**Additional file 1: Detailed search strategies for PubMed and WoS CC**

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| **PubMed/Medline  (Final screen: 2016/02/29, 2,304 hits)** | **Web of Science Core Collection**  **(Final screen: 2016/02/29, 758 hits)** |
| (  ("Child"[MeSH Terms] OR  "Adolescent"[MeSH Terms] OR  minors[tiab] OR  boy\*[tiab] OR  girl\*[tiab] OR  kid[tiab] OR  kids[tiab] OR  child\*[tiab] OR  schoolchild\*[tiab] OR  adolescen\*[tiab] OR  teen\*[tiab] OR  preteen\*[tiab] OR  underage\*[tiab] OR  under age\*[tiab] OR  pubescen\*[tiab] OR  juvenil\*[tiab] OR  youth\*[tiab])  AND  ("Food and beverages"[MeSH Terms] OR  "diet"[MeSH:noexp] OR  "energy intake"[MeSH Terms] OR  "nutrition assessment"[MeSH Terms] OR  "food habits"[MeSH Terms] OR  "food quality"[MeSH Terms] OR  "Nutritive value"[MeSH Terms] OR  food\*[Title/Abstract] OR  "diet"[Title/Abstract] OR  dietary intake\*[Title/Abstract] OR  energy intake\*[Title/Abstract] OR  energetic intake\*[Title/Abstract] OR  caloric intake\*[Title/Abstract] OR  nutrition intake\*[Title/Abstract] OR  nutritive intake\*[Title/Abstract] OR  nutritional intake\*[Title/Abstract] OR  nutrition assessment\*[Title/Abstract] OR  nutritional assessment\*[Title/Abstract] OR  nutrition survey\*[Title/Abstract] OR  nutritional survey\*[Title/Abstract] OR  nutrition index\*[Title/Abstract] OR  nutritional index\*[Title/Abstract] OR  "nutrition indices"[Title/Abstract] OR  "nutritional indices"[Title/Abstract] OR  nutrition value\*[Title/Abstract] OR  nutritive value\*[Title/Abstract] OR  nutritional value\*[Title/Abstract] OR  nutrition qualit\*[Title/Abstract] OR  nutritive qualit\*[Title/Abstract] OR  nutritional qualit\*[Title/Abstract] OR  dietary pattern\*[Title/Abstract] OR  dietary habit\*[Title/Abstract] OR  eating pattern\*[Title/Abstract] OR  dietary fiber\*[Title/Abstract] OR  dietary carbohydrate\*[Title/Abstract] OR  dietary protein\*[Title/Abstract] OR  dietary fat\*[Title/Abstract])  AND  ("Triglycerides"[Mesh Terms] OR  "Cholesterol"[Mesh Terms] OR  "Insulin"[MeSH Terms] OR  "blood glucose"[MeSH Terms] OR  "insulin resistance"[MeSH Terms] OR  "C-Reactive Protein"[Mesh Terms] OR  “Hemoglobin A, Glycosylated"[Mesh Terms] OR  "Blood Pressure"[Mesh Terms] OR  "Adiponectin"[Mesh Terms] OR  "Leptin"[Mesh Terms] OR  biological marker\*[Title/Abstract] OR  biomarker\*[Title/Abstract] OR  Triglyceride\*[Title/Abstract] OR  Triacylglycer\*[Title/Abstract] OR  "Cholesterol"[Title/Abstract] OR  "Insulin"[Title/Abstract] OR  "blood glucose"[Title/Abstract] OR  “plasma glucose“[Title/Abstract] OR  "serum glucose“[Title/Abstract] OR  "fasting glucose”[Title/Abstract] OR  "HbA1C”[Title/Abstract] OR  "HbA 1C” [Title/Abstract] OR  "Hb A1C” [Title/Abstract] OR  "insulin resistance"[Title/Abstract] OR  “insulin sensitivity"[Title/Abstract] OR  C-Reactive Protein\*[Title/Abstract] OR  “CRP"[Title/Abstract] OR  Glycosylated Hemoglobin\*[Title/Abstract] OR  Glycated Hemoglobin\*[Title/Abstract] OR  “HOMA-IR”[Title/Abstract] OR  "Blood Pressure"[Title/Abstract] OR  "Adiponectin"[Title/Abstract] OR  "Leptin"[Title/Abstract] OR  “ob protein”[Title/Abstract])  AND  (“epidemiologic studies"[Mesh Terms] OR  epidemiologic stud\*[Title/Abstract] OR  epidemiological stud\*[Title/Abstract] OR  cross sectional stud\*[Title/Abstract] OR  cohort stud\*[Title/Abstract] OR  longitudinal stud\*[Title/Abstract] OR  longitudinal survey\*[Title/Abstract] OR  prospective stud\*[Title/Abstract])  )  NOT  ("nutrition therapy"[mh] OR  "pregnancy"[mh] OR  "maternal-fetal relations"[mh] OR  "Pregnant Women"[mh] OR  "therapy"[sh] OR  "Review"[Publication Type]) | TS=(  (  (child\* OR  adolescen\* OR  "minors" OR  boy\* OR  girl\* OR  "kid" OR  "kids" OR  schoolchild\* OR  teen\* OR  preteen\* OR  underage\* OR  "under age\*" OR  pubescen\* OR  juvenil\* OR  youth\*)  AND  (food\* OR  "diet" OR  "dietary intake\*" OR  "energ\* intake\*" OR  "caloric intake\*" OR  "nutriti\* intake\*" OR  "nutriti\* assessment\*" OR  "nutriti\* survey\*" OR  "nutriti\* index\*" OR  "nutriti\* indices" OR  "nutriti\* value\*" OR  "nutriti\* qualit\*" OR  "dietary pattern\*" OR  "dietary habit\*" OR  "eating pattern\*" OR  "dietary fiber\*" OR  "dietary carbohydrate\*" OR  "dietary protein\*" OR  "dietary fat\*")  AND    ("biological marker\*" OR  Biomarker\* OR  Triglyceride\* OR  Triacylglycer\* OR  "Cholesterol" OR  "Insulin" OR  "blood glucose" OR  "plasma glucose" OR  "serum glucose" OR  "fasting glucose" OR  "HbA1C" OR  "HbA 1C" OR  "Hb A1C" OR  "insulin resistance" OR  "insulin sensitivity" OR  "C-Reactive Protein\*" OR  "CRP" OR  "Glycosylated Hemoglobin\*" OR  "Glycated Hemoglobin\*" OR  "HOMA-IR" OR  "Blood Pressure" OR  "Adiponectin" OR  "Leptin" OR  "ob protein")  AND  (adipos\* OR  obes\* OR  "overweight" OR  "body weight" OR  "bodyweight" OR  "body mass index" OR  "bodymass index" OR  "skinfold thickness\*" OR  "waist circumference\*" OR  "waist hip")  AND  ("epidemiologic\* stud\*" OR  "cross sectional stud\*" OR  "cohort stud\*" OR  "longitudinal stud\*" OR  "longitudinal survey\*" OR  "prospective stud\*")  )  NOT  ("nutrition therapy" OR  pregnan\*)  ) |
|  | FILTER reviews |