

# Subject Index

- Anorexia nervosa (AN)
  - growth and final height in adolescent females 86, 87, 94, 95
  - growth hormone levels 85
- Autism
  - early growth patterns in children 81, 82
  - iron status 84, 85
  - nutrient intake evaluation 83, 84
  - nutrition, physical activity, and bone mineral density 82, 83
- Beverages, sugar content
  - body weight studies
    - adolescents 5, 6
    - children 4, 5
  - cardiometabolic risk factors in adolescents 7, 8
  - cognition effects in children 39
  - salt intake correlation 8, 9
- Bioelectrical impedance analysis (BIA),
  - body water in children with cerebral palsy 76, 77
- Body mass index, *see* Obesity
- Bone mineral density (BMD)
  - autistic children 82, 83
  - catch-up growth after late puberty in men 90, 91
- Breastfeeding
  - cognition studies
    - propensity score matching analysis 36, 37
    - scheduling versus on-demand feeding effects 37, 38
  - colic, probiotic studies in breastfed infants 26, 27
  - complementary feeding, *see* Complementary feeding
  - duration influence on taste acceptance over first year of life 33, 34
  - preterm infant studies
    - extremely preterm infants 24, 25
    - pasteurization effects on late-onset sepsis 25, 26
- Carbohydrates
  - beverages, *see* Beverages
  - cognition effects of refined carbohydrate intake in children 38, 39
  - diet modification in weight management in children 20–22
- Cardiovascular risk in Young Finns Study 17, 18
- Catch-up growth
  - bone mineral density after late puberty in men 90, 91
  - early childhood weight and height in developing countries 93
  - fetal growth restriction following hypertensive disorders of pregnancy 97
  - ketogenic diet weaning in pediatric epilepsy 95, 96
  - patterns 89, 90
  - preterm infant negative effects of rapid weight gain 98
  - puberty triggering 92
- Cerebral palsy (CP)
  - bioelectrical impedance analysis of body water in children 76, 77
  - energy requirements in preschool children 74, 75
  - food record for energy intake assessment 75, 76
  - fracture risk 78

- gastrostomy
  - timing 78, 79
  - variation across Europe 79–81
- micronutrient and antioxidant status in severe disease 77
- Choline
  - maternal status and cognition outcomes 48, 49
  - supplementation in pregnancy and cognition outcomes at 7 years of age 45, 46
- Cobalamin, deficiency effects in children 47, 48
- Cognition
  - beverage sugar effects in children 39
  - breastfeeding studies
    - propensity score matching analysis 36, 37
    - scheduling versus on-demand feeding effects 37, 38
  - choline supplementation in pregnancy and outcomes at 7 years of age 45, 46
  - folic acid
    - deficiency effects 47, 48
    - maternal status and outcomes 48, 49
    - serum concentration correlations in children 47
  - iodine insufficiency in pregnancy 51–53
  - iron deficiency anemia effects in infancy 49, 50
  - long-chain polyunsaturated fatty acid studies
    - high-dose effects on neurodevelopment and language 43
    - infant supplementation effects on childhood cognition 41–43
    - rural African infant studies 43–45
  - lunch effects on short-term function in children 40
  - phosphatidylcholine supplementation in pregnancy and outcomes 46, 47
  - refined carbohydrate intake effects in children 38, 39
  - school feeding program effects 40, 41
  - vitamin A supplementation studies in pregnancy 50
- Colic, probiotic studies in breastfed infants 26, 27
- Complementary feeding
  - food type and obesity risk 28
  - timing
    - childhood obesity 27, 28
    - iron status effects 32, 33
- weight change before and after introduction of solids 29, 30
- zinc requirements in older breastfed infants 30, 31
- Crohn's disease
  - exclusive enteral nutrition studies 58, 59
  - growth hormone resistance 55, 56
  - growth impact of contemporary therapy 62, 63
  - gut microbe antibodies 56
  - insulin-like growth factor-1 therapy 57, 58
  - tumor necrosis factor- $\alpha$  antagonism studies
    - long-term clinical outcomes 50, 61
    - puberty delay in dextran sodium sulfate colitis 59, 60
- Cystic fibrosis (CF)
  - gastrostomy and nutritional outcomes 70, 71
  - growth hormone therapy 71–74
  - nutritional status
    - early childhood and outcomes 63, 64
    - genetic modifiers 68, 69
    - lung function and body mass index effects 66, 67
  - oral calorie supplements 69, 70
  - pubertal growth 64, 65
  - stunting and mortality 67, 68
- Diabetes
  - optimal macronutrient composition for pre-diabetic adolescents 15, 16
  - vitamin D insufficiency 18, 19
- Dietary pattern analysis, *see* Obesity
- DNA methylation, *see* Epigenetics
- Epigenetics, periconception micronutrient supplementation effects on fetal DNA methylation 2, 3
- Epilepsy, catch-up growth after ketogenic diet weaning 95, 96
- Exclusive enteral nutrition (EEN), Crohn's disease studies 58, 59
- Fatty acids, long-chain polyunsaturated fatty acid studies of cognition
  - high-dose effects on neurodevelopment and language 43
  - infant supplementation effects on childhood cognition 41–43
  - rural African infant studies 43–45

