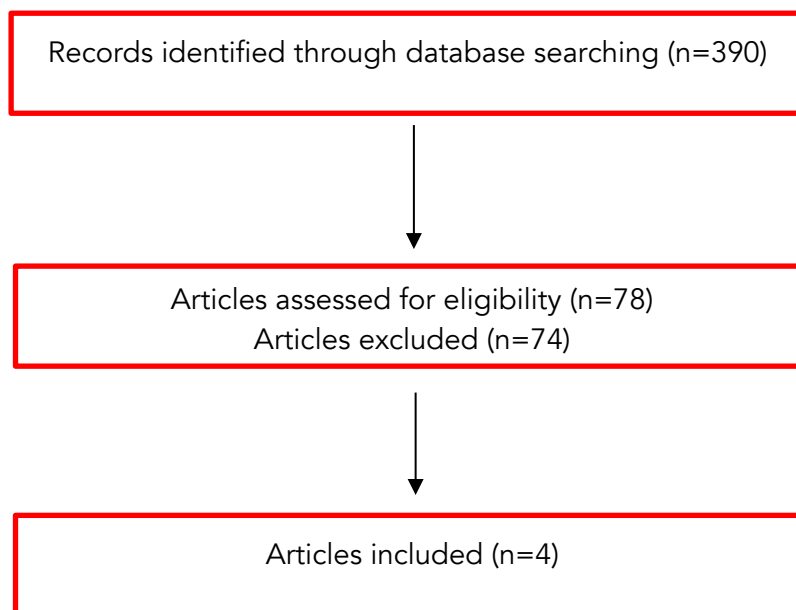


Fig. S1. Search terms and PRISMA flowchart used for each clinical question (CQ).

- Comprehensive literature searches were conducted using PubMed, Cochrane Library and Embase databases.
- All randomised controlled trials, systematic review, meta-analyses, observational studies and guidelines are included.
- Studies on paediatric patients and home parenteral nutrition are excluded.

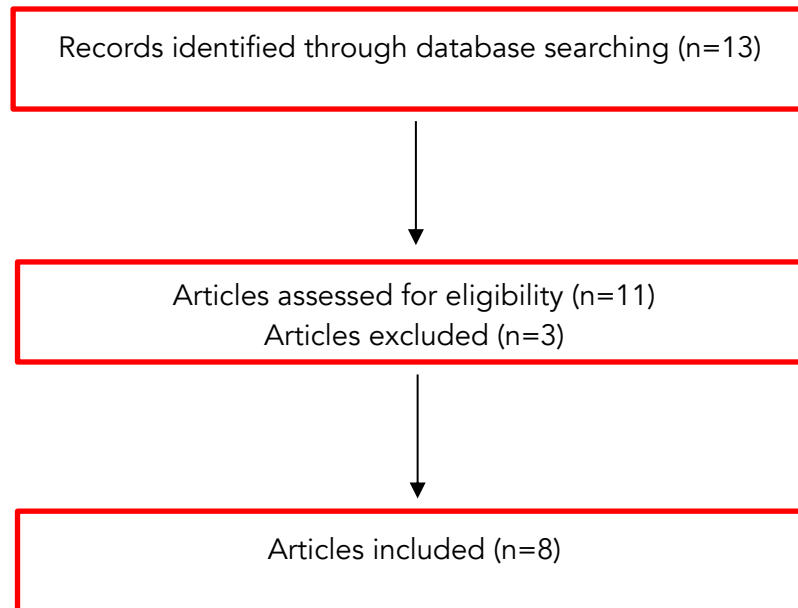
CQ1: What are the indications of parenteral nutrition?

Search terms: "parenteral nutrition", "clinical indications"



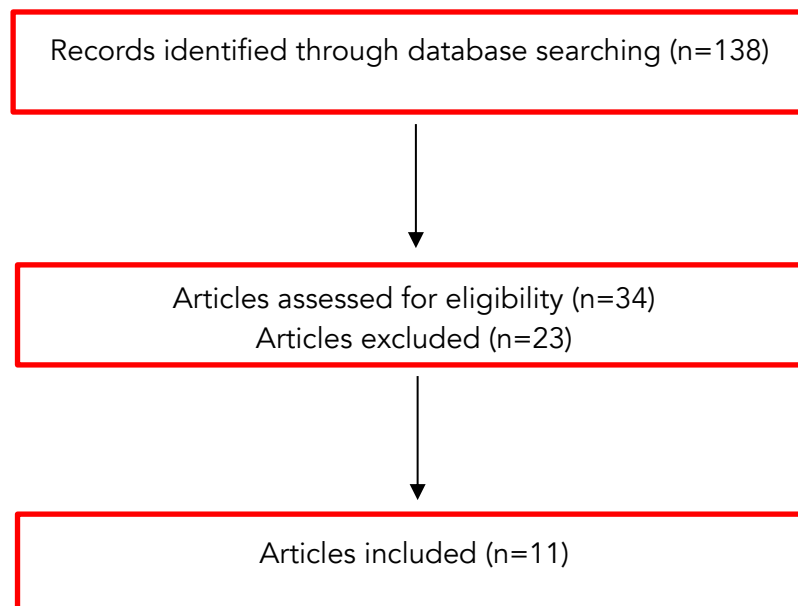
CQ2: When should parenteral nutrition be initiated?

