

Risks of Artificial Feeding

Les risques de l'alimentation artificielle

(Studies done mostly in affluent societies)
(Études effectuées surtout dans les sociétés affluentes)

Risks to infant and child (global) - Risques pour l'enfant (études générales)

1. Walker M. A fresh look at the risks of artificial feeding. *J Hum Lact* 1993;9:97-107
2. Cunningham AS, Jelliffe DB, Jelliffe EFP. Breastfeeding and health in the 1980's: a global epidemiologic review. *J Pediatr* 1991;118:659-66

Cognitive Development (développement cognitif)

- CD (review): Andraca I, Uauy R. Breastfeeding for optimal mental development. Simopoulos AP, Dutra de Oliveira JE, Desai ID (eds): Behavioral and Metabolic Aspects of Breastfeeding. World Rev Nutr Diet. Basel, Karger, 1995;78:1-27
- CD-1: Morrow-Thucak M, Haude RH, Ernhart CB. Breastfeeding and cognitive development in the first 2 years of life. *Soc Sci Med* 1988;26:635-9
- CD-2: Taylor B, Wadsworth J. Breastfeeding and child development at five years. *Dev Med Child Neurol* 1984;26:73-80
- CD-3: Lucas A, Morley R, Cole TJ, Lister G, Leeson-Payne C. Breastmilk and subsequent intelligence quotient in children born preterm. *Lancet* 1992;339:261-4
- CD-4: Nettleton JA. Are n-3 fatty acids essential nutrients for fetal and infant development. *J Am Diet Assoc* 1993;93:58-64
- CD-5: Rogan WJ, Gladen BC. Breastfeeding and cognitive development. *Early Hum Dev* 1993;31:181-93
- CD-6: Silver LB, Levinson RB, Laskin CR, Pilot LJ. Learning disabilities as a probable consequence of using chloride-deficient infant formula. *J Pediatr* 1989;115:97-9
- CD-7: Willoughby A, Moss HA, Hubbard VS, Bercu BB, Graubard BI, Vietze PM, et al. Developmental outcome in children exposed to chloride deficient formula. *Pediatrics* 1987;79:851-7
- CD-8: Wing CS. Defective infant formulas and expressive language problems: a case study. *Language, Speech and Hearing Services in Schools* 1990;21:22-7
- CD-9: Crawford MA. The role of essential fatty acids in neural development: implications for perinatal nutrition. *Am J Clin Nutr* 1993;57(suppl):703S-10S
- CD-10: Temboury MC, Otero A, Polanco I, Arribas E. Influence of breastfeeding on the infant's intellectual development. *J Pediatric Gastroenterol Nutr* 1994;18:32-36
- CD-11: Pollock JI. Longterm associations with infant feeding in a clinically advantaged population of babies. *Dev Med Child Neur* 1994;36:429-40
- CD-12: Makrides M, Neumann MA, Byard RW, Simmer K, Gibson RA. Fatty acid composition of brain, retina and erythrocytes in breast and formula fed infants. *Am J Clin Nutr* 1994;60:189-94
- CD-14: Anderson GJ, Connor WE, Corliss JD. Docosahexaenoic acid is the preferred dietary n-3 fatty acid for the development of the brain and retina. *Pediatr Res* 1990;27:87-97
- CD-15: Neuringer M, Connor WE, Lin DS, Barstad L, Luck S. Biochemical and functional effects of prenatal and postnatal fatty acid deficiency on retina and brain in rhesus monkeys. *Proc Natl Acad Sc USA* 1986;83:4021-5
- CD-16: Florey C Du V, Leech AM, Blackhall A. Infant feeding and mental and motor development at 18 months of age in first born singletons. *Int J Epidem* 1995;24 (Suppl 1):S21-6
- CD-17: Wang YS, Wu SY. The effect of exclusive breastfeeding on development and incidence of infection in infants. *JHL* 1996;12:27-30
- CD-18: Greene LC, Lucas A, Livingstone BE, Harland PSEG, Baker BA. Relationship between early diet and subsequent cognitive performance during adolescence. *Biochem Soc Trans* 1995;23:376S
- CD-19: Riva E, Agostoni C, Biasucci G, Trojan S, Luotti D, Fiori L, et al. Early breastfeeding is linked to

higher intelligence quotient scores in dietary treated phenylketonuric children. *Acta Pædiatr* 1996;85:56-8
CD-20: Niemelä A, Järvenpää A-L. Is breastfeeding beneficial and maternal smoking harmful to the cognitive development of children? *Acta Pædiatr* 1996;85:1202-6
CD-21: Rodgers B. Feeding in infancy and later ability and attainment: a longitudinal study. *Devel Med Child Neurol* 1978;20:421-6
CD-22: Horwood LJ, Fergusson DM. Breastfeeding and later cognitive and academic outcomes. *Pediatrics* 1998;101:p. e9

