Description of search strings for association between protein intake and health outcomes. General search including children. (Abstracts of studies including participants 0-18 y were given to the child expert group.)

## protein-1

((exp Dietary Proteins .sh. OR Proteins.sh. me [Metabolism] OR Nitrogen.sh. me [Metabolism] OR amino acids.sh. or exp amino acids, essential.sh. OR exp Diet, Protein-Restricted.sh. or exp Diet, Vegetarian.sh. OR exp Fish Proteins.sh. OR exp Plant Proteins.sh. OR ((egg\* or yolk\* or milk or animal\* or diet\*) adj3 protein\*).tw. OR (amino adj2 acid\* adj4 (essential\* or nonessential\* or non essential\* or dispensable\* or nondispensable\* or non dispensable\*)).tw. OR (diet\* adj3 (low protein\* or protein restricted or protein free or high protein)).tw. OR ((Soy or soy bean\* or soybean\* or plant or vegetable\* or fish) adj3 protein\*)[tw] OR ((vegan\* or vegetarian\*) and protein\*)[tw] OR ((diet\* or balance\*) adj3 nitrogen\*).tw.) AND (intake\* or timing\* or frequen\* or requirement\* or utilization\*).tw. OR nutritional requirements.sh.))

AND

exp Lipids.sh. bl [Blood] OR  exp Lipoproteins.sh. OR exp Hyperlipidemias.sh.OR cholesterol, hdl.sh. or cholesterol, ldl.sh. OR exp Triglycerides.sh. OR ((serum or blood) adj2 lipid\*).tw. OR lipoprotein\*.tw. OR hyperlipidemia\*.tw.OR (cholesterol adj2 (hdl or ldl)).tw. OR triglyceride\*.tw. OR exp Glucose.sh. OR exp Hyperglycemia.sh. OR (glucose or dextrose).tw. OR (d glucose or l glucose).tw. OR (fasting adj3 glucose).tw. OR (hyperglycemia or hyperglucemia or hyperglycemic or (hyper adj glycemi\*)).tw. OR (blood adj2 (sugar or glucose)).tw. OR (glucose adj2 intoleranc\*).tw. OR Insulin.sh. OR exp Insulin Resistance.sh. OR exp Hyperinsulinism[sh] OR (insulin\* or hyperinsulin\*)[tw] OR exp Blood Pressure[sh] OR exp hypertension[sh] OR exp hypotension.sh. OR ((blood or diastolic\* or pulse or systolic\*) adj2 pressur\*).tw. OR (hypertension\* or hypotension\*).tw. OR exp Body Composition.sh. OR exp body mass index.sh. OR exp Abdominal Fat.sh. OR  Waist-hip ratio.sh. OR  exp Adipose Tissue.sh. OR  (body adj2 composition\*).tw. OR (body adj2 fat\* adj3 (distribution\* or pattern\*)).tw. OR (body adj2 mass adj3 index).tw. OR  bmi.tw. OR ((fat free or lean) adj3 body mass).tw. OR  (waist adj2 hip).tw. OR adiposity.tw. OR ((visceral or abdominal or body or pad) adj2 fat\*).tw. OR exp "Bone and Bones".sh. OR Bone Density.sh. OR exp Fractures, Bone.sh. OR exp Osteoporosis.sh. OR (bone or bones).tw. OR (osteoporos\* or bone loss\*).tw. OR exp Pregnancy Outcome.sh. OR exp Parturition.sh. OR Abortion, Spontaneous.sh. OR exp Infant, Newborn.sh. OR "growth and development".sh. or exp aging.sh. or exp growth.sh. OR exp Muscular Atrophy.sh. OR (birth\* or childbirth\* or stillbirth\* or (pregnancy adj2 outcome\*)).tw. OR parturition\*.tw. OR (abortion\* or miscarriage\*).tw. OR (Infant\* adj2 newborn) or neonate\*).tw. OR (Body adj2 (size or height\* or weight\*)).tw. OR (cell\* adj2 (growth or enlargement\* or proliferation\*)).tw. OR (organ adj2 (size\* or weight\* or volume\*)).tw. OR (development\* adj2 (human\* or child\* or infant\* or adolescent\*)).tw. OR (aging or ageing or longevity).tw. OR ((muscular adj2 atrop\*) or sarcopenia).tw. OR exp Body Weight.sh. OR ((birth or body or fetal or gain or los\* or reduc\* or decreas\* or chang\*) adj2 weight\*).tw. OR (obesit\* or obese or leanness or thinness or underweight or under weight or overweight or over weight).tw. OR (emaciation\* or cachexia).tw. OR Cardiovascular