Search terms: "parenteral nutrition", "timing", "initiation"



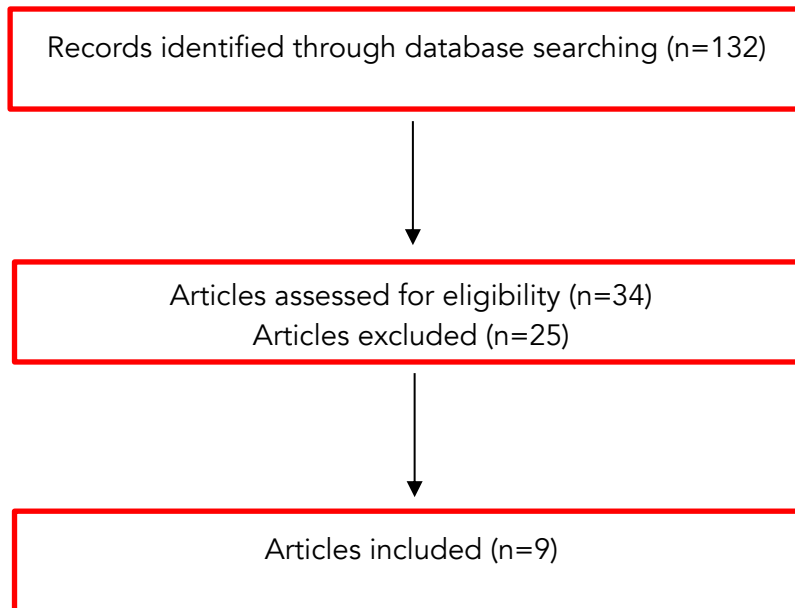
CQ3: What are the contraindications of parenteral nutrition?

Search terms: "parenteral nutrition", "contraindications"



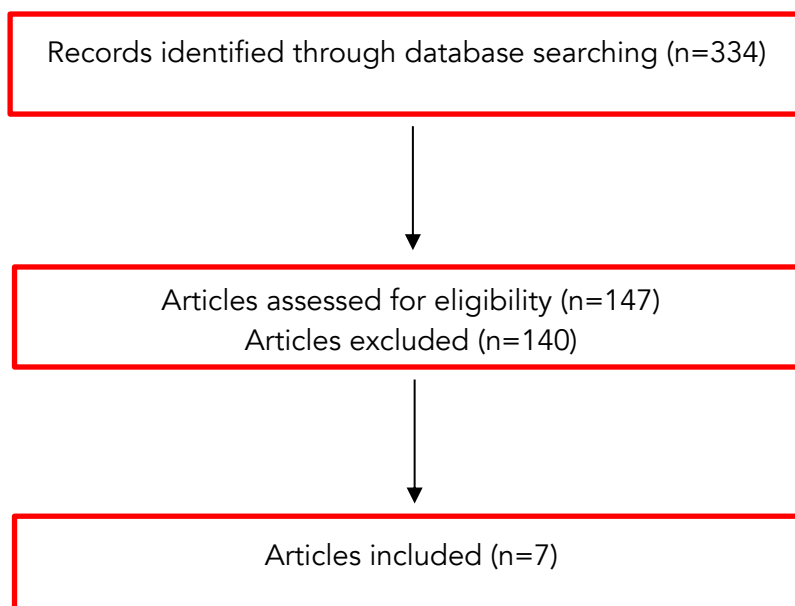
CQ4: Who should assess and manage patients prescribed with parenteral nutrition?

Search terms: "parenteral nutrition", "multidisciplinary team", "nutrition support team"



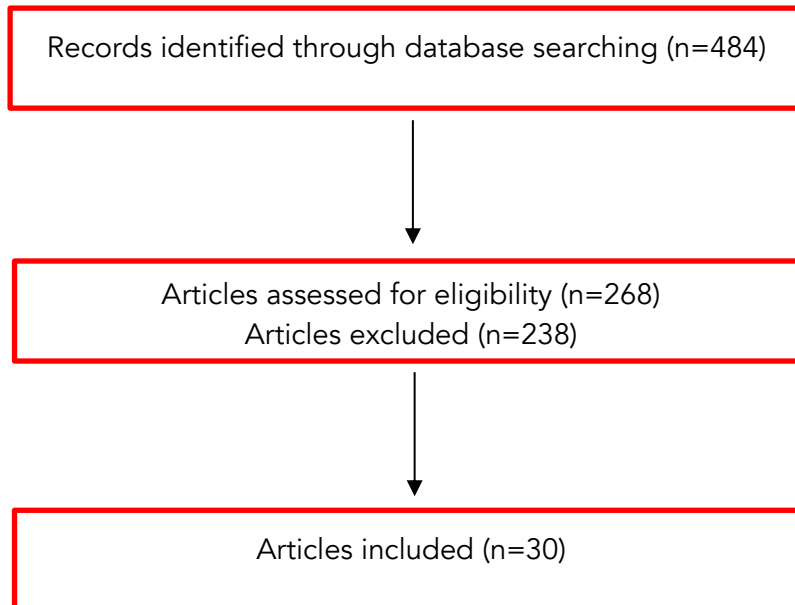
CQ5: How often should biochemical parameters be assessed for patients on parenteral nutrition?