SIDS (Mort subite du nourrisson)

SIDS-1: Mitchell EA, Scragg R, Stewart AW, Becroft DMO, Taylor BJ, For RPK, et al. Results from the first year of the New Zealand cot death study. *NZ Med J* 1991;104:71-6

Insulin Dependent Diabetes (Diabète insulino-dépendant)

Working Group on Cow's Milk Protein and Diabetes Mellitus of the American Academy of Pediatrics. Infant feeding practices and their possible relationship to the etiology of diabetes mellitus. *Pediatrics* 1994;94:752-4

JD-1: Karjalainen J, Martin JM, Knip M, Ilonen J, Robinson BH, Savilahti E, et al. A bovine albumin peptide as a possible trigger of insulin-dependent diabetes mellitus. *N Eng J Med* 1992;327:302-7

JD-2: Mayer EJ, Hamman RF, Gay EC, Lezotte DC, Savitz DA, Klingensmith J. Reduced risk of IDDM among breastfed children. *Diabetes* 1988;37:1625-32

JD-3: Virtanen SM, Räsänen L, Ylönen K, Aro A, Clayton D, Langholz B, et al. Early introduction of dairy products associated with increased risk of IDDM in Finnish children. *Diabetes* 1993;42:1786-90

JD-4: Virtanen SM, Räsänen L, Aro A, Lindström J, Sippola H, Lounamaa R, et al. Infant feeding in Finnish children <7 yr of age with newly diagnosed IDDM. *Diabetes Care* 1991;14:415-17

JD-5: Gerstein HC. Cow's milk exposure and type I diabetes mellitus. *Diabetes Care* 1994;17:13-9

JD-6: Kostraba JN, Cruickshanks KJ, Lawler-Heavner J, Jobim LF, Rewers MJ, Gay EC, et al. Early exposure to cow's milk and solid foods in infancy, genetic predisposition, and risk of IDDM. *Diabetes* 1993;42:288-95

JD-7: Pérez-Bravo F, Carrasco E, Gutierrez-López MD, Martínez MT, López G, García de los Rios M. Genetic predisposition and environmental factors leading to the development of insulin-dependent diabetes mellitus in Chilean children. *J Mol Med* 1996;74:105-9

Cow milk Allergy and Intolerance (Allergie et intolérance au lait de vache)

CM-1: Høst A. Importance of the first meal on the development of cow's milk allergy and intolerance. *Allergy Proc* 1991;12:227-32

Respiratory Illness (Pathologies respiratoires)

RI-1: Pullan CR, Toms GL, Martin AJ, Gardner PS, Webb JKG, Appleton DR. Breastfeeding and respiratory syncytial virus infection. *Br Med J* 1980;281:1034-6

RI-2: Chiba Y, Minagawa T, Mito K, Nakane A, Suga K, Honjo T, Nakao T. Effect of breastfeeding on responses of systemic interferon and virus-specific lymphocyte transformation with respiratory syncytial virus infection. *J Med Virology* 1987;21:7-14

RI-3: Wright AL, Holberg CJ, Martinez FD, Morgan WJ, Taussig LM. Breastfeeding and lower respiratory tract illness in the first year of life. *Br Med J* 1989;299:946-9

RI-4: Porro E, Indinnimeo L, Antognoni G, Midulla F, Criscione S. Early wheezing and breastfeeding. *J Asthma* 1993;30:23-8

RI-5: Burr ML, Limb ES, Maguire JM, Amarah L, Eldridge BA, Layzell JCM, Merret TG. Infant feeding, wheezing, and allergy: a prospective study. *Arch Dis Child* 1993;68:724-28

RI-6: Pisacane A, Graziano L, Zona G, Granata G, Dolezalova H, Cafiero M, et al. Breastfeeding and acute lower respiratory infection. *Acta Pædiatr* 1994;83:714-18

