

## Index of Subjects

- Absorption and excretion of calcium and phosphorus in various sections of gastro-intestinal tract studied with radioactive calcium and phosphorus, pig (Moore & Tyler) **81**
- Activit(ies), various, energy expenditure on, variations in and between individuals, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) **286**
- Adrenal glands, vitamin C in, and cortisone administration, guinea-pig (Harris, Constable, Hughes & Loewi) **310**
- Amino-acid(s) *see also under* Arginine, Histidine, Leucine, Threonine *and* Tryptophan
- Amino-acid(s), deamination by rumen micro-organisms in vivo and in vitro, sheep fed on hay with and without casein or dried-grass supplement (Lewis) **215**
- Amino-acid(s), essential, and all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Amino-acid(s), essential, content of various foods (Hughes) **373**
- Amino-acid(s), essential, intake, and extraction rate of flour, and adult nitrogen requirement, German orphanage child on vegetable diet (Hughes) **373**
- Amino-acid(s), essential, intake of, German orphanage child on vegetable diet and prewar British child compared (Hughes) **373**
- Amino-acid(s), individual and mixed, in vitro deamination by sheep rumen micro-organisms effect of concentration of substrate and pH (Lewis) **215**
- Amino-acid, limiting, in protein, rapid method for estimating, young rat (Miller & Bender) **382**
- Amino-acid(s) in rumen contents before and after feeding, sheep fed on hay with and without casein or dried-grass supplement (Lewis) **215**
- Ammonia produced by in vitro fermentation of amino-acids by rumen micro-organisms, sheep (Lewis) **215**
- Aneurin *see under* Thiamine
- Animal protein, daily intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Antibiotic(s) *see also under* Aureomycin, Chloramphenicol, Oxytetracycline, Penicillin *and* Streptomycin
- Antibiotic(s), dietary, effect on gut, chick (Coates, Davies & Kon) **110**, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Antibiotic dietary supplements, various, effect on biotin, folic-acid and nicotinic-acid metabolism compared, rat (Halevy, Diamant & Guggenheim) **57**
- Antibiotic(s) and thiamine balance, thiamine-deficient calf (Blaxter & Rook) **121**
- Antibiotic(s) with and without endocrine stimulants, and growth, efficiency of food conversion, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**, (Lucas & Calder) **267**
- Arginine, alone or with threonine and histidine, supplement to hydrolysed-casein diet, and growth, chick (Fisher, Scott & Johnson) **340**
- Armed forces, British *see under* Cadet
- Arsanilic-acid, penicillin or chloramphenicol dietary supplement compared, effect on body-weight and gut weight, chick (Coates, Davies & Kon) **110**
- Ascorbic acid *see under* Vitamin C
- Ash content of food mixtures used at weaning, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Ash in faeces on balanced and on excess diet, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Aureomycin *see also under* Antibiotic(s)
- Aureomycin, dietary, and caecum weight, pH of caecal contents, differential leucocyte count, caecal micro-organisms, and aureomycin poisoning, guinea-pig (Roine, Ettala, Raitio & Vartiavaara) **181**
- Aureomycin dietary supplement, and body-weight, liver, kidney and spleen weight, gut weight, length, composition and histological picture, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Aureomycin dietary supplement, effect on nicotinic-acid metabolism, rat (Halevy, Diamant & Guggenheim) **57**
- Aureomycin dietary supplement, and growth, incidence of scouring, rectal temperature, mortality rate, colostrum-deprived newborn calf (Roy, Shillam, Palmer & Ingram) **94**
- Aureomycin dietary supplement with and without succinylsulphathiazole, effect on biotin and folic-acid metabolism, rat (Halevy, Diamant & Guggenheim) **57**
- Aureomycin dietary supplement with and without thyroxine, stilboestrol or both, and growth, efficiency of food conversion, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**
- Aureomycin dietary supplement with and without thyroxine and stilboestrol, and growth, efficiency of food conversion, carcass quality, pig (Lucas & Calder) **267**
- Aureomycin, high-copper mineral mixture or both or copper sulphate dietary supplement compared, effect on food consumption, growth and efficiency of food conversion, pig (Barber, Braude & Mitchell) **378**

- Aureomycin by mouth and by subcutaneous injection compared, adverse effect on body-weight, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Aureomycin poisoning, clinical picture in, suggested mechanism of production and cure with penicillin or chloramphenicol, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Bacteria *see under* Listeria and Micro-organism(s)
- Bacterium coli* serological types and incidence of scouring, mortality rate, in relation to length of previous vacancy and use of calthouse, newborn calf (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Balance *see also under* Metabolism
- Balance, energy, nitrogen, water, sodium and potassium, in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Balance, thiamine, with and without antibiotics, thiamine-deficient calf (Blaxter & Rook) **121**
- Bantu infant, South African urban, weaning diet and malnutrition (Walker, Fletcher, Strydom & Andersson) **38**
- Bantu woman, methionine content of breast milk, compared with South African European, American, Indian and West African woman (Andersson & Walker) **197**
- Basal metabolism, calculated, and calorie intake on poor vegetarian diet, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Basal metabolism, measured and calculated from various formulas compared, long-term individual dietary survey, woman (Chappell) **323**
- Beryllium carbonate, effect on calcium and phosphorus metabolism, pig (Moore & Tyler) **389**
- Biological value *see under* Net utilization and Nutritive value
- Biosynthesis *see under* Synthesis
- Biotin in caecum contents, liver and urine, effects of dietary supplement of various antibiotics with and without succinylsulphathiazole compared, rat (Halevy, Diamant & Guggenheim) **57**
- Blood *see also under* Haematocrit, Haemoglobin, Leucocyte(s) and Plasma
- Blood, appearance of vitamin A alcohol and ester in, after intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution or after stomach-tube meal of carotene in aqueous Tween dispersion or in oily solution, vitamin A-deficient rat (Kon, McGillivray & Thompson) **244**
- Blood, carotene in, after intravenous injection of carotene in aqueous Tween dispersion, calf, rabbit and rat compared (Kon, McGillivray & Thompson) **244**
- Blood, carotene and vitamin A in, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween or after oral administration of carotene in aqueous Tween dispersion or in oily solution, rabbit (Kon, McGillivray & Thompson) **244**
- Blood, carotene and vitamin A alcohol and ester in, after oral administration or intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Blood lactic and pyruvic acids, muscular activity, tetany, and magnesium deficiency, calf (Blaxter & Rook) **121**
- Blood magnesium, heat production, and magnesium deficiency, calf (Blaxter & Rook) **121**
- Blood picture, effect of groundnut-milk curd supplement to poor vegetarian diet, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Blood picture, and graded pyridoxin supplements, pyridoxin-deficient rat (Batchen, Cheesman, Copping & Trusler) **49**
- Blood, vitamin A in, effect of repeated sampling after intravenous injection of aqueous solution of Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Blood, vitamin A alcohol and ester in, after oral administration or intravenous injection of vitamin A in aqueous Tween dispersion or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Body-weight *see also under* Growth
- Body-weight, adverse effects of aureomycin by mouth and by subcutaneous injection compared, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Body-weight and body composition, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Body-weight and calorie intake, British boy and Uganda boarding-school boy compared (Schwartz & Dean) **230**
- Body-weight, energy balance, faeces composition, and overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Body-weight, effect of groundnut-milk curd supplement to poor vegetarian diet, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Body-weight, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Body-weight and gut weight, effects of penicillin, arsenic acid or chloramphenicol dietary supplement compared, chick (Coates, Davies & Kon) **110**
- Body-weight and gut weight, effects of penicillin or raw liver or penicillin and raw liver dietary supplement compared, chick (Coates, Davies & Kon) **110**
- Body-weight and gut weight, lack of effect of penicillin dietary supplement, chick in isolation unit (Coates, Davies & Kon) **110**
- Body-weight gain in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Body-weight, gut weight and length, and penicillin dietary supplement, chick (Coates, Davies & Kon) **110**

