**Search protocol on October 18nd 2021**

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| PECOS | Search words for PubMed | Number of articles |
| Population | **"Adolescent"[MeSH Terms] OR "Child"[MeSH Terms] OR "child, preschool"[MeSH Terms] OR "Infant"[MeSH Terms]** | **3.745.816** |
| Exposure | **((((((((((((((("Ice Cream"[MeSH Terms] OR "Carbonated Beverages"[MeSH Terms]) OR "Candy"[MeSH Terms]) OR "Snacks"[MeSH Terms]) OR "Fast Foods"[MeSH Terms]) OR "Chocolate"[MeSH Terms]) OR "Feeding Behavior"[MeSH Terms]) OR "diet, cariogenic"[MeSH Terms]) OR "Carbohydrates"[MeSH Terms]) OR "sugar-sweetened beverages"[MeSH Terms]) OR "Bottle Feeding"[MeSH Terms]) OR "Dairy Products"[MeSH Terms]) OR "Bread"[MeSH Terms]) OR "Gelatin"[MeSH Terms]) OR "Meat Products"[MeSH Terms]) OR "diet, food, and nutrition"[MeSH Terms]) OR ((((((((((((((((((((((((((((("sausage"[All Fields] OR "pizza"[All Fields]) OR "cookies"[All Fields]) OR "noodles"[All Fields]) OR "potato chips"[All Fields]) OR "ultra-processed"[All Fields]) OR "ultra-processed"[All Fields]) OR "ultraprocessed food"[All Fields]) OR "ultra processed food"[All Fields]) OR "ultraprocessed foods"[All Fields]) OR "ultra processed foods"[All Fields]) OR "industrialized foods"[All Fields]) OR "sticky foods"[All Fields]) OR "junk food"[All Fields]) OR "dietary patterns"[All Fields]) OR "cocoa powder"[All Fields]) OR "soft drinks"[All Fields]) OR "juice powder"[All Fields]) OR "artificial juice"[All Fields]) OR "instant noodles"[All Fields]) OR "hamburger"[All Fields]) OR ("inlaid"[All Fields] AND ("meat"[MeSH Terms] OR "meat"[All Fields]))) OR "jam"[All Fields]) OR "bologna"[All Fields]) OR "salami"[All Fields]) OR "cake powder"[All Fields]) OR "instant flour"[All Fields]) OR "sugary cereal"[All Fields]) OR ("sugary"[All Fields] AND ((("breakfast"[MeSH Terms] OR "breakfast"[All Fields]) OR "breakfasts"[All Fields]) OR "breakfasting"[All Fields]) AND ((((("cereale"[All Fields] OR "edible grain"[MeSH Terms]) OR ("edible"[All Fields] AND "grain"[All Fields])) OR "edible grain"[All Fields]) OR "cereal"[All Fields]) OR "cereals"[All Fields]))) OR (((((((((((((("industrial development"[MeSH Terms] OR ("industrial"[All Fields] AND "development"[All Fields])) OR "industrial development"[All Fields]) OR "industrialization"[All Fields]) OR "industrialize"[All Fields]) OR "industrialized"[All Fields]) OR "industrializing"[All Fields]) OR "industrially"[All Fields]) OR "industrials"[All Fields]) OR "industry"[MeSH Terms]) OR "industry"[All Fields]) OR "industrial"[All Fields]) OR "industries"[All Fields]) OR "industry s"[All Fields]) AND "cake"[All Fields]))** | 2.717.186 |
| Outcome | **"Dental Caries"[MeSH Terms] OR "DMF Index"[MeSH Terms]** | 50.095 |
| Study design | **"epidemiologic studies "[MeSH Terms] OR "cross-sectional studies"[MeSH Terms] OR "case-control studies "[MeSH Terms]** | 2.790.705 |
| Total = 1.053 |
| PECOS | **Search words for COCHRANE** | **Number of articles** |
| Population | (Adolescent) OR (Child) OR (Infant) OR (Child, preschool) | **279.783** |