- RI-7: Beaudry M, Dufour R, Marcoux S. Relation between infant feeding and infections during the first six months of life. *J Pediatr* 1995;126:191-7
- RI-8: Okamoto Y, Ogra PL. Antiviral factors in human milk: implications in respiratory syncytial virus infection. *Acta Pædiatr Scand Suppl* 1989;351:137-43
- RI-9: Downham MAPS, Scott R, Sims DG, Webb JKG, Gardner PS. Breastfeeding protects against respiratory syncytial virus infections. *Br Med J* 1976;2:274-6
- RI-10: Wright AL, Holberg CJ, Taussig LM, Martinez FD. Relationship of infant feeding to recurrent wheezing at age 6 years. *Arch Pediatr Adolesc Med* 1995;149:758-63
- RI-11: Yue Chen. Synergistic effect of passive smoking and artificial feeding on hospitalization for respiratory illness in early childhood. *Chest* 1989;95:1004-07

Otitis Media (Otitis)

- OM-1: Saarinen UM. Prolonged breastfeeding as prophylaxis for recurrent otitis media. *Acta Pediatr Scand* 1982;71:567-71
- OM-2: Teele DW, Klein JO, Rosner B. Epidemiology of otitis media during the first seven years of life in children in greater Boston: a prospective cohort study. *J Infect Dis* 1989;160:83-94
- OM-3: Duncan B, Ey J, Holberg CJ, Wright AL, Martinez FD, Taussig LJ. Exclusive breastfeeding for at least 4 months protects against otitis media. *Pediatrics* 1993;91:867-72
- OM-4: Owen MJ, Baldwin CD, Swank PR, Pannu AK, Johnson DL, Howie VM. Relation of infant feeding practices, cigarette smoke exposure and group child care to the onset and duration of otitis media with effusion in the first two years of life. *J Pediatr* 1993;123:702-11
- OM-5: Harabuchi Y, Faden H, Yamanaka N, Duffy L, Wolf J, Krystofik D. Human milk secretory IgA antibody to nontypeable *Haemophilus influenzae*: Possible protective effects against nasopharyngeal colonization. *J Pediatr* 1994;124:193-8
- OM-6: Aniansson G, Alm B, Andersson B, Håkansson A, Larsson P, Nylén O, et al. A prospective cohort study on breastfeeding and otitis media in Swedish infants. *Pediatr Infect Dis J* 1994;13:183-8
- OM-7: Paradise JL, Elster BA, Tan L. Evidence in infants with cleft palate that breast milk protects against otitis media. *Pediatrics* 1994;94:853-60
- OM-8: Sassen ML, Brand R, Grote JJ. Breastfeeding and acute otitis media. *Am J Otolaryn* 1994;15:351-7
- OM-9: Dewey KG, Heinig J, Nommsen-Rivers LA. Differences in morbidity between breastfed and formula fed infants. *J Pediatr* 1995;126:696-702 (risk also increased in FF infant for otitis)

Risks for the premature baby (Risques pour le bébé prématuré)

- P-1: Lucas A, Cole TJ. Breastmilk and neonatal necrotizing enterocolitis. *Lancet* 1990;336:1519-23
- P-2: El-Mohandes AE, Picard MB, Simmens SJ, Keiser JF. Use of human milk in the intensive care nursery decreases the incidence of nosocomial sepsis. *J Perinatol* 1997;17:130-4
- P-3: Daniels L, Gibson R, Simmer K. Selenium status of preterm infants: the effect of postnatal age and method of feeding. *Acta Pædiatr* 1997;86:281-8 (M:23)
- P-4: Uauy RD, Birch DG, Birch EE, Tyson JE, Hoffman DR. Effect of dietary omega-3 fatty acids on retinal function of very low birth weight neonates. *Pediatr Res* 1990;28:485-92 (M:18)
- P-5: Lucas A, Morley R, Cole TJ, Lister G, Leeson-Payne C. Breastmilk and subsequent intelligence quotient in children born preterm. *Lancet* 1992;339:261-4 (CD: 3)
- P-6: Bishop NJ, Dahlenburg SL, Fewtrell MS, Morley R, Lucas A. Early diet of preterm infants and bone mineralization at age five years. *Acta Paediatr* 1996;85:230-6
- P-7: Carlson SE, Rhodes PG, Ferguson MG. Docosahexaenoic acid status of preterm infants at birth and following feeding with human milk or formula. *Am J Clin Nutr* 1986;44:798-804
- P-8: Foreman-van Drongelen MMHP, van Houwelingen AC, Kester ADM, Hasaart THM, Blanco CE, Hornstra G. Long-chain polyunsaturated fatty acids in preterm infants: status at birth and its influence on postnatal levels. *J Pediatr* 1997;126:611-8
- P-9: Bier JB, Ferguson AE, Morales Y, Liebling JA, Oh W, Vohr BR. Breastfeeding infants who were extremely low birth weight. *Pediatrics* 1997;100:p e3