- Bone formation, and dietary cod-liver oil, hake-liver oil, vitamin E, protein, vitamin E-deficient rat (Irving & Budtz-Olsen) **301**
- Bone, interstitial accretion of calcium, autoradiographic studies, growing rat (Tomlin, Henry & Kon) **144**
- Boy *see also under* Child and Infant
- Boy, Uganda boarding-school, and British boy compared, calorie intake from school food and total calorie intake; calories derived from protein, fat, carbohydrate; body-weight and calorie intake (Schwartz & Dean) **230**
- Boy, Uganda boarding-school, intake of animal protein, total protein, fat, carbohydrate and calories from school food and from extras (Schwartz & Dean) **230**
- Breed and dental depigmentation, vitamin A- or vitamin E-deficient rat (Moore & Mitchell) **174**
- Breed, and iron in tooth enamel, rat (Moore & Mitchell) **174**
- Breeding performance, effect of free choice of diet from purified food constituents, rat (Tribe) **103**
- British armed forces cadet, food and energy surveys, 1952 and 1953 compared (Edholm, Fletcher, Widdowson & McCance) **286**
- British armed forces cadet, individual food intake, energy and time expenditure on and energy cost of various activities, variations in and between individuals; relation between one day's energy expenditure and food intake 2 days later (Edholm, Fletcher, Widdowson & McCance) **286**
- British prewar child and German orphanage child on vegetable diet compared, intake of various protein sources and essential amino-acids (Hughes) **373**
- Cadet, British armed forces, food and energy surveys, 1952 and 1953 compared (Edholm, Fletcher, Widdowson & McCance) **286**
- Cadet, British armed forces, individual food intake, energy and time expenditure on and energy cost of various activities, variations in and between individuals; relation between one day's energy expenditure and food intake 2 days later (Edholm, Fletcher, Widdowson & McCance) **286**
- Caecum *see also under* Gut and Intestine
- Caecum contents, biotin and folic acid in, effects of dietary supplement of various antibiotics with and without succinylsulphathiazole compared, rat (Halevy, Diamant & Guggenheim) **57**
- Caecum contents, citrovorum factor in, effects of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Caecum weight, pH of contents, micro-organisms, and dietary aureomycin and aureomycin poisoning, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Calcium absorption and excretion in various sections of gastro-intestinal tract, effect of dietary beryllium carbonate, pig (Moore & Tyler) **389**
- Calcium absorption and excretion in various sections of gastro-intestinal tract studied with radioactive calcium, pig (Moore & Tyler) **81**
- Calcium in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Calcium in body, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Calcium carbonate, dietary, effect on phytate hydrolysis in large intestine, pig (Moore & Tyler) **81**
- Calcium excretion in faeces, diurnal variation, pig (Moore & Tyler) **63**
- Calcium intake from, and metabolism on, poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Calcium intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Calcium metabolism, interstitial accretion in bone and dentine, autoradiographic studies, growing rat (Tomlin, Henry & Kon) **144**
- Calcium metabolism, pig (Moore & Tyler) **63, 81, 389**
- Calcium metabolism, on poor vegetarian diet, effect of groundnut-milk curd supplement, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Calcium metabolism on poor vegetarian diet, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Calcium phosphate, dietary, effect on phytate hydrolysis in large intestine, pig (Moore & Tyler) **81**
- Calcium, plasma, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Calcium, radioactive, use in bone- and dentine-growth studies, growing rat (Tomlin, Henry & Kon) **144**
- Calcium, solubility and ratio to insoluble ash in various sections of gastro-intestinal tract, effect of dietary beryllium carbonate, pig (Moore & Tyler) **389**
- Calcium, solubility and ratio to insoluble ash in various sections of gastro-intestinal tract at various times after feeding, pig (Moore & Tyler) **63**
- Calculi *see under* Lesion(s)
- Calf, colostrum-deprived newborn, dietary aureomycin supplement, and growth, incidence of scouring, rectal temperature, mortality rate (Roy, Shillam, Palmer & Ingram) **94**
- Calf, lack of conversion into vitamin A of injected carotene (Kon, McGillivray & Thompson) **244**
- Calf, magnesium-deficient, carbon and nitrogen retention; glucose tolerance; carbohydrate and energy metabolism; urinary pyruvic-acid excretion; blood lactic and pyruvic acids, muscular activity and tetany; blood magnesium and heat production (Blaxter & Rook) **121**
- Calf, metabolic effects of magnesium and thiamine deficiencies compared (Blaxter & Rook) **121**

- Calf, newborn, incidence of scouring, mortality rate, in relation to colostrum feeding and length of previous vacancy and use of calfhous (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Calf, newborn, incidence of scouring in relation to length of previous vacancy and use of calfhous, whole-milk and 'synthetic-milk' diets compared (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Calf, rabbit and rat compared, carotene in blood after intravenous injection in aqueous Tween dispersion (Kon, McGillivray & Thompson) **244**
- Calf, thiamine-deficient, glucose tolerance; thiamine balance with and without antibiotics; thiamine synthesis in gut; metabolism of lactic and pyruvic acids; blood lactic and pyruvic acids; urinary pyruvic-acid excretion; clinical picture; post-mortem findings (Blaxter & Rook) **121**
- Calf, vitamin A-deficient, carotene and vitamin A alcohol and ester in blood after oral administration or intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution (Kon, McGillivray & Thompson) **244**
- Calf, vitamin A-deficient, carotene and vitamin A alcohol and ester in liver, lungs and kidneys after oral administration or intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween or in oily solution (Kon, McGillivray & Thompson) **244**
- Calf, vitamin A-deficient, vitamin A alcohol and ester in blood after oral administration or intravenous injection of vitamin A in aqueous Tween dispersion or in oily solution (Kon, McGillivray & Thompson) **244**
- Caliper, dial-face, table of log transformation of skinfold measurements for use with, man (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Caliper, skinfold, consistency of readings, and face area, pressure; recommendations for type giving consistent readings, man (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Caliper, skinfold, dial-face, consistency of readings made with different calipers, by different observers, at different pressures, man (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Calorie(s) *see also under Energy*
- Calorie(s) in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Calorie conversion, efficiency of, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Calorie deficiency of food mixtures used at weaning, and malnutrition, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Calorie(s) derived from carbohydrate, fat and protein, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Calorie(s) derived from carbohydrate, fat and protein, Uganda boarding-school boy (Schwartz & Dean) **230**
- Calorie intake and body-weight, British boy and Uganda boarding-school boy compared (Schwartz & Dean) **230**
- Calorie intake and choice of diet from purified food constituents, young, adult, pregnant and lactating rat (Tribe) **103**
- Calorie intake on poor vegetarian diet, and calculated basal metabolism, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Calorie intake from poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Calorie(s), intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Calorie intake from school food and from extras, Uganda boarding-school boy (Schwartz & Dean) **230**
- Carbohydrate in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Carbohydrate, calories derived from, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Carbohydrate intake from poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Carbohydrate, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Carbohydrate, intake from school food and from extras; calories derived from, Uganda boarding-school boy (Schwartz & Dean) **230**
- Carbohydrate metabolism, and magnesium deficiency, calf (Blaxter & Rook) **121**
- Carbohydrate:protein ratio of diet, and hypoglycin-A acute toxicity, rat (Feng & Kean) **368**
- Carbon dioxide produced by in vitro fermentation of amino-acids by rumen micro-organisms, sheep (Lewis) **215**
- Carcass, carotene and vitamin A in, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Carcass quality, and dietary supplement of aureomycin or penicillin with and without thyroxine and stilboestrol, pig (Lucas & Calder) **267**
- Carotene, appearance in blood, intestine and liver after stomach-tube meal of carotene in aqueous Tween dispersion or in oily solution, vitamin A-deficient rat (Kon, McGillivray & Thompson) **244**
- Carotene in blood, carcass, heart, lungs, kidneys and liver after intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution, rabbit, vitamin A-deficient rat (Kon, McGillivray & Thompson) **244**

- Carotene in blood after intravenous injection of carotene in aqueous Tween dispersion, calf, rabbit and rat compared (Kon, McGillivray & Thompson) **244**
- Carotene in blood, liver, lungs and kidneys after oral administration or intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Carotene, injected, intestine not site of conversion into vitamin A, rabbit, rat (Kon, McGillivray & Thompson) **244**
- Carotene, injected, lack of conversion into vitamin A, calf (Kon, McGillivray & Thompson) **244**
- Carotene metabolism, calf, rabbit, rat (Kon, McGillivray & Thompson) **244**
- Casein, crude or extracted, in diet containing hydrogenated groundnut oil, lard or no fat, effect on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Ceylonese child, intake of nutrients and essential amino-acids, and growth on calorie-deficient diet with animal protein and on all-vegetable diet with and without skim-milk supplement (Baptist & de Mel) **156**
- Chick *see also under* Pullet
- Chick, body-weight and gut weight, effects of penicillin, arsanic acid or chloramphenicol dietary supplement compared (Coates, Davies & Kon) **110**
- Chick, body-weight and gut weight, effects of penicillin or raw liver or penicillin and raw liver dietary supplement compared (Coates, Davies & Kon) **110**
- Chick, body-weight, gut weight and length, and penicillin dietary supplement (Coates, Davies & Kon) **110**
- Chick, effect on growth of addition of different amounts of nicotinic acid to practical starting rations (Fisher, Scott & Johnson) **340**
- Chick, effect on growth and incidence of perosis of addition of different amounts of nicotinic acid to hydrolysed-casein diet containing various levels of tryptophan with and without histidine, leucine and threonine (Fisher, Scott & Johnson) **340**
- Chick, growth on hydrolysed-casein diet with and without supplement of threonine, histidine or arginine or of all three (Fisher, Scott & Johnson) **340**
- Chick, interrelationships of nicotinic acid and tryptophan (Fisher, Scott & Johnson) **340**
- Chick in isolation unit, body-weight and gut weight, lack of effect of penicillin dietary supplement (Coates, Davies & Kon) **110**
- Child *see also under* Boy, Girl and Infant
- Child, Ceylonese, intake of nutrients and essential amino-acids, and growth on calorie-deficient diet with animal protein and on all-vegetable diet with and without skim-milk supplement (Baptist & de Mel) **156**
- Child, German orphanage, on vegetable diet, extraction rate of flour, and intake of essential amino-acids, and adult nitrogen requirement (Hughes) **373**
- Child, German orphanage, on vegetable diet, and prewar British compared, intake of various protein sources and essential amino-acids (Hughes) **373**
- Chloramphenicol *see also under* Antibiotic(s)
- Chloramphenicol, dietary, as cure for aureomycin poisoning, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Chloramphenicol, penicillin or arsanic acid dietary supplement compared, effect on body-weight and gut weight, chick (Coates, Davies & Kon) **110**
- Chlorine in liver, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Chlortetracycline *see under* Aureomycin and Antibiotic(s)
- Choline deficiency and liver and kidney changes, and plane of nutrition, starvation, pregnant ewe (Wright) **279**
- Citrovorum factor in caecum contents, urine and liver, effects of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Cod-liver oil and hake-liver oil in vitamin E-deficient diet compared, effect on enamel organ, bone formation, liver picture, kidney lesions, uterus discoloration, rat (Irving & Budtz-Olsen) **301**
- Colon *see under* Gut and Intestine
- Colostrum-deprived newborn calf, dietary aureomycin supplement, and growth, incidence of scouring, rectal temperature, mortality rate (Roy, Shillam, Palmer & Ingram) **94**
- Colostrum feeding and length of previous vacancy and use of calthouse in relation to incidence of scouring, mortality rate, newborn calf (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Copper deficiency, production in rat for studies of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared (Mills) **398**
- Copper, herbage, in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage, compared with ionic copper, availability to copper-deficient rat (Mills) **398**
- Copper, high-, mineral mixture, aureomycin or both or copper-sulphate dietary supplement compared, effect on food consumption, growth and efficiency of food conversion, pig (Barber, Braude & Mitchell) **378**
- Copper, high-, mineral mixture dietary supplement, and growth, efficiency of food conversion, pig (Bowler, Braude, Campbell, Craddock-Turnbull, Fieldsend, Griffiths, Lucas, Mitchell, Nickalls & Taylor) **358**
- Copper, liver, used in assessment of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of herbage compared, copper-deficient rat (Mills) **398**