| Exposure | (Ice cream) OR (Carbonated beverages) OR (Candy) OR (Snacks) OR (Fast foods) OR (Chocolate) OR (Feeding behavior) OR (Diet, Cariogenic) OR (Carbohydrates) OR (Sugar sweetened beverage) OR (bottle feeding) OR (Dairy Products) OR (bread) OR (Gelatin) OR (Meat Products) OR (Diet, Food, and Nutrition) OR (Sausage) OR (Pizza) OR (Cookies) OR (Noodles) OR (Potato Chips) OR (Ultra-processed) OR (Ultra processed) OR (Ultraprocessed food) OR (Ultra processed food) OR (Ultraprocessed foods) OR (Ultra processed foods) OR (Industrialized foods) OR (Sticky foods) OR (Junk food) OR (Dietary patterns) OR (Cocoa powder) OR (Soft drinks) OR (Juice powder) OR (Artificial juice) OR (Instant noodles) OR (Hamburger) OR (Inlaid meat) OR (Jam) OR (Bologna) OR (Salami) OR (Cake powder) OR (Instant flour) OR (Sugary cereal) OR (Sugary breakfast cereal) OR (Industrialized cake) | **33.095** |
| Outcome | (Dental caries) OR (Dmf index) | **6.322** |
| Study design | Only trials | ---- |
| Total = 163 |
| PECOS | **Search words for WEB OF SCIENCE** | **Number of articles** |
| Population | (Adolescent) OR (Child) OR (Infant) OR (Child, preschool) | **2.296.444** |
| Exposure | (Ice cream) OR (Carbonated beverages) OR (Candy) OR (Snacks) OR (Fast foods) OR (Chocolate) OR (Feeding behavior) OR (Diet, Cariogenic) OR (Carbohydrates) OR (Sugar sweetened beverage) OR (bottle feeding) OR (Dairy Products) OR (bread) OR (Gelatin) OR (Meat Products) OR (Diet, Food, and Nutrition) OR (Sausage) OR (Pizza) OR (Cookies) OR (Noodles) OR (Potato Chips) OR (Ultra-processed) OR (Ultra processed) OR (Ultraprocessed food) OR (Ultra processed food) OR (Ultraprocessed foods) OR (Ultra processed foods) OR (Industrialized foods) OR (Sticky foods) OR (Junk food) OR (Dietary patterns) OR (Cocoa powder) OR (Soft drinks) OR (Juice powder) OR (Artificial juice) OR (Instant noodles) OR (Hamburger) OR (Inlaid meat) OR (Jam) OR (Bologna) OR (Salami) OR (Cake powder) OR (Instant flour) OR (Sugary cereal) OR (Sugary breakfast cereal) OR (Industrialized cake) | **677.867** |
| Outcome | (Dental caries) OR (Dmf index) | **29.827** |
| Study design | (Epidemiologic studies) OR (Non-randomized controlled trial) OR (Randomized controlled trial) OR (Observational study) OR (Cross-sectional studies) OR (Case-control studies) OR (Clinical trial) OR (Multicenter study) OR (Evaluation study) OR (Clinical study) OR (Controlled clinical trial) | **4.040.016** |
|  |  | **Total = 450** |
| PECOS | **Search words for SCOPUS** |  |
| Population | (Adolescent) OR (Child) OR (Infant) OR (Child, preschool) | **5,176,720** |
| Exposure | (Ice cream) OR (Carbonated beverages) OR (Candy) OR (Snacks) OR (Fast foods) OR (Chocolate) OR (Feeding behavior) OR (Diet, Cariogenic) OR (Carbohydrates) OR (Sugar sweetened beverage) OR (bottle feeding) OR (Dairy Products) OR (bread) OR (Gelatin) OR (Meat Products) OR (Diet, Food, and Nutrition) OR (Sausage) OR (Pizza) OR (Cookies) OR (Noodles) OR (Potato Chips) OR (Ultra-processed) OR (Ultra processed) OR (Ultraprocessed food) OR (Ultra processed food) OR (Ultraprocessed foods) OR (Ultra processed foods) OR (Industrialized foods) OR (Sticky foods) OR (Junk food) OR (Dietary patterns) OR (Cocoa powder) OR (Soft drinks) OR (Juice powder) OR (Artificial juice) OR (Instant noodles) OR (Hamburger) OR (Inlaid meat) OR (Jam) OR (Bologna) OR (Salami) OR (Cake powder) OR (Instant flour) OR (Sugary cereal) OR (Sugary breakfast cereal) OR (Industrialized cake) | **938,188** |
| Outcome | (Dental caries) OR (Dmf index) | **76,121** |
| Study design | (Epidemiologic studies) OR (Non-randomized controlled trial) OR (Randomized controlled trial) OR (Observational study) OR (Cross-sectional studies) OR (Case-control studies) OR (Clinical trial) OR (Multicenter study) OR (Evaluation study) OR (Clinical study) OR (Controlled clinical trial) | **9,868,625** |
|  |  | **Total = 1,350** |