Childhood Cancer (Cancers infantiles)

- CC-1: Schwartzbaum JA, George SL, Pratt CB, Davis B. An exploratory study of environmental and medical factors potentially related to childhood cancer. *Med pediatri Oncol* 1991;19:115-21
- CC-2: Davis MK, Savitz DA, Graubard BI. Infant feeding and childhood cancer. *Lancet* 1988;2:365-8
- CC-3: Freudenheim JL, Marshall JR, Graham S, Laughlin R, Vena JE, Bandera E, et al. Exposure to breastmilk in infancy and the risk of breast cancer. *Epidemiology* 1994;5:324-31

Gastrointestinal Disease and Infections (Pathologies gastro-intestinales)

- GI-1: Koletzko S, Sherman P, Corey M, Griffiths A, Smith C. Role of infant feeding practices in the development of Crohn's disease in childhood. *Br Med J* 1989;298:1617-8
- GI-2: Greco L, Auricchio S, Mayer M, Grimaldi M. Case control study on nutritional risk factors in celiac disease. *J Pediatr Gastroenterol Nutr* 1988;7:395-8
- GI-3: Duffy LC, Byers TE, Riepenhoff-Talty M, La Scolea L, Zielezny M, Ogra PL. The effects of infant feeding on rotavirus-induced gastroenteritis. A prospective study. *Am J Pub Health* 1986;76:259-63
- GI-4: Hanson LA, Lindquist B, Hofvander Y, Zetterstrom R. Breastfeeding as a protection against gastroenteritis and other infections. *Acta Pediatr Scand* 1985;74:641-2
- GI-5: Ruiz-Palacios GM, Calva JJ, Pickering LK, Lopez-Vidal Y, Volkow P, Pezzarossi H, et al. Protection of breastfed infants against *Campylobacter* diarrhea by antibodies in human milk. *J Pediatr* 1990;116:707-13
- GI-6: Cruz JR, Gil L, Cano F, Caceres P, Pareja G. Breastmilk anti-*Escherichia coli* heat labile toxin IgA antibodies protect against toxin-induced infantile diarrhea. *Acta Pediatr Scand* 1988;77:658-62
- GI-7: Gillin FD, Reiner DS, Wang C-S. Human milk kills parasitic intestinal protozoa. *Science* 1983;221:1290-2
- GI-8: France GL, Marmer DJ, Steele RW. Breastfeeding and *Salmonella* infection. *Am J Dis Child* 1980;134:147-52
- GI-9: Haffejee IE. Cow's milk-based formula, human milk and soya feeds in acute infantile diarrhea: A therapeutic trial. *J Pediatr Gastroenterol Nutr* 1990;10:193-8
- GI-10: Lerman Y, Slepun R, Cohen D. Epidemiology of acute diarrheal diseases in children in a high standard of living rural settlement in Israel. *Pediatr Infect Dis J*. 1994;13:116-22
- GI-11: Howie PW, Forsyth JS, Ogston SA, Clark A, Du V Florey C. Protective effect of breastfeeding against infection. *Br Med J* 1990;300:11-6
- GI-12: Duffy LC, Riepenhoff-Talty M, Byers TE, La Scolea LJ, Zielezny MA, Dryja DM et al. Modulation of rotavirus enteritis during breastfeeding. *Am J Dis Child* 1986;140:1164-8
- GI-13: Haddock RL, Cousens SN, Guzman CC. Infant diet and salmonellosis. *Am J Pub Health* 1991;81:997-1000
- GI-14: Scariati PD, Grummer-Strawn LM, Fein SB. A longitudinal analysis of infant morbidity and the extent of breastfeeding in the United States. *Pediatrics* 1997;99, June 1997;e5 (also for otitis media)