- Cortisone administration, and vitamin C in adrenal glands, guinea-pig (Harris, Constable, Hughes & Loewi) **310**
- Cortisone administration, and vitamin C requirement measured by tooth-structure method, guinea-pig (Harris, Constable, Hughes & Loewi) **310**
- Deamination of amino-acids by rumen micro-organisms *in vivo* and *in vitro*, sheep fed on hay with and without casein or dried-grass supplement (Lewis) **215**
- Deamination of individual and mixed amino-acids by sheep rumen micro-organisms *in vitro*, effect of concentration of substrate and pH (Lewis) **215**
- Deficiency *see under* Magnesium, Pyridoxin, Protein, Thiamine and Vitamin B complex
- Dentine, interstitial accretion of calcium, autoradiographic studies, growing rat (Tomlin, Henry & Kon) **144**
- Dentine, normal and depigmented tooth, iron and manganese in, normal and vitamin A-deficient rat compared (Moore & Mitchell) **174**
- Deoxyribonucleic acid in liver and diploid liver cell, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Depigmentation, tooth, and breed, vitamin A- or vitamin E-deficient rat (Moore & Mitchell) **174**
- Diet *see also under* Food(s)
- Diet, all-vegetable, with and without skim-milk supplement, nutrients and essential amino-acids in, and growth, Ceylonese child (Baptist & de Mel) **156**
- Diet, carbohydrate:protein ratio, and hypoglycin-A acute toxicity, rat (Feng & Kean) **368**
- Diet, choice of, from purified food constituents, effect on breeding performance, rat (Tribe) **103**
- Diet, choice of, from purified food constituents, young, adult, pregnant and lactating rat (Tribe) **103**
- Diet, choice of, and sense of smell and vitamin B-complex deficiency, rat (Tribe & Gordon) **1**
- Diet(s) containing different B-vitamins, choice of, normal and vitamin B complex-deficient rat (Tribe & Gordon) **200**
- Diet, poor vegetarian, containing ragi, nutrient intake from, nitrogen, calcium and phosphorus metabolism on, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Diet, poor vegetarian, effect of groundnut-milk curd supplement on growth, blood picture, nitrogen, calcium and phosphorus metabolism, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Diet, poor vegetarian, food intake, nitrogen, calcium and phosphorus metabolism, calorie intake and calculated basal metabolism on, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Diet, weaning, and malnutrition, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Dietary aureomycin supplement and growth, incidence of scouring, rectal temperature, mortality rate, colostrum-deprived newborn calf (Roy, Shillam, Palmer & Ingram) **94**
- Dietary penicillin, arsenilic-acid or chloramphenicol supplement compared, effect on body-weight and gut weight, chick (Coates, Davies & Kon) **110**
- Dietary penicillin, raw liver or penicillin and raw liver supplement compared, effect on body-weight and gut weight, chick (Coates, Davies & Kon) **110**
- Dietary penicillin supplement, and body-weight and gut weight and length, chick (Coates, Davies & Kon) **110**
- Dietary penicillin supplement, lack of effect on body-weight and gut weight, chick in isolation unit (Coates, Davies & Kon) **110**
- Dietary survey, long-term individual, daily intake of calories and nutrients, variability, and choice and length of sampling periods, elderly man, woman (Chappell) **323**
- Dog, urinary riboflavin excretion, and environmental temperature (Worden & Waterhouse) **5**
- Dry matter, fat and nitrogen in gut, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Duodenum *see under* Gut and Intestine
- Enamel organ, and dietary cod-liver oil, hake-liver oil, vitamin E, protein, vitamin E-deficient rat (Irving & Budtz-Olsen) **301**
- Enamel, tooth, iron in, and sex, breed, rat (Moore & Mitchell) **174**
- Enamel, tooth, iron in, normal, vitamin A- and vitamin E-deficient rat compared (Moore & Mitchell) **174**
- Endocrine stimulants with and without antibiotics, and growth, efficiency of food conversion, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**, (Lucas & Calder) **267**
- Energy *see also under* Calorie(s)
- Energy balance, body-weight, faeces composition, and overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Energy balance in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Energy expenditure, relation to food intake 2 days later, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) **286**
- Energy expenditure on various activities, variations in and between individuals, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) **286**
- Energy and food surveys, 1952 and 1953 compared, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) **286**
- Energy metabolism and magnesium deficiency, calf (Blaxter & Rook) **121**
- Environmental temperature, and urinary riboflavin excretion, dog (Worden & Waterhouse) **5**
- Ewe *see also under* Sheep

- Ewe, pregnant, liver fat chemically and histologically assessed, kidney fat histologically assessed, and plane of nutrition, starvation (Wright) **279**
- Excretion and absorption of calcium and phosphorus in various sections of gastro-intestinal tract studied with radioactive calcium and phosphorus, pig (Moore & Tyler) **81**
- Excretion, urinary, pyruvic acid, normal, magnesium-deficient and thiamine-deficient calf compared (Blaxter & Rook) **121**
- Excretion, urinary, riboflavin, and environmental temperature, dog (Worden & Waterhouse) **5**
- Excretion, urinary, thiamine, normal and thiamine-deficient calf compared (Blaxter & Rook) **121**
- Faeces composition on balanced and on excess diet, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Faeces, diurnal variation in calcium and phosphorus excretion, pig (Moore & Tyler) **63**
- Fasting *see under* Starvation
- Fat *see also under* Lard, Lipid(s) and Phospholipids
- Fat in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Fat in body and liver, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Fat, calories derived from, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Fat content of food mixtures used at weaning, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Fat deposition in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Fat(s), dietary, nutritive effects compared, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Fat, dry matter and nitrogen in gut, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Fat in faeces on balanced and on excess diet, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Fat-free diet, effect of addition of crude or extracted casein, raw skim milk or linoleic acid on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Fat intake from poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Fat, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Fat, intake from school food and from extras; calories derived from, Uganda boarding-school boy (Schwartz & Dean) **230**
- Fat, kidney, histologically assessed, and plane of nutrition, starvation, pregnant ewe (Wright) **279**
- Fat, liver, chemically and histologically assessed, and plane of nutrition, starvation, pregnant ewe (Wright) **279**
- Fatty acids, volatile, produced by in vitro fermentation of amino-acids by rumen micro-organisms, sheep (Lewis) **215**
- Feeding, excess, and body-weight, energy balance, faeces composition, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Feeding, excess, and energy, nitrogen, water, sodium and potassium balances, and composition of body-weight gain, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Feeding, excess, metabolic effects, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20, 27**
- Fish, essential amino-acids content (Hughes) **373**
- Fluid consumption, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Flora *see under* Listeria and Micro-organism(s)
- Flour-extraction rate, and intake of essential amino-acids, and adult nitrogen requirement, German orphanage child on vegetable diet (Hughes) **373**
- Flour, patent, essential amino-acids content (Hughes) **373**
- Folic acid in caecum contents, liver and urine, effects of dietary supplement of various antibiotics with and without succinylsulphathiazole compared, rat (Halevy, Diamant & Guggenheim) **57**
- Food(s) *see also under* Fish, Flour, Meat, Milk, Potato(es), Pulse(s), Vegetable(s) and Wheat
- Food(s), various, weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Food constituents, purified, choice of diet and calorie intake from, young, adult, pregnant and lactating rat (Tribe) **103**
- Food consumption, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Food consumption, growth and efficiency of food conversion, effect of dietary supplement of high-copper mineral mixture or aureomycin or both or of copper sulphate compared, pig (Barber, Braude & Mitchell) **378**
- Food-conversion efficiency, and dietary supplement of aureomycin or penicillin with and without thyroxine and stilboestrol, pig (Lucas & Calder) **267**
- Food-conversion efficiency, and dietary supplement of aureomycin or penicillin with and without thyroxine, stilboestrol or both, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**
- Food-conversion efficiency, and dietary supplement of high-copper mineral mixture, pig (Bowler, Braude, Campbell, Craddock-Turnbull, Fieldsend, Griffiths, Lucas, Mitchell, Nickalls & Taylor) **358**

