

REFINE Search Query  
Food Aid Quality Review Phase III  
September 2016

REFINE maintains a collection of ongoing and published literature for the purpose of enhancing the empirical knowledge base on food-supported interventions. The following delineates the search methods used by REFINE in curating and maintaining the collection of ongoing and published studies.

➤ Avenues used to search for Ongoing Studies

- **RSS Feed: U.S. Clinical Trials Registry (ClinicalTrials.gov), delivered from the following Search Queries**
  - Search parameters
    - Search Terms *250-character limit, currently 209 characters*
      - (malnutrition OR malnourished OR undernutrition OR undernourished OR stunting OR stunted OR wasted OR wasting OR underweight) AND (supplement OR food OR RUF OR RUTF OR LNS OR fortified OR "nutrition program")
    - Eligibility Criteria
      - Child, Adult (not Elderly)
    - Condition *250-character limit, currently 224 characters*
      - NOT (disease OR disorder OR syndrome OR obesity OR overweight OR diabetes OR cancer OR fibrosis OR surgery OR ADHD OR stroke OR schizophrenia OR dysplasia OR hypertension OR autism OR sleep OR encephalopathy OR hemodialysis)
  - Full Search Query for new studies
    - (malnutrition OR malnourished OR undernutrition OR undernourished OR stunting OR stunted OR wasted OR wasting OR underweight) AND (supplement OR food OR RUF OR RUTF OR LNS OR fortified OR "nutrition program") | NOT (disease OR disorder OR syndrome OR obesity OR overweight OR diabetes OR cancer OR fibrosis OR surgery OR ADHD OR stroke OR schizophrenia OR dysplasia OR hypertension OR autism OR sleep OR encephalopathy OR hemodialysis) | Child, Adult | Studies received in the last 14 days
  - Full Search Query for updated studies
    - (malnutrition OR malnourished OR undernutrition OR undernourished OR stunting OR stunted OR wasted OR wasting OR underweight) AND (supplement OR food OR RUF OR RUTF OR LNS OR fortified OR "nutrition program") | NOT (disease OR disorder OR syndrome OR obesity OR overweight OR diabetes OR cancer OR fibrosis OR surgery OR ADHD OR stroke OR schizophrenia OR dysplasia OR hypertension OR autism OR sleep OR encephalopathy OR hemodialysis) | Child, Adult | Studies updated in the last 14 days
- **RSS Feed: E.U. Clinical Trials Registry**

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- Search Parameters
  - Search Terms *no character limit*
    - (malnutrition OR malnourished OR undernutrition OR undernourished OR stunting OR stunted OR wasted OR wasting OR underweight) AND (supplement OR food OR RUF OR RUTF OR LNS OR fortified OR "nutrition program")
- **Manual Search: International Standard Registered Clinical/soCial sTudy Number**
  - Search Terms *no character limit*
    - (malnutrition OR malnourished OR undernutrition OR undernourished OR stunting OR stunted OR wasted OR wasting OR underweight) AND (supplement OR food OR RUF OR RUTF OR LNS OR fortified OR "nutrition program")
- **Manual Search: WHO International Clinical Trials Registry Platform**
  - Search Terms<sup>1</sup>
    - maln\* AND supplement\* OR maln\* AND food\* OR maln\* AND RUF OR maln\* AND RUTF OR maln\* AND LNS OR maln\* AND fortif\* OR undern\* AND supplement\* OR undern\* AND food\* OR undern\* AND RUF OR undern\* AND RUTF OR undern\* AND LNS OR undern\* AND fortif\* OR stunt\* AND supplement\* OR stunt\* AND food\* OR stunt\* AND RUF OR stunt\* AND RUTF OR stunt\* AND LNS OR stunt\* AND fortif\* OR wast\* AND supplement\* OR wast\* AND food\* OR wast\* AND RUF OR wast\* AND RUTF OR wast\* AND LNS OR wast\* AND fortif\* OR underweight AND supplement\* OR underweight AND food\* OR underweight AND RUF OR underweight AND RUTF OR underweight AND LNS OR underweight AND fortif\*
  - Date of Registration
    - No fixed setting, but can be adjusted to search from the last date a search was performed
- **Manual Search: Pan African Clinical Trials Registry**
  - Search Terms
    - malnutrition malnourished undernutrition undernourished stunting stunted wasted wasting underweight supplement food RUF RUTF LNS fortified nutrition program

➤ Avenues used to search for Published Studies

- **Web of Science (RSS feed)**
  - Base Search (concept of food aid)
    - TS=((food OR nutrition\*) NEAR/1 (aid OR aide OR assistance OR program\* OR ration\* OR supplement\* OR intervention\*)) OR

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<sup>1</sup> Allows truncation

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TS=((therapeutic OR supplement\*) NEAR/2 (food OR feed\*)) OR  
TS=(fortif\* OR micronutrient\*)

- AND (concept of malnutrition)
  - TS=((severe\* OR moderate\*) NEAR/1 acute AND (malnutrition\* OR malnourish\*)) OR TS=(acute NEAR/1 (malnutrition\* OR malnourish\*)) OR TS=(wast\* OR stunt\*)
- AND (relevant population)
  - TS=(infant\* OR child\* OR women OR woman OR mother\* OR adolescent OR fetal OR neonat\* OR community)
- NOT (irrelevant population)
  - TS=(elderly OR older adults OR older person\* OR \*dialysis OR nursing home\* OR geriatr\*)

➤ Avenues used to screen for inclusion in REFINE

Studies that populate from the above parameters are then screened further for inclusion in the REFINE roster or addition to the REFINE library by the following criteria:

- Conditions
  - Subjects can be malnourished or healthy, so there is no restriction in this category
- Interventions
  - A suitable intervention asks, “Does this intervention employ or investigate a nutritionally-enhanced food aid product or an ingredient intended for use in a nutritionally-enhanced food aid product in order to prevent or treat the potential causes or outcomes of undernutrition?”
  - These include, but are not limited to: fortified rice, MNP used in conjunction or in comparison to a food supplement, Fe or Zn if added to a food or porridge, different chemical formulations of iron, and more.
  - These exclude biofortified crops.
- Outcome Measures
  - Eligible studies report outcome measures including cognitive abilities, developmental measures, birth weight, head circumference, weight gain, height gain, weight-for-age, weight-for-age z-score, height-for-age, heights-for-age z-score, weight-for-height/length, weight-for-height/length z-score, mid-upper arm circumference, lean body mass, “recovery” from malnutrition<sup>2</sup>, mortality, default from the program, nutritional intake, cognitive abilities, and product acceptability.
  - Studies investigating the intergenerational effects of an intervention are considered if outcomes measures include designated outcomes for either the immediate participants or their offspring.

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<sup>2</sup> As defined by the study investigators