Urinary Tract Infection (Infections urinaires)

- UT-1: Pisacane A, Graziano L, Mazzarella G, Scarpellino B, Zona G. Breastfeeding and urinary tract infection. *J Pediatr* 1992;120:87-9

Malocclusion (Malocclusion)

- MA-1: Labbock MH, Hendershot GE. Does breastfeeding protect against malocclusion? An analysis of the 1981 child health supplement to the national health interview survey. *Am J Prev Med* 1987;3:227-32

Formula as a heavy metal cocktail (Le lait industriel est un cocktail de métaux lourds)

- HM-1: Koo WWK, Kaplan LA, Krug-Wispe SK. Aluminum contamination of infant formulas. *J Parenteral Enteral Nutrition* 1988;12:170-3

HM-2: Davidsson L, Cederblad Å, Lönnerdal B, Sandström B. Manganese absorption from human milk, cow's milk and infant formulas in humans. *Am J Dis Child* 1989;143:823-7
HM-3: Dabeka RW, McKenzie AD. Lead and cadmium levels in commercial infant foods and dietary intake by infants 0-1 year old. *Food Additives and Contaminants* 1988;5:333-42

Other Contamination due to bottle feeding (Autres polluants du lait industriel)

C-1: Mytjens HL, Roelofs-Willemse H, Jaspar GHJ. Quality of powdered substitutes for breastmilk with regard to members of the family Enterobacteriaceæ. *J Clin Microbiol* 1988;26:743-6
C-2: Biering G, Karlsson S, Clark NC, Jonsdottir KE, Ludvigsson P, Steingrímsson O. Three cases of neonatal meningitis caused by *Enterobacter sakazakii* in powdered milk. *J Clin Microbiol* 1989;27:2054-6
C-3: Westin JB. Ingestion of carcinogenic N-nitrosamines by infants and children. *Arch Environmental Health* 1990;45:359-63

Allergy (Allergie)

A-1: Lucas A, Brooke OG, Morley R, Cole TJ, Bamford MF. Early diet of preterm infants and development of allergic or atopic disease: randomized prospective study. *Br Med J* 1990;300:837-40
A-2: Kajosaari M, Saarinen UM. Prophylaxis of atopic disease by six months' total solid food elimination. *Acta Paediatr Scand* 1983;72:411-14
A-3: Ellis MH, Short JA, Heiner DC. Anaphylaxis after ingestion of a recently introduced hydrolyzed whey protein formula. *J Pediatr* 1991;118:74-7
A-4: Saarinen UM, Kajosaari M. Breastfeeding as prophylaxis against atopic disease: prospective follow-up study until 17 years old. *Lancet* 1995;346:1065-69
A-5: Saylor JD, Bahna SL. Anaphylaxis to casein hydrolysate formula. *J Pediatr* 1991;118:71-4
A-6: Marini A, Agosti M, Motta G, Mosca F. Effects of a dietary and environmental prevention programme on the incidence of allergic symptoms in high atopic risk infants: three years' followup. *Acta Paediatr* 1996;Suppl 414 vol 85:1-19

Miscellaneous (Divers)

M-1: McJunkin JE, Bithoney WG, McCormick MC. Errors in formula concentration in an outpatient population. *J Pediatr* 1987;111:848-50
M-2: Specker BL, Tsang RC, Ho ML, Landi TM, Gratton TL. Low serum calcium and high parathyroid hormone levels in neonates fed "humanized" cow's milk-based formula. *Am J Dis Child* 1991;145:941-5
M2a: Jochum F, Fuchs A, Menzel H, Lombeck I. Selenium in German infants fed breastmilk or different formulas. *Acta Paediatr* 1995;84:859-62
M-3: Kramer MS. Do breastfeeding and delayed introduction of solid foods protect against subsequent obesity? *J Pediatr* 1981;98:883-7
M-4: Dick G. The etiology of multiple sclerosis. *Proc Roy Soc Med.* 1976;69:611-5
M-4b: Pisacane A, Impagliazzo N, Russo M, Valiani R, Mandarini A, Florio C, Vivo P. Breastfeeding and multiple sclerosis. *Br Med J* 1994;308:1411-2
M-5: Birch E, Birch D, Hoffman D, Hale L, Everett M, Uauy R. Breastfeeding and optimal visual development. *J Pediatr Ophthalmol Strabismus* 1993;30:33-8
M-6: Makrides M, Simmer K, Googin M, Gibson RA. Erythrocyte docosahexaenoic acid correlates with the visual response of healthy, term infants. *Pediatr Res* 1993;34:425-7
M-7: Sullivan SA, Birch LL. Infant dietary experience and acceptance of solid foods. *Pediatrics* 1994;93:271-77
M-8: Cochi SL, Fleming DW, Hightower AW, Limpakarnjanarat K, Facklam RR, Smith JD, et al. Primary invasive *Haemophilus influenzae* type b disease: A population-based assessment of risk factors. *J Pediatr* 1986;108:887-96
M-9: Arnold C, Makintube S, Istre GR. Day Care Attendance and other risk factors for invasive *Haemophilus influenzae* type b disease. *Am J Epidemiol* 1993;138:333-40
M-9a: Takala AK, Eskola J, Palmgren J, Rönnberg P-R, Kela E, Rekola P, Mäkelä PH. Risk factors of invasive *Haemophilus influenzae* type b disease among children of Finland. *J Pediatr* 1989;115:694-701