Search terms: "parenteral nutrition", "biochemical monitoring", "laboratory tests", "electrolyte levels", "assessment interval", "monitoring frequency"



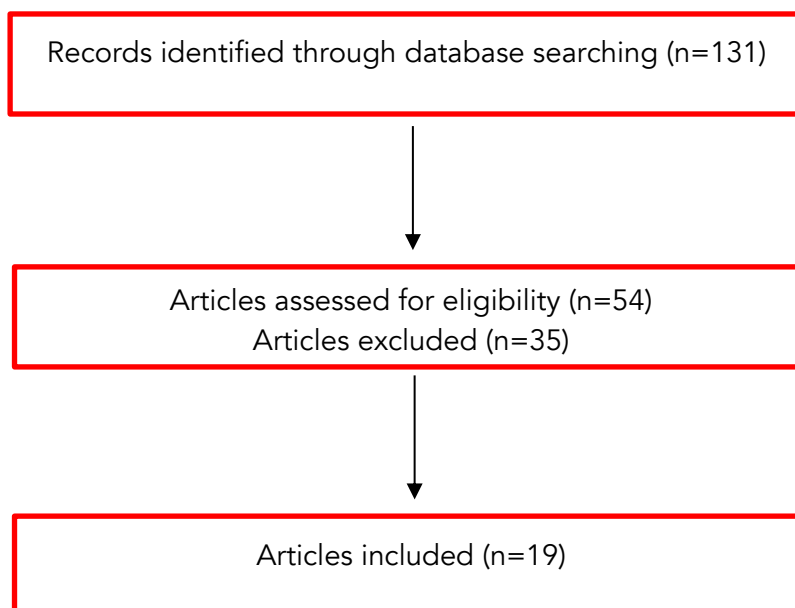
CQ6: How is calorie requirement for patients on PN determined?

Search terms: "parenteral nutrition", "calorie requirement", "nutritional requirement", "resting energy expenditure", "total energy expenditure", "basal metabolic rate"



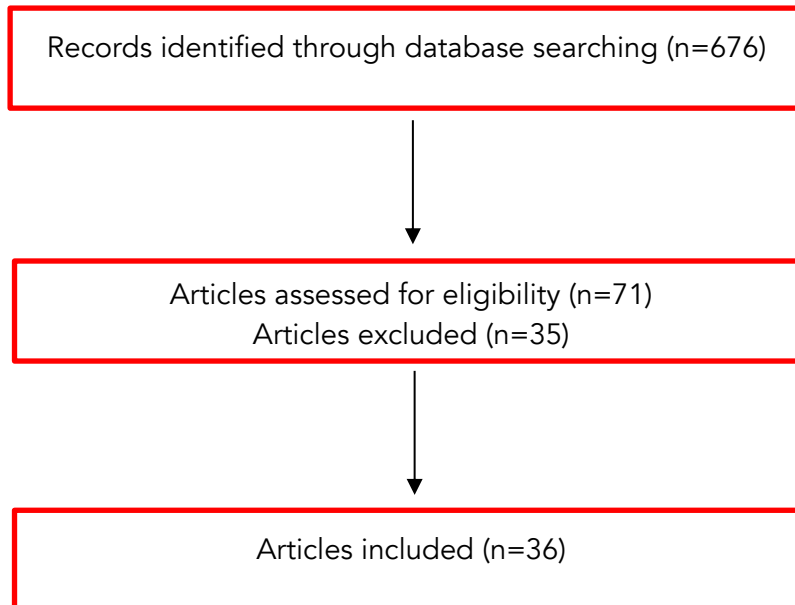
CQ7: Which nutritional assessment tool should be used for patients requiring PN?

Search terms: "parenteral nutrition", "nutritional assessment"



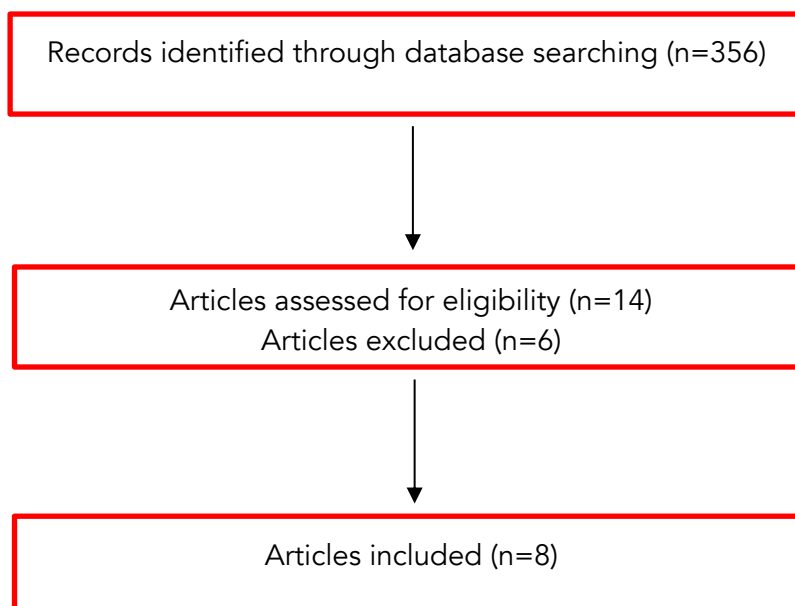
CQ8: How fast should PN be introduced and progressed?

Search terms: "parenteral nutrition", "initiation", "progression", "rate of progression", "titration", "gradual", "permissive underfeeding", "hypocaloric nutrition"



CQ9: When should PN be discontinued?

Search terms: "parenteral nutrition", "discontinuation", "cessation", "stopping", "weaning", "wean off", "transition"



CQ10: What is the recommended type of lipid emulsion used to compound PN?

Search terms: "parenteral nutrition", "lipid emulsion"

Records identified through database searching (n=1333)



Articles assessed for eligibility (n=414)
Articles excluded (n=382)



Articles included (n=32)

CQ11: Should multivitamin and trace elements be added in PN bags?

Search terms: "parenteral nutrition", "vitamin", "multivitamin", "trace elements"

Records identified through database searching (n=783)



Articles assessed for eligibility (n=158)
Articles excluded (n=142)



Articles included (n=16)

CQ12: Under what circumstances would additional vitamin or mineral supplementation be required?

Search terms: "parenteral nutrition", "additional vitamin", "additional mineral", "supplementation", "vitamin C", "zinc"

Records identified through database searching (n=629)



Articles assessed for eligibility (n=87)
Articles excluded (n=61)



Articles included (n=26)

CQ13: Are there benefits in adding glutamine in PN bags?