Diseases.sh. OR exp heart diseases.sh. OR exp vascular diseases.sh. OR ((cardio\* or cardia\* or heart\* or vascular\* or ischem\* or ischeam\* or coronary\* or myocardial\* or angina\* or cvd or chd or arrythmi\* or atrial\* or endocardi\* or fibrillate\*) adj2 (diseas\* or attack\* or failure\*)).sh. OR ((vascular\* or thromboembolism\* or thrombosis\*) adj2 (diseas\* or occlusion\* or accident\* or event\*)).tw. OR exp neoplasms[sh] OR (cancer\* or tumor\* or carcinoma\* or neoplasm\*).tw. OR exp Diabetes Mellitus, Type 2.sh. OR exp Insulin Resistance.sh. OR ((typ\* 2 or typ\* ii) adj diabet\*).tw. OR impaired glucose toleranc\*.tw. OR glucose intoleranc\*.tw. OR insulin resistanc\*.tw. OR (MODY or NIDDM or T2DM or DM 2).tw. OR ((non insulin\* or noninsulin\*) adj2 depend\*).tw. OR (non insulin?depend\* or noninsulin?depend\*).tw. OR ((keto restist\* or non keto\* or nonketo\*) adj2 diabet\*).tw. OR ((adult\* or matur\* or late or slow or stabl\*) adj2 diabet\*).tw. OR (insulin defic\* adj2 relativ\*).tw. OR plur?metabolic\* syndrome\*.tw. OR NOT exp diabetes insipidus.sh. OR diabet\* insipidus.tw. OR Interleukin-6.sh. OR exp receptors, interleukin-6.sh. OR c-reactive protein.sh. OR tumor necrosis factor-alpha.sh. Cytokines.sh. OR exp lymphocytes.sh. OR (interleukin 6 or IL 6 or IL6).tw. OR (interleukin\* adj2 (b or hp1)).tw. OR ((plasmacytoma or hybridoma) adj2 growth factor\*).tw. OR (b cell adj2 (differentiat\* or stimulat\*)).tw. OR (hepatocyte adj2 stimulat\*).tw. OR (beta2 or beta 2) adj2 interferon\*).tw. OR (hepatocyte adj2 stimulat\*).tw. OR (b adj lymphocyte\*).tw. OR (BSF?2 or IFN?beta?2 or MGI?2).tw. OR (BSF 2 or IFN beta 2 or MGI 2).tw. OR (myeloid adj3 protein).tw. OR ((26k or 26 k) adj2 protein\*).tw. ((((il6 or il 6) adj soluble\*) or (sil6r or sil 6 r or il6r or il 6 r or interleukin 6 receptor)) adj4 protein\*).tw. OR (hsCRP or CRP).tw. OR cd126.tw. OR(high sensitiv\* adj3 c reactive protein\*).tw. OR cachectin\*.tw. OR (Tnfalpha or tnf alpha\*).tw. OR tumor necrosis\*.tw. OR Tnf superfamily\*.tw. OR (lymphocyte\* or ((lymphoid\* or killer) adj2 cell\*)).tw. OR exp Kidney Diseases.sh. OR exp Renal Circulation.sh. OR (((kidney\* or renal\*) adj2 (calculi or calculus or stone\*)) or nephrolithiasis).tw. OR ((kidney\* or renal\*) adj2 (disease\* or function\*)).tw. OR (renal adj3 (flow\* or circulat\*)).tw. OR exp Muscle Strength.sh. OR Muscle Fatigue.sh. OR exp Physical Endurance.sh. OR exp Exercise.sh. OR Physical fitness.sh. OR exp Motor Activity.sh. OR  ((muscle or muscular) adj2 (strength\* or fatigue\* or weak\*)).tw. OR (physical\* adj2 (fitness or exercise\* or active or activity or endur\*)).tw. OR ((train\* or exercise\*) adj2 endur\*).tw. OR Mortality.sh. OR mortal\*.tw. OR ((fatalit\* or death\*) adj2 rate\*).tw. OR (excess adj2 mortalit\*).tw. OR exp Lactation.sh. OR Milk, human.sh. OR breast feeding.sh. OR lactation\*.tw. OR (milk adj2 (human\* or breast\*)).tw. OR (breast feed\* or breastfeed\*).tw.

## protein (SveMed+)

Explodesökning på Dietary-Proteins  OR Explodesökning på Proteins  ORExplodesökning på Amino-Acids OR Explodesökning på Amino-Acids, Essential  OR Explodesökning på Diet,-Protein-Restricted  OR Explodesökning på Diet,-Vegetarian  OR Explodesökning på Plant-Proteins  OR Explodesökning på Fish-Proteins

AND

Explodesökning på Energy-Intake  OR Explodesökning på Nutritional-Requirements  OR

(intag$ or inntak$ or intake$ or timing$ or regulering$ or reglering$ or juster$ or frequency or hyppig$ or frekven$ or requirement$ or krav$ or utilization$ or utnytt$)