- M-10: Michaelsen KM, Johansen JS, Samuelson G, Price PA, Christiansen C, Skakkebæk NE. Serum bone Gla protein (BGP, Osteocalcin) in infants: Values positively correlated with human milk intake. *Mechanisms Regulating Lactation and Infant Nutrient Utilization*. (Picciano MF, Lönnerdal B, editors). Volume 15 of *Contemporary Issues in Clinical Nutrition*, pages 419-23.
- M-11: Jones EG, Matheny RJ. Relationship between infant feeding and exclusion rate from child care because of illness. *J Am Dietetic Assoc* 1993;93:809-11
- M-12: MacFarlane PI, Miller V. Human milk in the management of protracted diarrhoea of infancy. *Arch Dis Child* 1984;59, 260-65
- M-13: Osborn GR. Stages in development of coronary disease observed from 1,500 young subjects. Relationship of hypotension and infant feeding to aetiology. Watson Smith Lecture, delivered to the Royal College of Physicians of London, January 11, 1965.
- M13a: Bergström E, Hernell O, Persson LÅ, Vessby B. Serum lipid values in adolescents are related to family history, infant feeding, and physical growth. *Atherosclerosis* 1995;117:1-13
- M-14: Keating JP, Schears GJ, Dodge PR. Oral water intoxication in infants. *Am J Dis Child* 1991;145:985-90
- M-14a: Bruce RC, Kiegan RM. Hyponatremic seizures secondary to oral water intoxication in infancy: association with commercial bottled drinking water. *Pediatrics* 1997;100; p e4
- M-15: Finberg L. Water intoxication. (editorial). *Am J Dis Child* 1991;145:981-2
- M-16: Shannon MW, Graef JW. Lead intoxication in infancy. *Pediatrics* 1992;89:87-90
- M-17: Nako Y, Fukushima N, Tomomasa T, Nagashima K. Hypervitaminosis D after prolonged feeding with a premature formula. *Pediatrics* 1993;92:862-3
- M-18: Uauy RD, Birch DG, Birch EE, Tyson JE, Hoffman DR. Effect of dietary omega-3 fatty acids on retinal function of very low birth weight neonates. *Pediatr Res* 1990;28:485-92
- M-19: Hahn-Zoric M, Fulconis F, Minoli I, Moro G, Carlsson B, Böttiger M, et al. Antibody responses to parenteral and oral vaccines are impaired by conventional and low protein formulas as compared to breastfeeding. *Acta Pædiatr Scand* 1990;79:1137-42
- M-20: Arnon SS, Damus K, Thompson B, Midura TF, Chin J. Protective role of human milk against sudden death from infant botulism. *J Pediatr* 1982;100:568-73
- M-21: Mason T, Rabinovich E, Fredrickson DD, Amoroso K, Reed AM, Stein LD, et al. Breastfeeding and the development of juvenile rheumatoid arthritis. *J Rheumatol* 1995;22:1166-70
- M-22: Hasselbalch H, Jeppesen DL, Engelmann MDM, Michaelson KF, Nielson MB. Decreased thymus size in formula-fed compared with breastfed infants. *Acta Pædiatr* 1996;85:1029-32
- M-23: Daniels L, Gibson R, Simmer K. Selenium status of preterm infants: the effect of postnatal age and method of feeding. *Acta Pædiatr* 1997;86:281-8
- M-24: Pettitt DJ, Forman MR, Hanson RL, Knowler WC, Bennett PH. Breastfeeding and incidence of non-insulin-dependent diabetes mellitus in Pima Indians. *Lancet* 1997;350:166-8
- M-25: Routi T, Rönnemaa T, Lapinleimu H, Salo P, Viikari J, Leino A, et al. Effect of weaning on serum lipoprotein (a) concentration: the STRIP baby study. *Pediatric Research* 1995;38:522-27
- M-26: Bergströme E, Hernell O, Persson LÅ, Vessby B. Serum lipid values in adolescents are related to family history, infant feeding and physical growth. *Atherosclerosis* 1995;117:1-13