- Food-conversion efficiency, food consumption and growth, effect of dietary supplement of high-copper mineral mixture or aureomycin or both or of copper sulphate compared, pig (Barber, Braude & Mitchell) **378**
- Food and energy surveys, 1952 and 1953 compared, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) **286**
- Food intake, daily, variations in and between individuals; relation to energy expenditure 2 days earlier, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) **286**
- Food mixtures used at weaning, composition of, and malnutrition, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Gastro-intestinal tract *see under* Caecum, Gut, Intestine and Stomach
- German orphanage child on vegetable diet and British prewar child compared, intake of various protein sources and essential amino-acids (Hughes) **373**
- German orphanage child on vegetable diet, extraction rate of flour, and intake of essential amino-acids, and adult nitrogen requirement (Hughes) **373**
- Girl *see also under* Child and Infant
- Girl, undernourished Indian, effect of groundnut-milk curd supplement to poor vegetarian diet on growth, blood picture, nitrogen, calcium and phosphorus metabolism (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Girl, undernourished Indian, food intake, nitrogen, calcium and phosphorus metabolism, calorie intake and calculated basal metabolism, on poor vegetarian diet (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Gland(s) *see under* Adrenal
- Glucose tolerance, magnesium-deficient and thiamine-deficient calf (Blaxter & Rook) **121**
- Glycogen in liver, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Groundnut-milk curd supplement to poor vegetarian diet, effect on growth, blood picture, nitrogen, calcium and phosphorus metabolism, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Groundnut oil, hydrogenated, in diet, effect of addition of crude or extracted casein, raw skim milk or linoleic acid on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Growth *see also under* Body-weight
- Growth, and aureomycin dietary supplement, colostrum-deprived newborn calf (Roy, Shillam, Palmer & Ingram) **94**
- Growth, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Growth, and dietary supplement of aureomycin or penicillin with and without thyroxine and stilboestrol, pig (Lucas & Calder) **267**
- Growth, and dietary supplement of aureomycin or penicillin with and without thyroxine, stilboestrol or both, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**
- Growth, and dietary supplement of high-copper mineral mixture, pig (Bowler, Braude, Campbell, Craddock-Turnbull, Fieldsend, Griffiths, Lucas, Mitchell, Nickalls & Taylor) **358**
- Growth, effect of addition of different amounts of nicotinic acid to hydrolysed casein diet containing various levels of tryptophan with and without histidine, leucine and threonine, chick (Fisher, Scott & Johnson) **340**
- Growth, effect of addition of different amounts of nicotinic acid to practical starting rations, chick (Fisher, Scott & Johnson) **340**
- Growth, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Growth, effect of graded pyridoxin supplements, pyridoxin-deficient rat (Batchen, Cheesman, Copping & Trusler) **49**
- Growth and efficiency of food conversion, effect of dietary supplement of high-copper mineral mixture or aureomycin or both or of copper sulphate compared, pig (Barber, Braude & Mitchell) **278**
- Growth on hydrolysed-casein diet with and without supplement of threonine, histidine or arginine or of all three, chick (Fisher, Scott & Johnson) **340**
- Growth, and intake of nutrients and essential amino-acids on calorie-deficient diet with animal protein and on all-vegetable diet with and without skim-milk supplement, Ceylonese child (Baptist & de Mel) **156**
- Growth used in assessment of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared, copper-deficient rat (Mills) **398**
- Guinea-pig, aureomycin by mouth and by subcutaneous injection, adverse effects on body-weight compared (Roine, Ettala, Raitio & Vartiovaara) **181**
- Guinea-pig, clinical picture in aureomycin poisoning, suggested mechanism of production and cure with penicillin or chloramphenicol (Roine, Ettala, Raitio & Vartiovaara) **181**
- Guinea-pig, cortisone administration and vitamin C in adrenal glands (Harris, Constable, Hughes & Loewi) **310**
- Guinea-pig, cortisone administration, and vitamin C requirement measured by tooth-structure method (Harris, Constable, Hughes & Loewi) **310**
- Guinea-pig, dietary aureomycin, and caecum weight and pH of caecal contents, differential leucocyte count, caecal micro-organisms, and aureomycin poisoning (Roine, Ettala, Raitio & Vartiovaara) **181**
- Guinea-pig, newborn, physiological undernutrition (Widdowson & McCance) **316**



- Guinea-pig, newborn and 1-week-old, weight and composition of body, liver, diploid liver cell (Widdowson & McCance) **316**
- Gut *see also under* Caecum and Intestine
- Gut, effect of dietary antibiotics, chick (Coates, Davies & Kon) **110**, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Gut, thiamine synthesis in, thiamine-deficient calf (Blaxter & Rook) **121**
- Gut weight and body-weight, effects of penicillin, arsenic acid or chloramphenicol dietary supplement compared, chick (Coates, Davies & Kon) **110**
- Gut weight and body-weight, effect of penicillin or raw liver or penicillin and raw liver dietary supplement compared, chick (Coates, Davies & Kon) **110**
- Gut weight and body-weight, lack of effect of penicillin dietary supplement, chick in isolation unit (Coates, Davies & Kon) **110**
- Gut weight and length, and body-weight, and penicillin dietary supplement, chick (Coates, Davies & Kon) **110**
- Gut weight, length, composition and histological picture, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Haematocrit values, effect of graded pyridoxin supplements, pyridoxin-deficient rat (Batchen, Cheesman, Copping & Trusler) **49**
- Haemoglobin *see also under* Blood
- Haemoglobin, effect of graded pyridoxin supplements, pyridoxin-deficient rat (Batchen, Cheesman, Copping & Trusler) **49**
- Haemoglobin regeneration used in assessment of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared, copper-deficient rat (Mills) **398**
- Hair-pigment regeneration used in assessment of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared, copper-deficient rat (Mills) **398**
- Hake-liver oil and cod-liver oil in vitamin E-deficient diet compared, effect on enamel organ, bone formation, liver picture, kidney lesions, uterus discoloration, rat (Irving & Budtz-Olsen) **301**
- Heart, carotene and vitamin A alcohol and ester in, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Height, effect of groundnut-milk curd supplement to poor vegetarian diet, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Height gain, and intake of nutrients and essential amino-acids on calorie-deficient diet with animal protein and on all-vegetable diet with and without skim-milk supplement, Ceylonese child (Baptist & de Mel) **156**
- Hen *see under* Pullet
- Herbage, availability of copper in, assessed by growth, haemoglobin and hair-pigment regeneration and liver copper, copper-deficient rat (Mills) **398**
- Histidine *see also under* Amino-acid(s)
- Histidine, alone or with threonine and arginine, supplement to hydrolysed-casein diet, and growth, chick (Fisher, Scott & Johnson) **340**
- Histidine, leucine and threonine with various amounts of tryptophan in hydrolysed-casein diet, effect on nicotinic-acid requirement, chick (Fisher, Scott & Johnson) **340**
- Histological assessment of liver and kidney fat, ewe (Wright) **279**
- Histological picture of gut, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Hormone(s) *see under* Stilboestrol and Thyroxine
- Human milk, South African Bantu, methionine content, compared with South African European, American, Indian and West African (Andersson & Walker) **191**
- Hydrogen produced by *in vitro* fermentation of amino-acids by rumen micro-organisms, sheep (Lewis) **215**
- Hydrolysis of phytate in large intestine, effect of calcium carbonate and calcium phosphate, pig (Moore & Tyler) **81**
- Hypoglycin-A acute toxicity, and carbohydrate: protein ratio of diet, rat (Feng & Kean) **368**
- Ileum *see under* Gut and Intestine
- Indian adult, nutrient intake from, nitrogen, calcium and phosphorus metabolism on, poor vegetarian diet containing ragi (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Indian girl, undernourished, effect of groundnut-milk curd supplement to poor vegetarian diet on growth, blood picture, nitrogen, calcium and phosphorus metabolism (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Indian girl, undernourished, food intake, nitrogen, calcium and phosphorus metabolism, calorie intake and calculated basal metabolism on poor vegetarian diet (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Infant *see also under* Child
- Infant, South African urban Bantu, weaning diet and malnutrition (Walker, Fletcher, Strydom & Andersson) **38**
- Intestine *see also under* Caecum and Gut
- Intestine, calcium and phosphorus absorption and excretion in various sections of, studied with radioactive calcium and phosphorus, pig (Moore & Tyler) **81**
- Intestine, contents of various sections of, pH; calcium, phosphorus and phytate phosphorus in, ratios to insoluble ash; calcium and phosphorus solubilities, at various times after feeding, pig (Moore & Tyler) **63**

- Intestine, large, effect of dietary calcium carbonate and calcium phosphate on phytate hydrolysis, pig (Moore & Tyler) **81**
- Intestine, not site of conversion for injected carotene, rabbit, rat (Kon, McGillivray & Thompson) **244**
- Iron in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Iron in dentine of normal and depigmented tooth, normal and vitamin A-deficient rat compared (Moore & Mitchell) **174**
- Iron, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Iron in tooth enamel, normal, vitamin A- and vitamin E-deficient rat compared (Moore & Mitchell) **174**
- Iron in tooth enamel, and sex, breed, rat (Moore & Mitchell) **174**
- Isolation unit, chick in, body-weight and gut weight, lack of effect of penicillin dietary supplement (Coates, Davies & Kon) **110**
- Jamaican diet, carbohydrate:protein ratio, and hypoglycin-A acute toxicity, rat (Feng & Kean) **368**
- Jejunum *see under* Gut and Intestine
- Kale, effect on vitamin A alcohol and ester in blood, rabbit (Kon, McGillivray & Thompson) **244**
- Kidney(s), carotene and vitamin A alcohol and ester in, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Kidney(s), carotene and vitamin A alcohol and ester in, after oral administration or intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Kidney fat, histologically assessed, and plane of nutrition, starvation, pregnant ewe (Wright) **279**
- Kidney lesions, and dietary cod-liver oil, hake-liver oil, vitamin E, protein, vitamin E-deficient rat (Irving & Budtz-Olsen) **301**
- Kidney, manganese in, effect of oestrogen treatment in equal or increasing doses compared, laying and non-laying pullet (Bolton) **170**
- Kidney weight, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Kidney weight, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Kidney weight and lesions, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Lactating rat, choice of diet and calorie intake from purified food constituents (Tribe) **103**
- Lactic acid, blood, muscular activity, tetany and magnesium deficiency, calf (Blaxter & Rook) **121**
- Lactic-acid metabolism, thiamine-deficient calf (Blaxter & Rook) **121**
- Lard in diet, effect of addition of crude or extracted casein, raw skim milk or linoleic acid on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Lesion(s), enamel, kidney, liver, bone, and dietary cod-liver oil, hake-liver oil, vitamin E, protein, vitamin E-deficient rat (Irving & Budtz-Olsen) **301**
- Lesion(s), skin and kidney, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Leucine, threonine and histidine with various amounts of tryptophan in hydrolysed-casein diet, effect of nicotinic-acid requirement, chick (Fisher, Scott & Johnson) **340**
- Linoleic acid in diet containing hydrogenated groundnut oil, lard or no fat, effect on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Lipid(s) *see also under* Fat(s) and Phospholipids
- Lipid(s), neutral, in diploid liver cell, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Listeria, role in aureomycin poisoning, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Liver, appearance of vitamin A alcohol and ester in, after intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution or after stomach-tube meal of carotene in aqueous Tween dispersion or in oily solution, vitamin A-deficient rat (Kon, McGillivray & Thompson) **244**
- Liver, biotin and folic acid in, effect of dietary supplement of various antibiotics with and without succinylsulphathiazole compared, rat (Halevy, Diamant & Guggenheim) **57**
- Liver, carotene and vitamin A alcohol and ester in, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Liver, carotene and vitamin A alcohol and ester in, after oral administration or intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Liver cell, diploid, weight and composition, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**