Search terms: "parenteral nutrition", "glutamine"

Records identified through database searching (n=819)



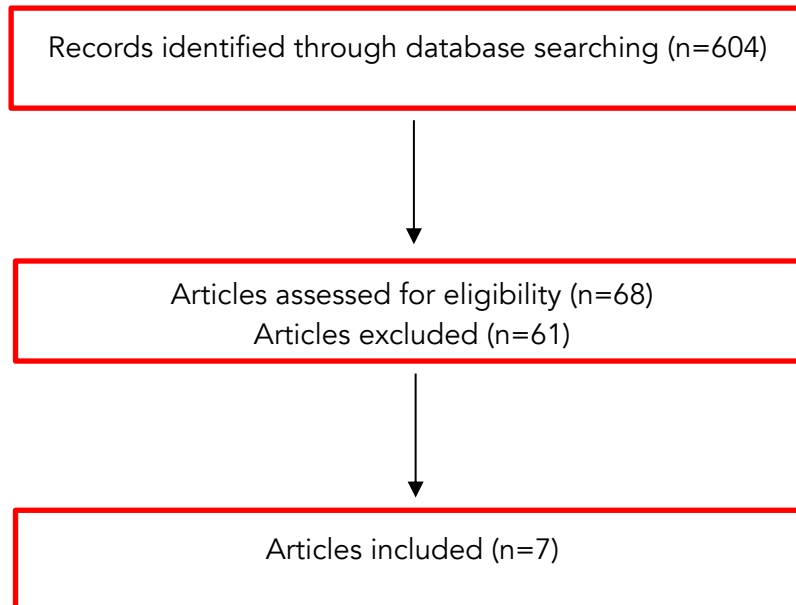
Articles assessed for eligibility (n=134)
Articles excluded (n=107)



Articles included (n=27)

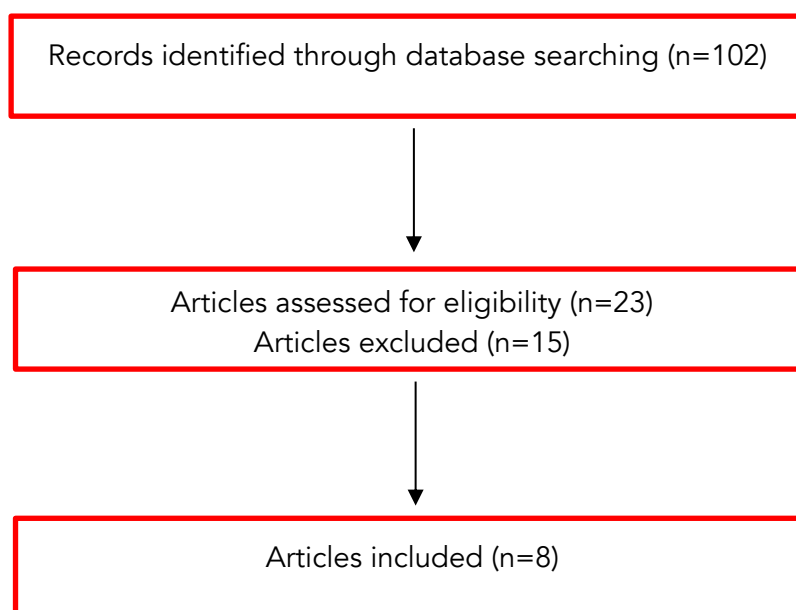
CQ14: What types of venous access device should be used for PN?

Search terms: "parenteral nutrition", "venous access device"



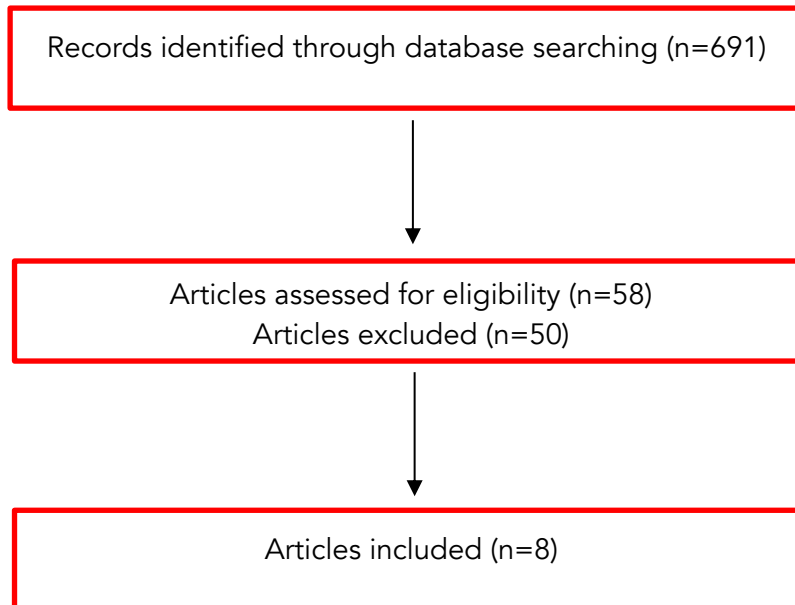
CQ15: How should the patency of CVADs be maintained?