Breastmilk as "antimicrobial" (Le lait humain est un " antimicrobien ")

- AM-1: Yoshioka H, Ken-ichi I, Fujita K. Development and differences of intestinal flora in the neonatal period in breastfed and bottle fed infants. *Pediatrics* 1983;72:317-21
- AM-2: Hernell O, Ward H, Bläckberg L, Pereira MEA. Killing of *Giardia lamblia* by human milk lipases: An effect mediated by lipolysis of milk lipids. *J Infectious Diseases* 1986;153:715-20
- AM-3: Andersson B, Porras O, Hanson LA, Lagergård T, Svanborg-Edén C. Inhibition of attachment of *Streptococcus pneumoniae* and *Haemophilus influenzae* by human milk and receptor oligosaccharides. *J Infectious Diseases* 1986;153:232-7
- AM-4: Bell LM, Clark HF, Offit PA, Slight PH, Arbeter AM, Plotkin SA. Rotavirus serotype-specific neutralizing activity in human milk. *Am J Dis Child* 1988;142:275-8
- AM-5: Schroten H, Lethen A, Hanisch FG, Plogmann R, Hacker J, Nobis-Bosch R et al. Inhibition of adhesion of S-Fimbriated *Escherichia coli* to epithelial cells by meconium and feces of breastfed and formula fed newborns: mucins are the major inhibitory component. *J Pediatr Gastroentero Nutr* 1992;15:150-8

AM-6: Walterspiel JN, Morrow AL, Guerrero ML, Ruiz-Palacios GM, Pickering LK. Secretory anti-Giardia lamblia antibodies in human milk: protective effect against diarrhea. Pediatrics 1994;93:28-31
AM-7: Torres O, Cruz JR. Protection against Campylobacter diarrhea: role of milk IgA antibodies against bacterial surface antigens. Acta Paediatr Scand 1993;82:835-8
AM-8: Pickering LK, Morrow AL, Herrera I, O’Ryan M, Estes MK, Suilliams SE, et al. Effect of maternal rotavirus immunization on milk and serum antibody titers. J Inf Dis 1995;172:723-8
AM-9: Grover M, Giouzeppos O, Shnagl RD, May JT. Effect of human milk protaglandins and lactoferrin on respiratory syncytial virus and rotavirus. Acta Pædiatr 1997;86:315-6

Risks to the Mother (Risques pour la mère)

Ovarian Cancer (Cancer ovarien)

MO-1: Hartge P, Schiffman MH, Hoover R, McGowan L, Leshner L, Norris HJ. A case control study of epithelial ovarian cancer. Am J Obstet Gynecol 1989;161:10-6
MO-2: Gwinn ML, Lee NC, Rhodes PH, Layde PM, Rubin GL. Pregnancy, breastfeeding and oral contraceptives and the risk of epithelial ovarian cancer. J Clin Epidemiol 1990;43:559-68
MO-3: Rosenblatt KA, Thomas DB, and the WHO collaborative study of neoplasia and steroid contraceptives. Lactation and the risk of epithelial ovarian cancer. International J Epidemiol 1993;22:192-7

Osteoporosis (Ostéoporose)