- Liver copper used in assessment of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared, copper-deficient rat (Mills) **398**
- Liver fat, chemically and histologically assessed, and plane of nutrition, starvation, pregnant ewe (Wright) **279**
- Liver, manganese, protein and fat in, effect of oestrogen treatment in equal or increasing doses compared, laying and non-laying pullet (Bolton) **170**
- Liver, nicotinic acid and citrovorum factor in, effect of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Liver picture, and vitamin E deficiency and dietary cod-liver oil, hake-liver oil, vitamin E, protein, rat (Irving & Budtz-Olsen) **301**
- Liver, raw, or penicillin, or penicillin and raw liver dietary supplement, compared, effect on body-weight and gut weight, chick (Coates, Davies & Kon) **110**
- Liver weight, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Liver, weight and composition, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Liver weight, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Lung(s), carotene and vitamin A alcohol and ester in, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Lung(s), carotene and vitamin A alcohol and ester in, after oral administration or intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Magnesium-deficient calf, carbon and nitrogen retention; glucose tolerance; carbohydrate and energy metabolism; urinary pyruvic-acid excretion; blood lactic and pyruvic acids, muscular activity and tetany; blood magnesium and heat production (Blaxter & Rook) **121**
- Magnesium and thiamine deficiencies, metabolic effects compared, calf (Blaxter & Rook) **121**
- Malnutrition *see also under* Starvation and Under-nutrition
- Malnutrition, and weaning diet, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Man *see also under* Boy, Cadet, Child, Girl, Human, Infant and Woman
- Man, adult Indian, nutrient intake from, nitrogen, calcium and phosphorus metabolism on, poor vegetarian diet containing ragi (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Man, daily intake of calories and nutrients, variability, and choice and length of sampling periods, long-term individual dietary survey (Chappell) **323**
- Man, elderly, long-term individual dietary survey, daily intake of calories and nutrients, and recommended allowances (Chappell) **323**
- Man, recommended caliper for consistent skinfold measurements (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Man, table of log transformation of measurements for use with dial-face caliper (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Man, thin young, energy, nitrogen, water, sodium and potassium balances, composition of body-weight gain in overfeeding (Passmore, Meiklejohn, Dewar & Thow) **27**
- Man, thin young, metabolic effects of overfeeding (Passmore, Meiklejohn, Dewar & Thow) **20, 27**
- Man, thin young, overfeeding and body-weight, energy balance, faeces composition (Passmore, Meiklejohn, Dewar & Thow) **20**
- Manganese in dentine of normal and depigmented tooth, normal and vitamin A-deficient rat compared (Moore & Mitchell) **174**
- Manganese in plasma, liver, kidney and spleen, effect of oestrogen treatment in equal or increasing doses compared, laying and non-laying pullet (Bolton) **170**
- Meat *see also under* Food(s)
- Meat, essential amino-acids content (Hughes) **373**
- Metabolic effects of magnesium and thiamine deficiencies compared, calf (Blaxter & Rook) **121**
- Metabolic effects of overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20, 27**
- Metabolism, basal, measured and calculated from various formulas compared, long-term individual dietary survey, woman (Chappell) **323**
- Metabolism, biotin and folic acid, effect of dietary supplement of various antibiotics with and without succinylsulphathiazole compared, rat (Halevy, Diamant & Guggenheim) **57**
- Metabolism, calcium, bone and tooth, interstitial accretion, autoradiographic studies, growing rat (Tomlin, Henry & Kon) **144**
- Metabolism, calcium and phosphorus, pig (Moore & Tyler) **63, 81, 389**
- Metabolism, calculated basal, and calorie intake on poor vegetarian diet, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Metabolism, carotene and vitamin A, calf, rabbit, rat (Kon, McGillivray & Thompson) **244**
- Metabolism, energy and carbohydrate, and magnesium deficiency, calf (Blaxter & Rook) **121**
- Metabolism, nicotinic-acid, effect of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Metabolism, nicotinic acid and tryptophan inter-relationships, chick (Fisher, Scott & Johnson) **340**

- Metabolism, nitrogen, calcium and phosphorus, on poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Metabolism, nitrogen, calcium and phosphorus on poor vegetarian diet, effect of groundnut-milk curd supplement, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Metabolism, nitrogen, calcium and phosphorus on poor vegetarian diet, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Metabolism, pyruvic and lactic acids, thiamine-deficient calf (Blaxter & Rook) **121**
- Methionine content of human milk, South African Bantu, compared with South African European, American, Indian and West African human milk (Andersson & Walker) **191**
- (*N'*-)Methylnicotinamide in urine, effect of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Micro-organism(s) *see also under* Listeria
- Micro-organism(s), caecal, and dietary aureomycin, and aureomycin poisoning, guinea-pig (Roine, Ettala, Raitio & Vartiavaara) **181**
- Micro-organism(s), rumen, deamination of amino-acids by, in vivo and in vitro, sheep fed on hay with and without casein or dried-grass supplement (Lewis) **215**
- Micro-organism(s), rumen, in vitro deamination of individual and mixed amino-acids by, effect of concentration of substrate and pH, sheep (Lewis) **215**
- Milk *see also under* Food(s)
- Milk, essential amino-acids content (Hughes) **373**
- Milk, human, South African Bantu, methionine content, compared with South African European, American, Indian and West African (Andersson & Walker) **191**
- Milk, raw skim, in diet containing hydrogenated groundnut oil, lard or no fat, effect on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Milk, skim-, supplement to all-vegetable diet, and growth, Ceylonese child (Baptist & de Mel) **156**
- Milk, whole and 'synthetic', diets compared, incidence of scouring, mortality rate, in relation to length of previous vacancy and use of calfhouse, newborn calf (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Mortality rate, incidence of scouring, and aureomycin dietary supplement, colostrum-deprived newborn calf (Roy, Shillam, Palmer & Ingram) **94**
- Mortality rate in relation to colostrum feeding and length of previous vacancy and use of calfhouse, newborn calf (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Net utilization *see also under* Nutritive value
- Net utilization of proteins, values obtained from analysis of carcass and by calculating body nitrogen from body water content compared, young rat (Miller & Bender) **382**
- Nicotinic acid *see also under* (*N'*-)Methylnicotinamide
- Nicotinic-acid additions to hydrolysed-casein diet containing various levels of tryptophan with and without histidine, leucine and threonine, effect on growth and incidence of perosis, chick (Fisher, Scott & Johnson) **340**
- Nicotinic-acid additions to practical starting rations, effect on growth, chick (Fisher, Scott & Johnson) **340**
- Nicotinic acid in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Nicotinic-acid intake from poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Nicotinic-acid, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Nicotinic acid in liver, effect of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Nicotinic-acid requirement, effect of tryptophan level in hydrolysed-casein diet, chick (Fisher, Scott & Johnson) **340**
- Nicotinic acid and tryptophan interrelationships, chick (Fisher, Scott & Johnson) **340**
- Nitrogen *see also under* Protein
- Nitrogen balance in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Nitrogen, body, equation relating to body water and age, use in rapid method for estimating net utilization of proteins from body water content, young rat (Miller & Bender) **382**
- Nitrogen, dry matter and fat in gut, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Nitrogen in faeces on balanced and on excess diet, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Nitrogen intake from, and metabolism on, poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Nitrogen metabolism, effect of groundnut-milk curd supplement to poor vegetarian diet, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Nitrogen metabolism on poor vegetarian diet, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Nutrient(s) in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Nutrition *see also under* Malnutrition, Overfeeding, Undernutrition and Starvation
- Nutrition, plane of, and liver fat chemically and histologically assessed, kidney fat histologically assessed, pregnant ewe (Wright) **279**

