Supplementary Material

Literature search strategy:

Search #1: ((("end stage liver disease"[MeSH Terms] OR "end stage liver disease"[tiab]) OR ("cholestasis"[MeSH Terms] OR "cholestasis"[tiab])) OR ("liver failure"[MeSH Terms] OR "liver failure"[tiab])) OR "Chronic liver disease"[tiab]

Search #2: ("nutrition assessment"[MeSH Terms] OR "nutrition assessment"[tiab] OR "nutritional assessment"[tiab]) OR ("nutrition disorders"[MeSH Terms] OR "nutrition disorders"[tiab]) OR ("nutritional status"[MeSH Terms] OR "nutritional status"[tiab]) OR ("nutrition surveys"[MeSH Terms] OR "nutrition surveys"[tiab]) OR ("body composition"[MeSH Terms] OR "body composition"[tiab]) OR ("anthropometry"[MeSH Terms] OR "anthropometry"[tiab]) OR ("sarcopenia"[MeSH Terms] OR "sarcopenia"[tiab]) OR ("malnutrition"[MeSH Terms] OR "malnutrition"[tiab]) OR ("frailty"[MeSH Terms] OR "frailty"[tiab]) OR ("growth and development"[Subheading] OR "growth and development"[tiab] OR "growth"[MeSH Terms]) OR Anthropometrics[tiab] OR "mid arm circumference"[tiab] OR "triceps skinfold"[tiab] OR ("skinfold thickness"[MeSH Terms] OR "skinfold thickness"[tiab]) OR ("micronutrients"[Pharmacological Action] OR "micronutrients"[MeSH Terms] OR "micronutrients"[tiab]) OR ("fat soluble"[tiab] AND ("vitamins"[Pharmacological Action] OR "vitamins"[MeSH Terms] OR "vitamins"[tiab] OR "vitamin"[tiab]))

Search #3: #1 AND #2

Search #4: #3 AND ("infant"[MeSH Terms] OR "infant"[tiab]) OR ("child"[MeSH Terms] OR "child"[tiab]) OR ("adolescent"[MeSH Terms] OR "adolescent"[tiab]) OR ("pediatrics"[MeSH Terms] OR "pediatrics"[tiab] OR "pediatric"[tiab])

**Specific pubmed search for Nutrition and Liver Transplant**

**Search #1:**

 (("liver transplantation"[MeSH Terms] OR ("liver"[All Fields] AND "transplantation"[All Fields]) OR "liver transplantation"[All Fields] OR ("liver"[All Fields] AND "transplant"[All Fields]) OR "liver transplant"[All Fields]) AND ("nutritional status"[MeSH Terms] OR ("nutritional"[All Fields] AND "status"[All Fields]) OR "nutritional status"[All Fields] OR "nutrition"[All Fields] OR "nutritional sciences"[MeSH Terms] OR ("nutritional"[All Fields] AND "sciences"[All Fields]) OR "nutritional sciences"[All Fields])) AND ((Review[ptyp] OR Clinical Trial[ptyp] OR Meta-Analysis[ptyp] OR Randomized Controlled Trial[ptyp]) AND "2013/01/21"[PDat] : "2018/01/19"[PDat] AND English[lang] AND ("infant"[MeSH Terms] OR ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms])))

As the above-mentioned search strategy did not show any RCTs focused on nutrition as intervention and liver transplant as primary outcome, an additional search was performed for RCTs with unlimited date and only age limits applied (up to 18 yoa) using following search terms:

**Search #2:**

 (("nutritional status"[MeSH Terms] OR ("nutritional"[All Fields] AND "status"[All Fields]) OR "nutritional status"[All Fields] OR "nutrition"[All Fields] OR "nutritional sciences"[MeSH Terms] OR ("nutritional"[All Fields] AND "sciences"[All Fields]) OR "nutritional sciences"[All Fields]) AND ("liver"[MeSH Terms] OR "liver"[All Fields]) AND ("transplants"[MeSH Terms] OR "transplants"[All Fields] OR "transplant"[All Fields] OR "transplantation"[MeSH Terms] OR "transplantation"[All Fields])) AND (Randomized Controlled Trial[ptyp] AND ("infant"[MeSH Terms] OR "child"[MeSH Terms] OR "adolescent"[MeSH Terms]))