Search terms: "parenteral nutrition", "central venous access device", "patency", "saline flush", "heparin flush"



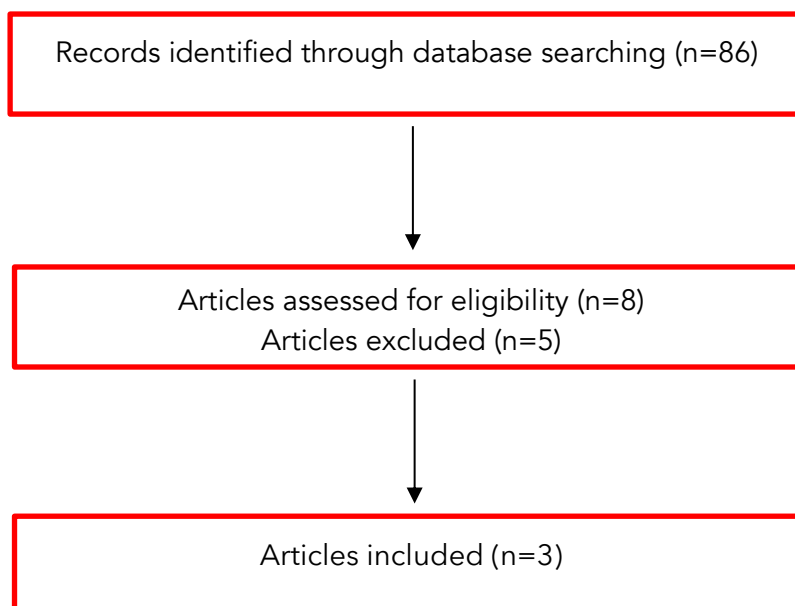
CQ16: Under what circumstances should peripheral PN (PPN) be considered?

Search terms: "peripheral parenteral nutrition", "indication"



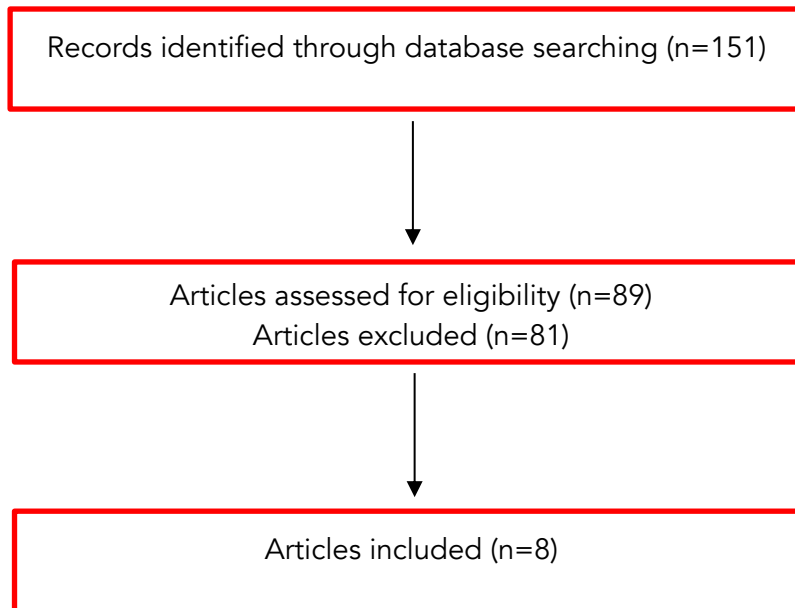
CQ17: What osmolarity of PN admixture is safe for peripheral venous use?

Search terms: "peripheral parenteral nutrition", "osmolarity"



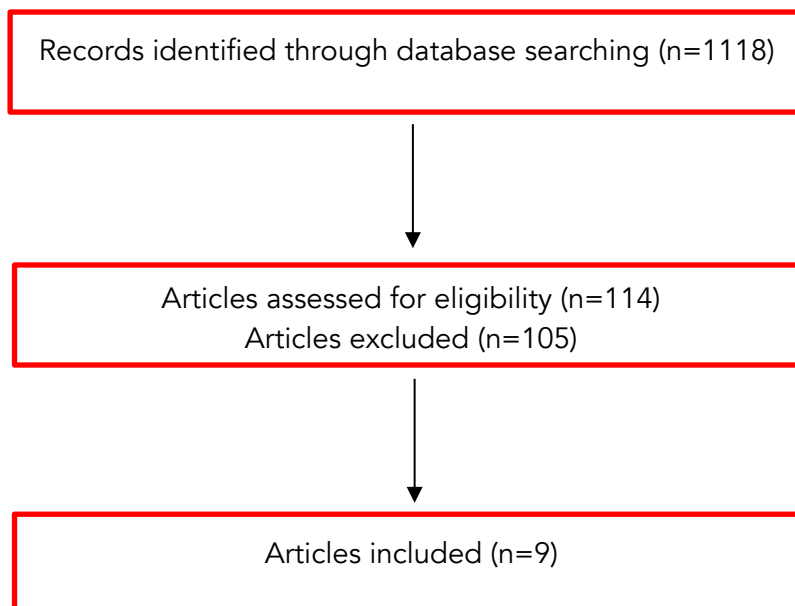
CQ18: How should patients at risk of refeeding syndrome be managed?

Search terms: "parenteral nutrition", "refeeding syndrome"