- Fetal growth restriction (FGR), catch-up growth following hypertensive disorders of pregnancy 97
- Fish oil, *see* Fatty acids
- Folic acid, cognition studies in children  
 deficiency effects 47, 48  
 maternal status and outcomes 48, 49  
 serum concentration correlations 47
- Fracture, risk in cerebral palsy 78
- FTO, variants and body mass index 10, 11
- Gastrostomy  
 cerebral palsy management variation across Europe 79–81  
 cystic fibrosis and nutritional outcomes 70, 71  
 timing in neurodisability 78, 79
- Growth hormone (GH)  
 resistance in Crohn's disease 55, 56  
 therapy for cystic fibrosis 71–74
- Hypertension, fetal growth restriction and catch-up growth following hypertensive disorders of pregnancy 97
- Inflammatory bowel disease, *see* Crohn's disease
- Insulin-like growth factor-1 (IGF-1), therapy for Crohn's disease 57, 58
- Iodine, insufficiency in pregnancy and cognition 51–53
- Iron  
 autistic children status 84, 85  
 complementary feeding timing effects on status 32, 33  
 iron deficiency anemia effects in infancy on later cognition 49, 50
- Leptin, birth weight and sex effects on levels in adolescents 3, 4
- MC4, variants and body mass index 10, 11
- Meal frequency, *see* Obesity
- Metabolic syndrome  
 childhood nutrition in adult risk prediction 17, 18  
 probiotic studies in adolescents 19, 20  
 vitamin D insufficiency 18, 19
- Milk  
 breastfeeding, *see* Breastfeeding  
 low-fat milk studies of obesity in preschoolers 9, 10
- Necrotizing enterocolitis (NEC),  
 breastfeeding studies in extremely preterm infants 24, 25
- Obesity, *see also* Leptin  
 beverage sugar content studies  
 body weight  
 adolescents 5, 6  
 children 4, 5  
 cardiometabolic risk factors in adolescents 7, 8  
 salt intake correlation 8, 9  
 breakfast protein content studies in late-adolescent girls 14, 15  
 carbohydrate modification in weight management in children 20–22  
 complementary feeding  
 food type and obesity risk 28  
 timing studies 27, 28  
 dietary pattern analysis in children and adolescents 13  
 low-fat milk studies in preschoolers 9, 10  
 meal frequency and body mass index  
 genetic variants in adolescents 10, 11  
 meta-analysis of studies in children and adolescents 11, 12  
 probiotic studies in adolescents 19, 20  
 vitamin D insufficiency 18, 19
- Phosphatidylcholine, supplementation in pregnancy and cognition outcomes 46, 47
- Preterm infant  
 breastfeeding studies  
 extremely preterm infants 24, 25  
 pasteurization effects on late-onset sepsis 25, 26  
 colic, probiotic studies in breastfed infants 26, 27
- Preterm infant, negative effects of rapid weight gain 98
- Probiotics  
 colic studies in breastfed infants 26, 27  
 inflammation and metabolic syndrome studies in obese adolescents 19, 20
- Protein, breakfast protein content studies in obese late-adolescent girls 14, 15
- RESIST trial 15, 16
- Salt intake, sugar beverage correlation 8, 9

- School feeding program, cognition outcomes 40, 41
- Stunting, mortality correlation in cystic fibrosis 67, 68
- Tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ), antagonism studies in Crohn's disease long-term clinical outcomes 50, 61 puberty delay in dextran sodium sulfate colitis 59, 60
- Vitamin A, pregnancy supplementation effects on cognition 50
- Vitamin D, insufficiency in obesity and diabetes 18, 19
- Zinc, complementary feeding and requirements in older breastfed infants 30, 31