MO-4: Aloia JF, Cohn SH, Vaswani A, Yeh JK, Yuen K, Ellis K. Risks factors for postmenopausal osteoporosis. Am J Med 1985;78:95-100
MO-5: Melton LJ, Bryant SC, Wahner HW, O’Fallon WM, Malkasian GD, Judd HL, Riggs BL. Influence of breastfeeding and other reproductive factors on bone mass later in life. Osteoporosis 1993;3:76-83
MO-6: Cumming RG, Klineberg RJ. Breastfeeding and other reproductive factors and the risk of hip fractures in elderly women. International J Epidemiol 1993;22:684-91
MO-6a: Blaauw R, Albertse EC, Beneke T, Lombard CJ, Laubscher R, Hough FS. Risk factors for the development of osteoporosis in a South African population. S Afr Med J 1994;84:328-32

Endometrial Carcinoma (Cancer endométrial)

MO-7: Petterson B, Hans-Olov A, Berström R, Johansson EDB. Menstruation span-a time-limited risk factor for endometrial carcinoma. Acta Obstet Gynecol Scand 1986;65:247-55
MO-7a: Rosenblatt KA, Thomas DB, and the WHO collaborative study of neoplasia and steroid contraceptives. Prolonged Lactation and endometrial cancer. Int J Epidemiol 1995;24:499-503

Breast Cancer (Cancer du sein)

MO-8: Layde PM, Webster LA, Baughman AL, Wingo PA, Rubin GL, Ory HW and the cancer and steroid hormone study group. The independent associations of parity, age at first full term pregnancy, and duration of breastfeeding with the risk of breast cancer. J Clin Epidemiol 1989;42:963-73
MO-9: Ing R, Ho JHC, Petrakis NL. Unilateral breastfeeding and breast cancer. Lancet July 16, 1997;124-27
MO-10: McTiernan A, Thomas DB. Evidence for a protective effect of lactation on risk of breast cancer in young women. Am J Epidemiol 1986;124:353-74
MO-11: Yuan J-M, Yu MC, Ross RK, Gao Y-T, Henderson BE. Risk factors for breast cancer in Chinese women in Shanghai. Cancer Res 1988;58:99-104
MO-12: Yoo K-Y, Tajima K, Kuroishi T, Hirose K, Yoshida M, Miura S, Murai H. Independent protective effect of lactation against breast cancer: a case-control study in Japan. Am J Epidemiol 1992;135:726-33
MO-13: Reuter KL, Baker SP, Krolkowski FJ. Risk factors for breast cancer in women undergoing mammography. Am J Radiol 1992;158:273-8
MO-14: United Kingdom National Case-Control Study Group. Breastfeeding and risk of breast cancer in young women. Br Med J 1993;307:17-20

- MO-15: Newcomb PA, Storer BE, Longnecker MP, Mittendorf R, Greenberg ER, Clapp RW, et al. Lactation and a reduced risk of premenopausal breast cancer. *N Eng J Med* 1994;330:81-7
- MO-16: Tao S-C, Yu MC, Ross RK, Xiu K-W. Risk factors for breast cancer in Chinese women of Beijing. *Int J Cancer* 1988;42:495-98
- MO-17: Siskind V, Schofield F, Rice D, Bain C. Breast cancer and breastfeeding: results from an Australian case-control study. *Am J Epidemiol* 1989;130:229-36
- MO-18: Romieu I, Hernández-Avila M, Lazcano E, Lopez L, Romero-Jaime R. Breast cancer and lactation history in Mexican women. *Am J Epidemiol* 1996;143:543-52

Weight loss (Facilite la perte de poids)

- MO-19: Dewey KG, Heinig MJ, Nommsen LA. Maternal weight loss patterns during prolonged lactation. *Am J Clin Nutr* 1993;58:162-6

Risks to Society (Risques pour la société)

- S-1: Thapa S, Short RV, Potts M. Breastfeeding, birth spacing, and their effects on child survival. *Nature* 1988;335:679-82
- S-2: Short . Breastfeeding (contraceptive effect). *Scientific American* 1984;250:35-41
- S-3: Bitoun P. The economic value of breastfeeding in France. *Les Dossiers de l'Obstetrique*. 1994;#216 (available on request)
- S-4: Radford A. The ecological impact of bottle feeding. (available on request)
- S-5: Gross BA. Is the lactational amenorrhea method a part of natural family planning? *Biology and policy*. *Am J Obstet Gynecol* 1991;165:2014-9
- S-6: Kennedy KI, River R, McNeilly AS. Consensus statement on the use of breastfeeding as a family planning method. *Contraception* 1989;39:477-96

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Revised: January 16, 1998