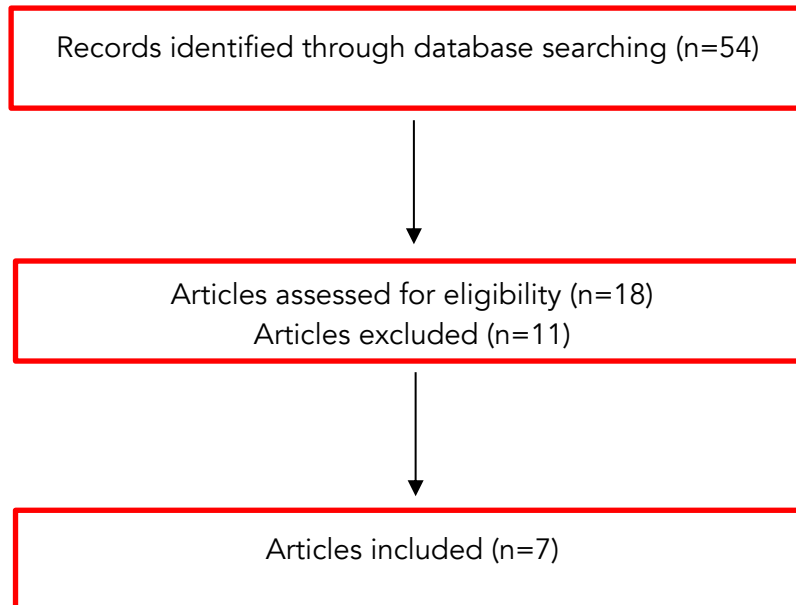
CQ19: How often should blood glucose be monitored?

Search terms: "parenteral nutrition", "glucose", "blood glucose", "monitoring"



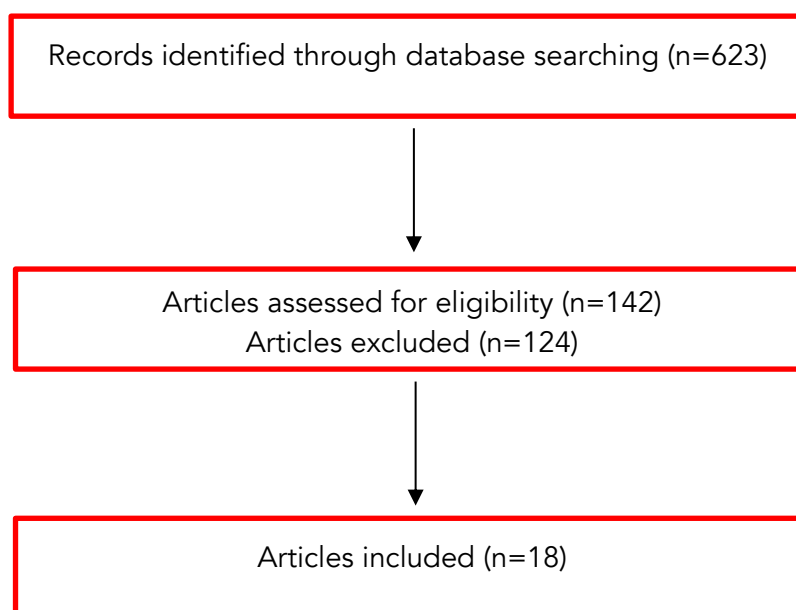
CQ20: What is the target blood glucose range?

Search terms: "parenteral nutrition", "glucose", "blood glucose", "target range", "glycaemic control"



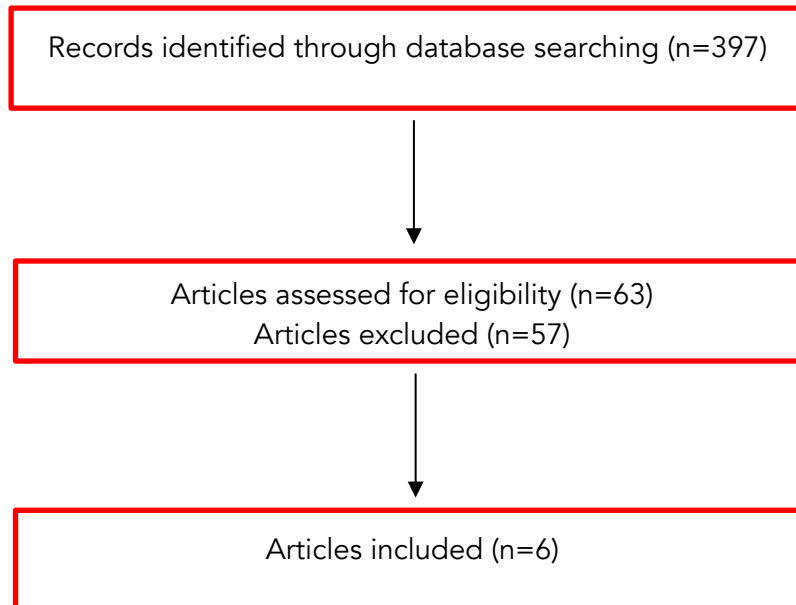
CQ21: Should insulin be added to PN bags?

Search terms: "parenteral nutrition", "insulin"



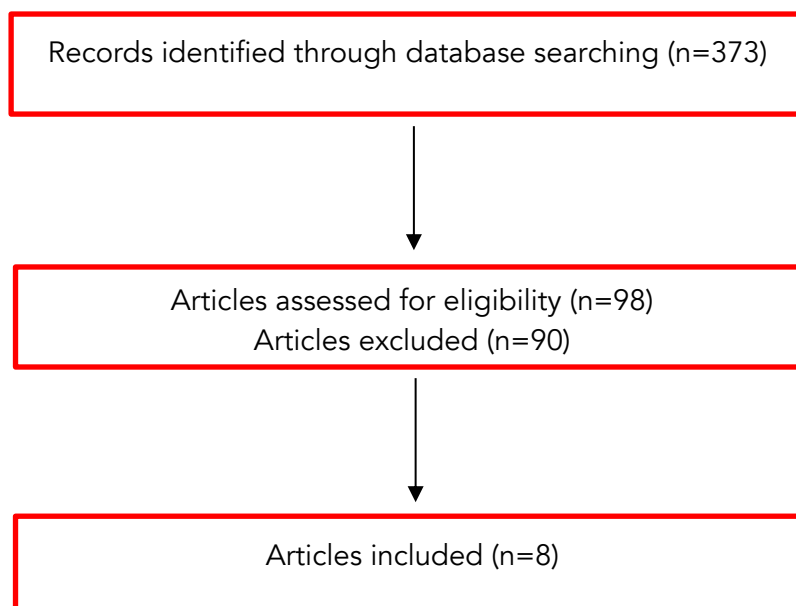
CQ22: How often should liver function tests (LFTs) be monitored?