- Nutritional scours *see under* Scour(s)
- Nutritive value *see also under* Net utilization
- Nutritive value of poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Oestrogen treatment in equal or increasing doses compared, effect on body-weight, ovary, liver, spleen and kidney weights, oviduct length and weight, distance between pubic bones, plasma calcium, immature pullet (Bolton) **170**
- Oestrogen treatment in equal or increasing doses compared, effect on manganese in plasma, liver, kidney and spleen, protein and fat in liver, laying and non-laying pullet (Bolton) **170**
- Oil(s) *see under* Cod-liver oil, Fat(s) and Hake-liver oil
- Ovary weight, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Overfeeding and body-weight, energy balance, faeces composition, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20**
- Overfeeding and energy, nitrogen, water, sodium and potassium balances, and composition of body-weight gain, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Overfeeding, metabolic effects, thin young man (Passmore, Meiklejohn, Dewar & Thow) **20, 27**
- Oviduct length and weight, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Oxytetracycline *see also under* Antibiotic(s)
- Oxytetracycline dietary supplement, effect on nicotinic-acid metabolism, rat (Halevy, Diamant & Guggenheim) **57**
- Oxytetracycline dietary supplement with and without succinylsulphathiazole, effect on biotin and folic-acid metabolism, rat (Halevy, Diamant & Guggenheim) **57**
- Peanut *see under* Groundnut
- Penicillin *see also under* Antibiotic(s)
- Penicillin, arsanilic acid or chloramphenicol dietary supplement, effect on body-weight and gut weight compared, chick (Coates, Davies & Kon) **110**
- Penicillin, dietary, as cure for aureomycin poisoning, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Penicillin dietary supplement, and body-weight and gut weight and length, chick (Coates, Davies & Kon) **110**
- Penicillin dietary supplement, effect on nicotinic-acid metabolism, rat (Halevy, Diamant & Guggenheim) **57**
- Penicillin dietary supplement, lack of effect on body-weight and gut weight, chick in isolation unit (Coates, Davies & Kon) **110**
- Penicillin dietary supplement with and without succinylsulphathiazole, effect on biotin and folic-acid metabolism, rat (Halevy, Diamant & Guggenheim) **57**
- Penicillin dietary supplement with and without thyroxine, stilboestrol or both, and growth, efficiency of food conversion, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**
- Penicillin dietary supplement with and without thyroxine and stilboestrol, and growth, efficiency of food conversion, carcass quality, pig (Lucas & Calder) **267**
- Penicillin or raw liver or penicillin and raw liver dietary supplement compared, effect on body-weight and gut weight, chick (Coates, Davies & Kon) **110**
- Perosis, incidence of, effect of addition of different amounts of nicotinic acid to hydrolysed-casein diet containing various levels of tryptophan with and without histidine, leucine and threonine, chick (Fisher, Scott & Johnson) **340**
- Phospholipid(s) in diploid liver cell, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Phosphorus absorption and excretion in various sections of gastro-intestinal tract, effect of dietary beryllium carbonate, pig (Moore & Tyler) **389**
- Phosphorus absorption and excretion in various sections of gastro-intestinal tract studied with radioactive phosphorus, pig (Moore & Tyler) **81**
- Phosphorus in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Phosphorus in body, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Phosphorus excretion in faeces, diurnal variation, pig (Moore & Tyler) **63**
- Phosphorus intake from, and metabolism on, poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Phosphorus metabolism on poor vegetarian diet, effect of groundnut-milk curd supplement, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Phosphorus metabolism, pig (Moore & Tyler) **63, 81, 389**
- Phosphorus, solubility and ratio to insoluble ash in various sections of gastro-intestinal tract, effect of dietary beryllium carbonate, pig (Moore & Tyler) **389**
- Phosphorus, solubility and ratio to insoluble ash in various sections of gastro-intestinal tract at various times after feeding, pig (Moore & Tyler) **63**
- Phytase, cereal, inhibition by dietary beryllium carbonate, pig (Moore & Tyler) **389**
- Phytate hydrolysis in large intestine, effect of dietary calcium carbonate and calcium phosphate, pig (Moore & Tyler) **81**
- Phytate hydrolysis in large intestine, effect of dietary beryllium carbonate, pig (Moore & Tyler) **389**
- Phytate phosphorus, ratio to insoluble ash in various sections of gastro-intestinal tract, effect of dietary beryllium carbonate, pig (Moore & Tyler) **389**

- Phytate phosphorus, ratio to insoluble ash in various sections of gastro-intestinal tract at various times after feeding, pig (Moore & Tyler) **63**
- Pig, antibiotics with and without endocrine stimulants, and growth, efficiency of food conversion (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**, (Lucas & Calder) **267**
- Pig, body-weight, liver, kidney and spleen weight, gut weight, length, composition and histological picture, and aureomycin dietary supplement (Braude, Coates, Davies, Harrison & Mitchell) **363**
- Pig, calcium and phosphorus absorption and excretion in various sections of gastro-intestinal tract studied with radioactive calcium and phosphorus (Moore & Tyler) **81**
- Pig, calcium and phosphorus metabolism (Moore & Tyler) **63**, **81**, **389**
- Pig, contents of various sections of gastro-intestinal tract, effect of dietary beryllium carbonate on pH, ratios of calcium, phosphorus and insoluble ash in, calcium and phosphorus solubilities (Moore & Tyler) **389**
- Pig, contents of various sections of gastro-intestinal tract, pH; calcium, phosphorus and phytate phosphorus in, ratios to insoluble ash; calcium and phosphorus solubilities, at various times after feeding (Moore & Tyler) **63**
- Pig, effect of dietary beryllium carbonate on phytate hydrolysis in large intestine (Moore & Tyler) **389**
- Pig, effect of dietary beryllium carbonate on calcium and phosphorus absorption and excretion in various sections of gastro-intestinal tract (Moore & Tyler) **389**
- Pig, effect of dietary calcium carbonate and calcium phosphate on phytate hydrolysis in large intestine (Moore & Tyler) **81**
- Pig, faecal calcium and phosphorus excretion, diurnal variation (Moore & Tyler) **63**
- Pig, food consumption, growth and efficiency of food conversion, effect of dietary supplement of high-copper mineral mixture or aureomycin or both or of copper sulphate compared (Barber, Braude, & Mitchell) **378**
- Pig, growth, efficiency of food conversion, carcass quality, and dietary supplement of penicillin or aureomycin with and without thyroxine and stilboestrol (Lucas & Calder) **267**
- Pig, growth, efficiency of food conversion, and dietary supplement of aureomycin or penicillin with and without thyroxine, stilboestrol or both (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**
- Pig, growth, efficiency of food conversion, and dietary supplement of high-copper mineral mixture (Bowler, Braude, Campbell, Craddock-Turnbull, Fieldsend, Griffiths, Lucas, Mitchell, Nickalls & Taylor) **358**
- Pig, toxic effects of stilboestrol feeding (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) **191**, (Lucas & Calder) **267**
- Pigment, hair-, regeneration used in assessment of availability of dietary copper; ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared, copper-deficient rat (Mills) **398**
- Plasma calcium, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Poisoning *see also under* Toxic
- Poisoning, aureomycin, clinical picture in, suggested mechanism of production and cure with penicillin or chloramphenicol, guinea-pig (Roine, Ettala, Raitio & Vartiovaara) **181**
- Polyoxyethylenesorbitan monopalmitate *see under* Tween **40**
- Potassium balance in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Potassium in body and liver, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Potato(es) *see also under* Food(s)
- Potato(es), essential amino-acids content (Hughes) **373**
- Pregnant ewe, liver fat chemically and histologically assessed, kidney fat histologically assessed, and plane of nutrition, starvation (Wright) **279**
- Pregnant rat, choice of diet and calorie intake from purified food constituents (Tribe) **103**
- Protein in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Protein, animal and total, intake from school food and from extras; calories derived from, Uganda boarding-school boy (Schwartz & Dean) **230**
- Protein in body, liver, diploid liver cell, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Protein, calories derived from, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Protein:carbohydrate ratio of diet, and hypoglycin-A acute toxicity, rat (Feng & Kean) **368**
- Protein deficiency of food mixtures used at weaning, and malnutrition, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Protein deposition in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Protein, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Protein, limiting amino-acid in, rapid method for estimating, young rat (Miller & Bender) **382**
- Protein in liver, effect of oestrogen treatment in equal or increasing doses compared, laying and non-laying pullet (Bolton) **170**
- Protein(s), net utilization, rapid method for estimating from body water content, young rat (Miller & Bender) **382**
- Protein sources, various, intake of, German orphanage child on vegetable diet and British prewar child compared (Hughes) **373**

- Protein(s), various, net-utilization values obtained from analysis of carcass and by calculating body nitrogen from water content compared, young rat (Miller & Bender) **382**
- Pubic bones, distance between, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) **170**
- Pullet, immature, oestrogen treatment in equal or increasing doses compared, effect on body-weight, ovary, liver, spleen and kidney weights, oviduct length and weight, distance between pubic bones, plasma calcium (Bolton) **170**
- Pullet, laying and non-laying, oestrogen treatment in equal or increasing doses compared, effect on manganese in plasma, liver, kidney and spleen, protein and fat in liver (Bolton) **170**
- Pulse(s), essential amino-acids content (Hughes) **373**
- Pyridoxin deficiency and growth, blood picture, rat (Batchen, Cheesman, Copping & Trusler) **49**
- Pyruvic acid, blood, muscular activity, and tetany, and magnesium deficiency, calf (Blaxter & Rook) **121**
- Pyruvic-acid excretion, urinary, compared, normal, magnesium-deficient and thiamine-deficient calf (Blaxter & Rook) **121**
- Pyruvic-acid metabolism, thiamine-deficient calf (Blaxter & Rook) **121**
- Rabbit, carotene and vitamin A in blood and carcass, carotene and vitamin A alcohol and ester in heart, lungs, kidneys and liver, after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween (Kon, McGillivray & Thompson) **244**
- Rabbit, intestine not site of conversion into vitamin A of injected carotene (Kon, McGillivray & Thompson) **244**
- Rabbit, rat and calf compared, carotene in blood after intravenous injection in aqueous Tween dispersion (Kon, McGillivray & Thompson) **244**
- Rabbit, vitamin A alcohol and ester in blood after oral administration of carotene in aqueous Tween dispersion or in oily solution (Kon, McGillivray & Thompson) **244**
- Rabbit, vitamin A in blood, effect of repeated sampling after intravenous injection of aqueous solution of Tween (Kon, McGillivray & Thompson) **244**
- Radioactive calcium and phosphorus in studies of calcium and phosphorus absorption and excretion in various sections of gastro-intestinal tract, pig (Moore & Tyler) **81**
- Radioactive calcium, use in bone- and dentine-growth studies, growing rat (Tomlin, Henry & Kon) **144**
- Ragi diet, poor vegetarian, nutrient intake from, nitrogen, calcium and phosphorus metabolism on, Indian adult, (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Rat, breeding performance, effect of free choice of diet from purified food constituents (Tribe) **103**
- Rat, calf and rabbit compared, carotene in blood after intravenous injection in aqueous Tween dispersion (Kon, McGillivray & Thompson) **244**
- Rat, growing, interstitial accretion of calcium in bone and dentine, autoradiographic studies (Tomlin, Henry & Kon) **144**
- Rat, effect on growth, food and fluid consumption, urine production, efficiency of calorie conversion, skin lesions, kidney weight and lesions, of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Rat, hypoglycin-A acute toxicity, and carbohydrate : protein ratio of diet (Feng & Kean) **368**
- Rat, intestine not site of conversion into vitamin A of injected carotene (Kon, McGillivray & Thompson) **244**
- Rat, iron in tooth enamel, and sex, breed (Moore & Mitchell) **174**
- Rat, metabolism of biotin and folic acid, effect of dietary supplement of various antibiotics with and without succinylsulphathiazole compared (Halevy, Diamant & Guggenheim) **57**
- Rat, metabolism of nitotinic acid, effect of dietary supplement of various antibiotics compared (Halevy, Diamant & Guggenheim) **57**
- Rat, normal and vitamin A-deficient compared, iron and manganese in enamel and dentine of normal and depigmented teeth (Moore & Mitchell) **174**
- Rat, normal, vitamin A- and vitamin E-deficient compared, iron in tooth enamel (Moore & Mitchell) **174**
- Rat, normal and vitamin B-complex deficient, free choice of diet containing different B-vitamins (Tribe & Gordon) **200**
- Rat, production of copper deficiency for studies of availability of dietary copper by assessment of growth, haemoglobin and hair-pigment regeneration and liver copper; availability of ionic copper and copper in 'swayback' herbage and in fat-soluble and water-soluble extracts and ash of normal herbage compared (Mills) **398**
- Rat, pyridoxin-deficient, effect of graded pyridoxin supplements on growth, blood picture (Batchen, Cheesman, Copping & Trusler) **49**
- Rat, vitamin A-deficient, appearance of carotene and vitamin A alcohol and ester in blood, intestine and liver after stomach-tube meal of carotene in aqueous Tween dispersion or in oily solution (Kon, McGillivray & Thompson) **244**
- Rat, vitamin A-deficient, appearance of vitamin A alcohol and ester in blood and liver after intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution (Kon, McGillivray & Thompson) **244**
- Rat, vitamin A-deficient or vitamin E-deficient, albino or piebald, rate of dental depigmentation compared (Moore & Mitchell) **174**

