *International Nutritional Anaemia Consultative Group (INACG)*, ILSI Press, 1998

(Interagency Working Group, 2001)

Interagency Working Group. *Infant and Young Child Feeding in Emergencies - Operational Guidance*, Module 1, November 2001

(Lescanne, 2005)

Lescanne, M. 'Nutriset' s Statement on Long-Term Availability of Plumpy'nut.' Letter published in *ENN*; Issue 24, page 17, March 2005

(LINKAGES/CORE, 2004)

LINKAGES and CORE. *Maternal Nutrition During Pregnancy and Lactation: Dietary Guide*, 2004

(Mates, 2004)

Mates, E. 'Institutional Integration of CTC with Existing Clinical Health Systems', *ENN Special Supplement Series, No.2, Community-based Therapeutic Care (CTC)*, November 2004

(Meyers et al., 2001)

Meyers, JS., Ehrenpreis, ED., and Craig, RM., 'Small Intestinal Bacterial Overgrowth Syndrome', 4.1, 2001: 7-14

(Minear, 1994)

Minear, L. 'The International Relief System: A Critical Review', *Parallel National Intelligence Estimate on Global Humanitarian Emergencies*, Washington DC, September 1994

(Montresor et al., 2003)

Montresor, A., Awasthi, S. and Crompton, DW. 'Use of Benzimidazoles in Children Younger than 24 Months for the Treatment of Soil-transmitted Helminthiasis', *Acta Tropica*, 2003 May: 86 (2-3): 223-32

(MSF, 1995)

Boelaert, M. Austen, D. Lelin, B. Michelet, M.J. Ritmeijer, K. Van der Kam, S. and Vautier, F. 'Nutrition Guidelines', 1 ed. Paris: *Médecins Sans Frontières*, 1995 and 'Nutrition Guidelines Revised 2004' (Draft)

(Myatt et al., 2005)

Myatt, MA, Feleke, T. Sadler, K and Collins, S. 'A Field Trial of a Survey Method for Estimating the Coverage of Selective Feeding Programs', *Bull. World Health Organisation* 2005: 83.1: 20-26

(Myatt et al., 2006)

Myatt, MA, Khara, T. and Collins, S. 'A Review of Methods to Detect Cases of Severely Malnourished Children in the Community for their Admission into Community-based Therapeutic Care Programmes.' Report for the WHO Informal Global Consultation for the Community-based Management of Severe Malnutrition. Submitted for publication - January 2006.

(Nestel et al., 2003)

Nestel, P, Briend, A. de Benoist, B. Decker, E. Ferguson, E. Fontaine, O. Micardi, A. Nalubola, R. 'Complementary Food Supplements to Achieve Micronutrient Adequacy for Infants and Young Children', *Journal of Paediatric Gastroenterology and Nutrition*, 36 (3) 2003: 316-28

(OECD/DAC, 1991)

OECD/Development Assistance Committee. 'Principles for Evaluation of Development Assistance', *Organisation for Economic Co-operation and Development*, Paris, 1991

(Sadler et al. 2006)

Sadler K, Bahwere P, Guerrero S, Collins S. 'Community-based Therapeutic Care in HIV-Affected Populations.' *Trans Royal Society Tropical Medical Hygiene* 2006; 100(1):6-9.

(SCUK, 2004)

Save the Children UK. 'Emergency Nutrition Assessment. Guidelines for Field Workers', November 2004

(SPHERE, 2004)

SPHERE Project Team. 'The SPHERE Humanitarian Charter and Minimum Standards in Disaster Response'. 2 ed. Geneva: The SPHERE Project, 2004

(UNICEF, 1990)

UNICEF. *Strategy for Improved Nutrition of Children and Women in Developing Countries*, UNICEF, New York, 1990 (Report)

(USAID, 2000)

USAID. *Commodities Reference Guide, 2000*

http://www.usaid.gov/our_work/humanitarian_assistance/ffp/crg/

(Walsh and Faroug, 2004)

Walsh, A. and Faroug, T. '*Report on field visits to NGOs carrying out CTC or similar non centre based feeding programmes in Darfur*', November 2004 (Report)