Search terms: "parenteral nutrition", "liver function tests", "monitoring interval", "monitoring frequency"



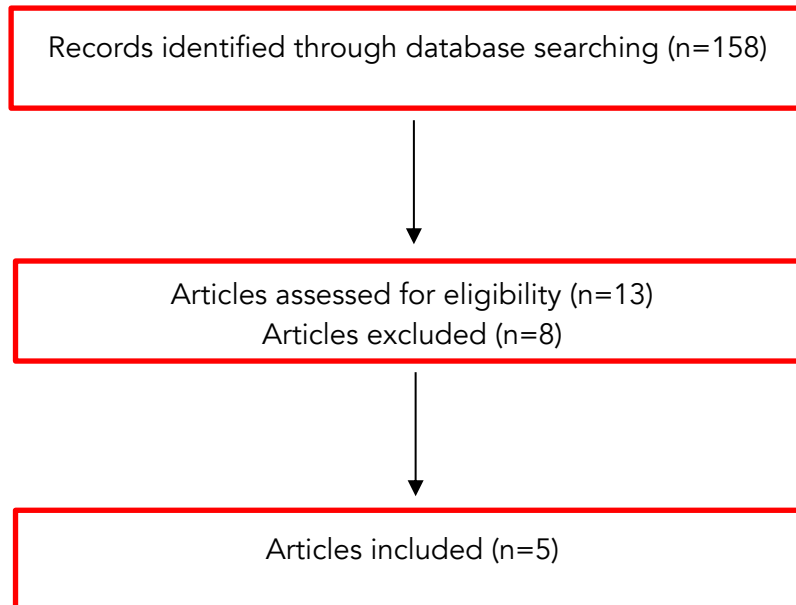
CQ23: How should deranged LFTs be managed?

Search terms: "parenteral nutrition", "liver function tests derangement", "abnormal liver function tests"



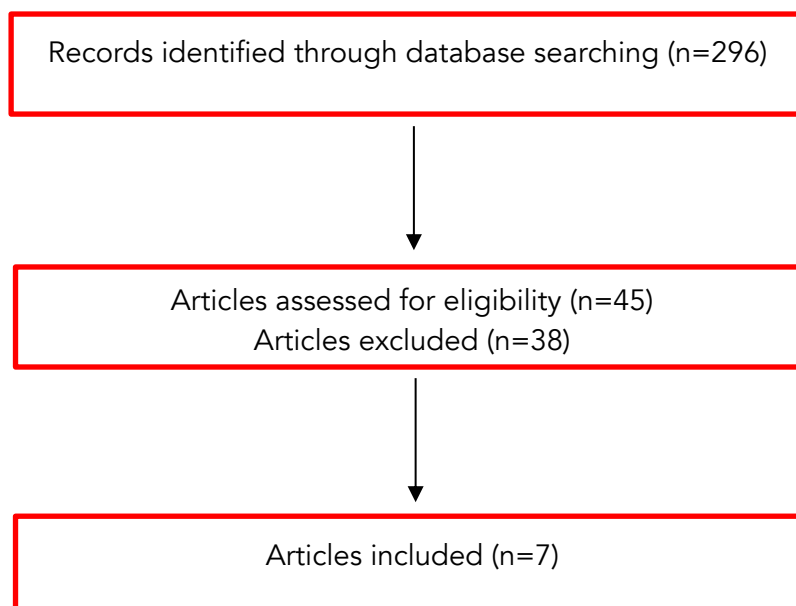
CQ24: How should PN transition from continuous to cyclical infusion?

Search terms: "parenteral nutrition", "continuous to cyclical infusion", "transition"



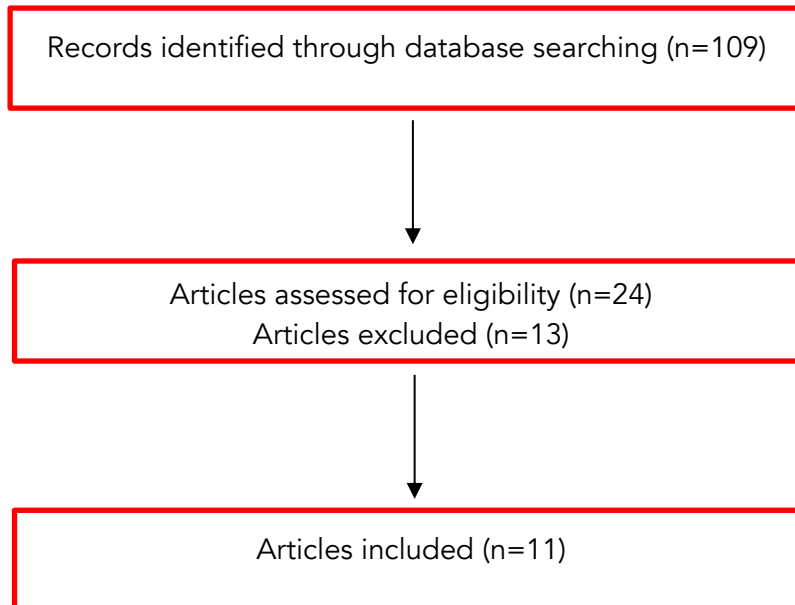
CQ25: What is the target serum triglyceride level?