- Rat, vitamin B-complex deficiency and sense of smell and choice of diet (Tribe & Gordon) **1**
- Rat on vitamin E-deficient diet with cod-liver oil or hake-liver oil, effect of vitamin E or extra protein or both on enamel organ, bone formation, liver picture, kidney lesions (Irving & Budtz-Olsen) **301**
- Rat, vitamin E deficiency, and enamel organ, bone formation, liver picture, kidney lesions, and dietary cod-liver oil, hake-liver oil, vitamin E, protein (Irving & Budtz-Olsen) **301**
- Rat, young, adult, pregnant and lactating, choice of diet and calorie intake from purified food constituents (Tribe) **103**
- Rat, young, equation relating body nitrogen to body water and age, use in rapid method for estimating net utilization of proteins from body water content (Miller & Bender) **382**
- Rectum *see under* Intestine
- Red blood cell count, effect of graded pyridoxin supplements, pyridoxin-deficient rat (Batchen, Cheesman, Copping & Trusler) **49**
- Reproduction *see under* Breeding
- Requirement, nicotinic-acid, effect of tryptophan level in hydrolysed-casein diet, chick (Fisher, Scott & Johnson) **340**
- Requirement, vitamin C, measured by tooth-structure method, and cortisone administration, guinea-pig (Harris, Constable, Hughes & Loewi) **310**
- Riboflavin in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Riboflavin, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Riboflavin, urinary excretion, and environmental temperature, dog (Worden & Waterhouse) **5**
- Ribonucleic acid in diploid liver cell, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Rice diet, poor vegetarian, effect of groundnut-skim curd supplement on growth, blood picture, nitrogen, calcium and phosphorus metabolism, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Rice diet, poor vegetarian, food intake, nitrogen, calcium and phosphorus metabolism, calorie intake and calculated basal metabolism on, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Rumen contents, amino-acids in, before and after feeding, sheep fed on hay with and without casein or dried-grass supplement (Lewis) **215**
- Rumen micro-organisms, deamination of amino-acids by, in vivo and in vitro, sheep fed on hay with and without casein or dried-grass supplement (Lewis) **215**
- Rumen micro-organisms, in vitro deamination of individual and mixed amino-acids by, effect of concentration of substrate and pH, sheep (Lewis) **215**
- Scour(s), nutritional, incidence of, in relation to colostrum feeding and length of previous vacancy and use of calfhouse, newborn calf (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Scour(s), nutritional, incidence of, and length of previous vacancy and use of calfhouse, 'synthetic-milk' and whole-milk diets compared, newborn calf (Roy, Palmer, Shillam, Ingram & Wood) **11**
- Scour(s), nutritional, mortality rate and aureomycin dietary supplement, colostrum-deprived newborn calf (Roy, Shillam, Palmer & Ingram) **94**
- Sex, and iron in tooth enamel, rat (Moore & Mitchell) **174**
- Sheep *see also under* Ewe
- Sheep fed on hay with and without casein or dried-grass supplement, amino-acids in rumen contents before and after feeding; deamination of amino-acids by rumen micro-organisms in vivo and in vitro (Lewis) **215**
- Sheep, rumen micro-organisms, in vitro deamination of individual and mixed amino-acids, effect of concentration of substrate and pH (Lewis) **215**
- Skeleton *see under* Bone
- Skin lesions, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil, lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Skinfold caliper, consistency of readings, and face area, pressure; recommendations for type of caliper to give consistent readings, man (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Skinfold measurements, recommended dial-face caliper for, consistency of readings made with different calipers, by different observers, at different pressures, man (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Skinfold measurements, table of log transformation, for use with recommended dial-face caliper, man (Edwards, Hammond, Healy, Tanner & Whitehouse) **133**
- Smell, sense of, and vitamin B-complex deficiency and choice of diet, rat (Tribe & Gordon) **1**
- Sodium balance in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Sodium in body and liver, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Solid(s), total, content of food mixtures used at weaning, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- South African Bantu woman, methionine content of breast milk, compared with South African European, American, Indian and West African woman (Andersson & Walker) **191**
- South African urban Bantu infant, weaning diet and malnutrition (Walker, Fletcher, Strydom & Andersson) **38**
- Spleen, manganese in, effect of oestrogen treatment in equal or increasing doses compared, laying and non-laying pullet (Bolton) **170**



- Spleen weight, and aureomycin dietary supplement, pig (Braude, Coates, Davies, Harrison & Mitchell) 363
- Spleen weight, effect of oestrogen treatment in equal or increasing doses compared, immature pullet (Bolton) 170
- Starvation, and liver fat chemically and histologically assessed, kidney fat histologically assessed, pregnant ewe (Wright) 279
- Stilboestrol dietary supplement with and without aureomycin or penicillin with and without thyroxine, and growth, efficiency of food conversion, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) 191
- Stilboestrol feeding, toxic effects, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) 191, (Lucas & Calder) 267
- Stilboestrol and thyroxine with dietary supplement of aureomycin or penicillin, and growth, efficiency of food conversion, carcass quality, pig (Lucas & Calder) 267
- Stomach, calcium and phosphorus absorption and excretion in various sections of, studied with radioactive calcium and phosphorus, pig (Moore & Tyler) 81
- Stomach, contents of various sections of, pH; calcium, phosphorus and phytate phosphorus in, ratios to insoluble ash; calcium and phosphorus solubilities, at various times after feeding, pig (Moore & Tyler) 63
- Streptomycin *see also under* Antibiotic(s)
- Streptomycin dietary supplement, effect on nicotinic-acid metabolism, rat (Halevy, Diamant & Guggenheim) 57
- Streptomycin dietary supplement with and without succinylsulphathiazole, effect on biotin and folic-acid metabolism, rat (Halevy, Diamant & Guggenheim) 57
- Succinylsulphathiazole with dietary supplement of various antibiotics, effect on biotin and folic-acid metabolism, rat (Halevy, Diamant & Guggenheim) 57
- Sulphonamide *see also under* Succinylsulphathiazole
- Survey, dietary, long-term individual, daily intake of calories and nutrients, variability, and choice and length of sampling periods, elderly man, woman (Chappell) 323
- Survey(s), food and energy, 1952 and 1953 compared, British armed forces cadet (Edholm, Fletcher, Widdowson & McCance) 286
- 'Swayback' and normal herbage compared, availability of copper to copper-deficient rat (Mills) 398
- Synthesis, thiamine, in gut, thiamine-deficient calf (Blaxter & Rook) 121
- Temperature, environmental, and urinary riboflavin excretion, dog (Worden & Waterhouse) 5
- Temperature, rectal, and aureomycin dietary supplement, colostrum-deprived newborn calf (Roy, Shillam, Palmer & Ingram) 94
- Terramycin *see also under* Oxytetracycline and Antibiotic(s)
- Tetany, muscular activity, blood lactic and pyruvic acids, and magnesium deficiency, calf (Blaxter & Rook) 121
- Thiamine in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) 156
- Thiamine-deficient calf, glucose tolerance; thiamine balance with and without antibiotics; thiamine synthesis in gut; metabolism of lactic and pyruvic acids; blood lactic and pyruvic acids; urinary pyruvic-acid excretion, clinical picture; post-mortem findings (Blaxter & Rook) 121
- Thiamine excretion, urinary, compared, normal and thiamine-deficient calf (Blaxter & Rook) 121
- Thiamine intake from poor vegetarian diet containing ragi, Indian adult (Subrahmanyan, Narayanarao, Ramarao & Swaminathan) 350
- Thiamine, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) 323
- Thiamine and magnesium deficiencies, metabolic effects compared, calf (Blaxter & Rook) 121
- Thiamine synthesis in gut, thiamine-deficient calf (Blaxter & Rook) 121
- Threonine, alone or with arginine and histidine, supplement to hydrolysed-casein diet, and growth, chick (Fisher, Scott & Johnson) 340
- Threonine, histidine and leucine with various amounts of tryptophan in hydrolysed-casein diet, effect on nicotinic-acid requirement, chick (Fisher, Scott & Johnson) 340
- Thyroxine dietary supplement with and without aureomycin or penicillin with and without stilboestrol, and growth, efficiency of food conversion, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) 191
- Thyroxine and stilboestrol with dietary supplement of aureomycin or penicillin, and growth, efficiency of food conversion, carcass quality, pig (Lucas & Calder) 267
- $\alpha$ -Tocopherol *see also under* Vitamin E
- Tooth *see also under* Dentine and Enamel
- Tooth depigmentation and breed, vitamin A- or vitamin E-deficient rat (Moore & Mitchell) 174
- Tooth enamel, iron in, normal, vitamin A- and vitamin E-deficient rat compared (Moore & Mitchell) 174
- Tooth enamel, iron in, and sex, breed, rat (Moore & Mitchell) 174
- Tooth, normal and depigmented, iron and manganese in dentine, normal and vitamin A-deficient rat compared (Moore & Mitchell) 174
- Tooth-structure method for measurement of vitamin C requirement, guinea-pig (Harris, Constable, Hughes & Loewi) 310
- Toxic *see also under* Poisoning
- Toxic effects of stilboestrol feeding, pig (Braude, Campbell, Lucas, Luscombe, Robinson & Taylor) 191, (Lucas & Calder) 267
- Toxicity *see also under* Poison and Poisoning