(Wang et al., 1999)

Wang, P. Brobey, B. Horii, T. Sims, G. and Hyde, E. 'Utilization of Exogenous Folate in the Human Malaria Parasite *Plasmodium Falciparum* and its Critical Role in Antifolate Drug Synergy', *Molecular Microbiology*; 32(6), 1999: 1254-1262

(WHO, 1999/a)

WHO. *Management of Severe Malnutrition: A Manual for Physicians and Other Senior Health Workers*, Geneva, 1999

(WHO, 1999/b)

Philips, R. and Shawney, P. (ed). '*Nutrition Essentials: A Guide for Managers*', WHO, Geneva, 1999

(WHO, 2000/a)

WHO. *The Management of Nutrition in Major Emergencies*, Geneva, 2000

(WHO, 2000/b)

WHO. 'Management of the Child with Serious Infection or Severe Malnutrition: Guidelines for Care at the First-Referral Level in Developing Countries'. *WHO Department of Child and Adolescent Health and Development*, Geneva, 2000

(WHO, 2004)

WHO. *Report of a Consultation to Review Current Literature on Severe Malnutrition*, Geneva, 2004 (Report)

(WHO, 2005/a)

WHO. Support for Analysis and Research in Africa (SARA), Academy for Educational Development (AED) and Valid International. *A Study to Examine the Use of Community Therapeutic Care (CTC) as an Entry Point for the Support to HIV/AIDS Infected Individuals and Affected Households and*

Communities. Preliminary findings presented at the WHO consultation on HIV/AIDS and Nutrition, Durban, April 2005

(WHO, 2005/b)

WHO. 'Health Topics: Nutrition and Food Safety', *WHO Technical Information in Nutrition*, 2005

(Woodruff and Duffield, 2000)

Woodruff, B. and Duffield, A. 'Adolescents: Assessment of Nutritional Status in Emergency Affected Populations, Refugee Nutrition Information System (RNIS) Supplement', *United Nations System Standing Committee on Nutrition (SCN) (formerly ACC Subcommittee on Nutrition)* Geneva, 2000

CDC. *Guidelines for Environmental Infection Control in Health-Care Facilities*, 2003

<http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5210a1.htm#top>

Hallam, A. 'Evaluating Humanitarian Assistance Programmes in Complex Emergencies', Eds. Borton, J. Gibbons, L. and Longford, S. London: *Relief and Rehabilitation Network ODI*, 1998

UNHCR. '*Handbook for Emergencies, Second Edition.*' Geneva, 2000

USAID Bureau for Democracy, Conflict and Humanitarian Assistance Office of U.S. Foreign Disaster Assistance (OFDA). *Field Operations Guide for Disaster Assessment and Response: Version 4.0*, September 2005