Search terms: "parenteral nutrition", "triglyceride", "serum triglyceride"



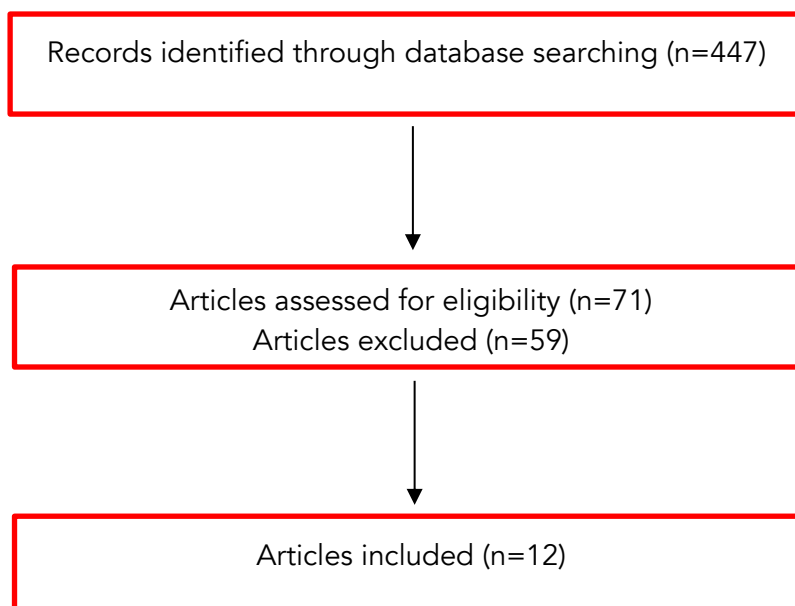
CQ26: How should hypertriglyceridemia be managed?

Search terms: "parenteral nutrition", "hypertriglyceridemia", "hypertriglyceridaemia"



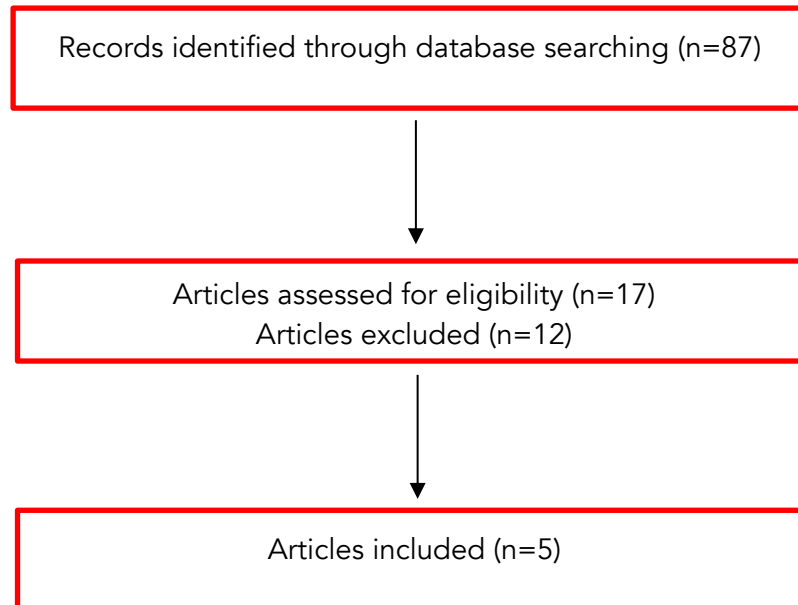
CQ27: How should catheter-related thrombosis be managed?

Search terms: "parenteral nutrition", "catheter-related thrombosis"



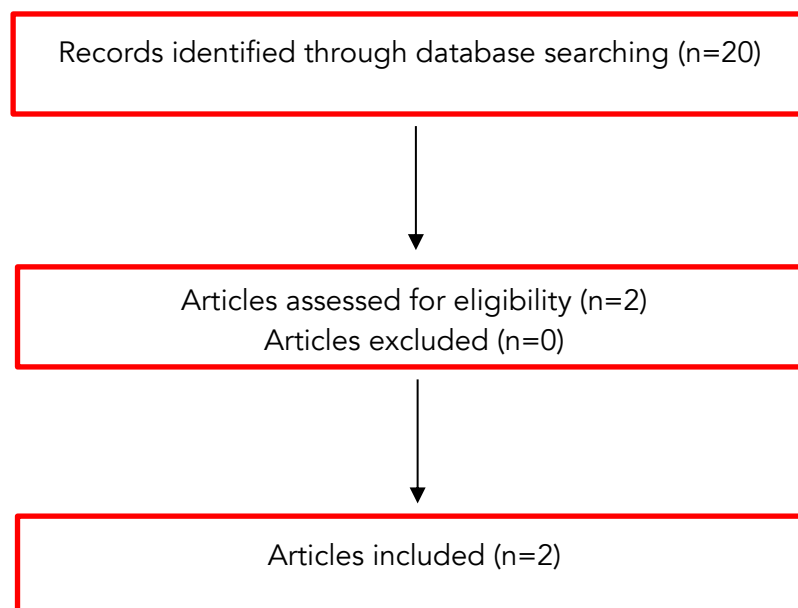
CQ28: How should catheter-related blood stream infection be managed?

Search terms: "parenteral nutrition", "catheter-related blood stream infection"



CQ29: Should PN be withheld when patient undergoes surgery?

Search terms: "parenteral nutrition", "surgery", "termination", "operation theatre"



CQ30: Is tapering of PN and dextrose drip necessary after termination of PN?

Search terms: "parenteral nutrition", "termination", "discontinuing", "tapering", "dextrose"

Records identified through database searching (n=24)



Articles assessed for eligibility (n=18)
Articles excluded (n=13)



Articles included (n=5)