- Toxicity, hypoglycin-A acute, and carbohydrate: protein ratio of diet, rat (Feng & Kean) **368**
- Toxicity of injected Tween to calf, rabbit and rat compared (Kon, McGillivray & Thompson) **244**
- Tryptophan level in hydrolysed-casein diet with and without histidine, leucine and threonine, effect on nicotinic-acid requirement, chick (Fisher, Scott & Johnson) **340**
- Tryptophan and nicotinic acid interrelationships, chick (Fisher, Scott & Johnson) **340**
- Tween 40, aqueous dispersions of carotene or vitamin A with and without, effects by mouth or injection in calf, rabbit and rat (Kon, McGillivray & Thompson) **244**
- Tween 40, injected, toxicity to calf, rabbit and rat compared (Kon, McGillivray & Thompson) **244**
- Tween 40 for preparing aqueous dispersion of carotene or vitamin A (Kon, McGillivray & Thompson) **244**
- Uganda boarding-school boy and British boy compared, calorie intake from school food and total calorie intake; calories derived from protein, fat, carbohydrate; body-weight and calorie intake (Schwartz & Dean) **230**
- Uganda boarding-school boy, intake of animal protein, total protein, fat, carbohydrate and calories from school food and from extras (Schwartz & Dean) **230**
- Undernutrition *see also under* Malnutrition and Starvation
- Undernutrition, physiological, newborn guinea-pig (Widdowson & McCance) **316**
- Urinary pyruvic-acid excretion compared, normal, magnesium-deficient and thiamine-deficient calf (Blaxter & Rook) **121**
- Urinary riboflavin excretion, and environmental temperature, dog (Worden & Waterhouse) **5**
- Urinary thiamine excretion compared, normal and thiamine-deficient calf (Blaxter & Rook) **121**
- Urine, biotin and folic acid in, effect of dietary supplement of various antibiotics with and without succinylsulphathiazole compared, rat (Halevy, Diamant & Guggenheim) **57**
- Urine, *N*'-methylnicotinamide and citrovorum factor in, effect of dietary supplement of various antibiotics compared, rat (Halevy, Diamant & Guggenheim) **57**
- Urine production, effect of crude or extracted casein, raw skim milk or linoleic acid in diets containing hydrogenated groundnut oil or lard or no fat, rat (Aaes-Jørgensen, Engel, Funch & Dam) **42**
- Uterus discoloration, and cod-liver oil, hake-liver oil, in vitamin E-deficient diet, rat (Irving & Budtz-Olsen) **301**
- Vegetable(s) *see also under* Food(s)
- Vegetable diet, with and without skim-milk supplement, nutrients and essential amino-acids in, and growth, Ceylonese child (Baptist & de Mel) **156**
- Vegetable(s), green, essential amino-acids content (Hughes) **373**
- Vegetarian diet, poor, containing ragi, nutrient intake from, nitrogen, calcium and phosphorus metabolism on, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Vegetarian diet, poor, effect of groundnut-milk curd supplement on growth, blood picture, nitrogen, calcium and phosphorus metabolism, undernourished Indian girl (Sur, Reddy, Swaminathan & Subrahmanyam) **210**
- Vegetarian diet, poor, food intake, nitrogen, calcium and phosphorus metabolism, calorie intake and calculated basal metabolism on, undernourished Indian girl (Murthy, Reddy, Swaminathan & Subrahmanyam) **203**
- Vitamin A alcohol and ester, appearance in blood, intestine and liver after stomach-tube meal of carotene in aqueous Tween dispersion or in oily solution, vitamin A-deficient rat (Kon, McGillivray & Thompson) **244**
- Vitamin A alcohol and ester, appearance in blood and liver after intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient rat (Kon, McGillivray & Thompson) **244**
- Vitamin A alcohol and ester in blood after oral administration of carotene or vitamin A in aqueous dispersion with and without Tween or in oily solution, rabbit (Kon, McGillivray & Thompson) **244**
- Vitamin A alcohol and ester in blood after oral administration or intravenous injection of carotene in aqueous dispersion with and without Tween or in oily solution or of vitamin A in aqueous Tween dispersion or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Vitamin A alcohol and ester in heart, lungs, kidneys and liver after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Vitamin A alcohol and ester in liver, lungs and kidneys after oral administration or intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween or in oily solution, vitamin A-deficient calf (Kon, McGillivray & Thompson) **244**
- Vitamin A in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Vitamin A in blood and carcass after intravenous injection of carotene or vitamin A in aqueous dispersion with and without Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Vitamin A in blood, effect of repeated sampling after intravenous injection of aqueous solution of Tween, rabbit (Kon, McGillivray & Thompson) **244**
- Vitamin A, conversion into, of injected carotene, intestine not site of, rabbit, rat (Kon, McGillivray & Thompson) **244**

- Vitamin A-deficient and normal rat compared, iron and manganese in dentine of normal and depigmented tooth (Moore & Mitchell) **174**
- Vitamin A-deficient rat, albino or piebald, rate of dental depigmentation compared (Moore & Mitchell) **174**
- Vitamin A-deficient, vitamin E-deficient and normal rat compared, iron in tooth enamel (Moore & Mitchell) **174**
- Vitamin A intake from poor vegetarian diet containing ragi, Indian adult (Subrahmanyam, Narayanarao, Ramarao & Swaminathan) **350**
- Vitamin A, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Vitamin A, lack of conversion of injected carotene into, calf (Kon, McGillivray & Thompson) **244**
- Vitamin A metabolism, calf, rabbit, rat (Kon, McGillivray & Thompson) **244**
- Vitamin B-complex deficient rat, free choice of diet containing different B-vitamins (Tribe & Gordon) **200**
- Vitamin B-complex deficiency and sense of smell and choice of diet, rat (Tribe & Gordon) **1**
- Vitamin B<sub>1</sub>, *see under* Thiamine
- Vitamin B<sub>2</sub>, *see under* Riboflavin
- Vitamin B<sub>6</sub>, *see under* Pyridoxin
- Vitamin C in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Vitamin C in adrenal glands, and cortisone administration, guinea-pig (Harris, Constable, Hughes & Loewi) **310**
- Vitamin C, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Vitamin C requirement measured by tooth-structure method, and cortisone administration, guinea-pig (Harris, Constable, Hughes & Loewi) **310**
- Vitamin D in all-vegetable diet with and without skim-milk supplement, and growth, Ceylonese child (Baptist & de Mel) **156**
- Vitamin D, intake and recommended allowance; variation in weekly intake, long-term individual dietary survey, elderly man, woman (Chappell) **323**
- Vitamin E-deficient diet with cod-liver oil or hake-liver oil compared, effect on enamel organ, bone formation, liver picture, kidney lesions, uterus discoloration, rat (Irving & Budtz-Olsen) **301**
- Vitamin E-deficient rat, albino or piebald, rate of dental depigmentation compared (Moore & Mitchell) **174**
- Vitamin E-deficient, vitamin A-deficient and normal rat compared, iron in tooth enamel (Moore & Mitchell) **174**
- Vitamin E and protein compared in protecting enamel organ, bone, liver, kidneys, vitamin E-deficient rat (Irving & Budtz-Olsen) **301**
- Water balance in overfeeding, thin young man (Passmore, Meiklejohn, Dewar & Thow) **27**
- Water in body, liver and diploid liver cell, newborn and 1-week-old guinea-pig (Widdowson & McCance) **316**
- Weaning diet, and malnutrition, South African urban Bantu infant (Walker, Fletcher, Strydom & Andersson) **38**
- Weight *see under* Body-weight and Growth
- Wheat, whole, essential amino-acids content (Hughes) **373**
- White blood cell count, effect of graded pyridoxin supplements, pyridoxin-deficient rat (Batchen, Cheesman, Copping & Trusler) **49**
- White scours *see under* Scour(s)
- Woman, basal metabolism, measured and calculated from various formulas compared, long-term individual survey (Chappell) **323**
- Woman, long-term individual dietary survey, daily intake of calories and nutrients, and recommended allowances (Chappell) **323**
- Woman, South African Bantu, methionine content of breast milk, compared with South African European, American, Indian and West African woman (Andersson & Walker) **191**