WFP. *Food and Nutrition Handbook*, Rome, 2001

BIBLIOGRAPHY

- Aaby, P. 'Malnutrition and Overcrowding/Intensive Exposure in Severe Measles Infection: Review of Community Studies', *Review of Infectious Disease*, 1988 Mar-Apr: 10(2):478-91
- Ad Hoc Group Report. 'Infant Feeding in Emergencies: Policy, Strategy and Practice', *Report of the Ad Hoc Group on Infant Feeding in Emergencies*, May 1999
- Briend, A., Lacsala, R., Prudhon, C., Mounier, B., Grellety, Y. and Golden, MH. 'Ready-to-use Therapeutic Food for Treatment of Marasmus' (Letter)
- Butler, JC. Havens, PL. Sowell, AL. Huff, DL. Peterson, DE. Day, SE. Chusid, MJ. Bennin, RA. Circo, R. and Davis, JP. 'Measles Severity and Serum Retinol (vitamin A) Concentration among Children in the United States', *Pediatrics*, 1993 Jun: 91(6):1176-81
- Collins, HL. 'The Role of Iron in Infections with Intracellular Bacteria', *Immunol Lett*: 2003 Jan 22: 85(2): 193-5
- Collins, S. and Khara, T. (Compiled and Edited) *ENN Special Supplement Series No. 2, Community-based Therapeutic Care (CTC)*, November 2004: 2:37-38
- Diop, El. Dossou, NI. Ndour, MM. Briend, A. and Wade, S. 'Experience with Ready-to-use Therapeutic Food in Senegal', *Equipe de Nutrition, Faculte des Sciences et Techniques UCAD, Dakar, Senegal and Institut de Recherche pour le Developpement*, 2003
- Diop, El. Dossou, NI, Briend, A. Yaya, MI. Ndour, MM. and Wade, S. 'Home-based Rehabilitation for Severely Malnourished Children Using Locally Made Ready-to-use Therapeutic Food (RTUF)', *Reports from the 2nd World Congress of Pediatric Gastroenterology, Hepatology and Nutrition*, Paris, 2004 Jul 3-7: 101-105
- Fuhrmann, MP. Charney, P. and Mueller, CM. 'Hepatic Proteins and Nutrition Assessment', *J Am Diet Assoc*. Aug. 2004: 104(8):1258-64
- Gera, T. and Sachev, HPS. 'Effect of Iron Supplementation on Incidence of Infectious Illness in Children: Systematic Review', *BMJ*, 2002: 325:1142

- Golden, M. and Grellety Y, 'The Management of Severe Acute Malnutrition' (UNICEF, Ethiopia: 2002)
- Krueger, R. 'Focus Groups: A Practical Guide for Applied Research', Sage, Thousand Oaks, C.A. 1994
- Morley, DC. Aaby, P. Kennedy, I. Havinga, WH. and Hussey, G. 'Managing Measles', *BMJ*, 7 June 1997: 314:1692
- Myatt, MA. 'Methods to Analyse Coverage of Nutrition Programmes', *ENN Report on the Proceedings of an Inter-agency Workshop, Community Based Approaches to Managing Severe Malnutrition*, Dublin, 2004: 6-7
- Pinedo, S. Solano, D. de la Villa, FM. and Bilbao Goitia, P. 'Protein-calorie Malnutrition and Degree of Hepatic Failure in Chronic Hepatopathy', *Rev Esp Enferm Dig.* 1993 Dec; 84 (6):381-5. (Spanish)
- Pruss, A. Giroulot, E. and Rushbrook, P. 'Safe Management of Wastes from Healthcare Activities', *WHO*, 1999
http://www.who.int/water_sanitation_health/medicalwaste/wastemanag/en/
- Save the Children UK. 'Children's Participation in OVC Programming', *OVC Participation Report*, August 2004
- Schutt, R. 'Investigating the Social World: The Process and Practice of Research', 4th Ed. Sage, Thousand Oaks, C.A. 1999
- UNHCR, UNICEF, WFP and WHO. *Food and Nutrition Needs in Emergencies*, 2002
- USAID Bureau for Democracy, Conflict and Humanitarian Assistance Office of U.S. Foreign Disaster Assistance (OFDA). *Field Operations Guide for Disaster Assessment and Response: Version 4.0*, September 2005
- WHO. 'A Review of Methods to Detect Cases of Severely Malnourished Children in the Community for their Admission into Community-based Therapeutic Care Programmes' Paper', *WHO Informal Global Consultation for the Community-based Management of Severe Malnutrition*, Geneva, 21st - 23rd November 2005
- Velzeboer, M I. Selwyn, BJ. Sargent, F. Pollitt, E. Delgado, H. 'The Use of Arm Circumference in Simplified Screening for Acute Malnutrition by Minimally Trained Health Workers', *Jr.Top.Pediatr.* 29, 1983: 159-66.

This manual is a practical guide to help health and nutrition workers to design, implement, monitor and evaluate CTC programmes. It can be used by programme managers and by government institutions and donors interested in supporting or implementing CTC programmes. It will also help technical specialists and field practitioners in NGOs, UN agencies, government and donor agencies seeking to obtain an understanding of CTC in practice.

This manual is available in print and on CD from Valid International, Concern Worldwide and the FANTA Project, and can be downloaded at www.validinternational.org, www.concern.net or www.fantaproject.org.



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