Databases searched:	🖾 CINAHL (Ebsco)	⊠ Medline (Ebsco)	🛛 Pubmed (NLM)	Nursing (Ovid)	Emcare (Ovid)		
Keywords used:	Chylothorax, cardiac, paediatric						
Search limits:	English, full text, human, all child						

Reference (include title, author, journal title, year of publication, volume and issue, pages)	Evidence level (I-VII)	Key findings, outcomes or recommendations	
Ascenzi, J.A (2007). Update on Complications of Pediatric Cardiac Surgery. Critical care nursing clinics of North America. 15 (9), 361 – 369.	I	 Case study for chylothorax management (6-month-old male post TOF repair): Observation of increased and persistent yellow serosanguinous fluid drainage at a rate of 1-2µL/kg/hr on postoperative day 1. Commenced on clear liquid diet. On postoperative day 2, diet advanced to include formula and cloudy white drainage noted. Drain specimen sent for suspected chylothorax. Detection of markedly increased triglycerides, chylothorax confirmed. Commencement of fat-free formula (Tolorex) & diuretics Not resolved by day 7, nil by mouth and TPN & lipids Ocreotide infusion (8µg/kg/hr) commenced for an additional 48 hours Drains removed on postoperative day 13 Discharged home on postoperative day 16 and continued on the low-fat diet for one week 	
Bulut, O et al. (2005). Treatment of chylothorax developed after Congenital Heart Disease surgery: a case report. <i>North Clin Istanbul</i> . 2(3): 227-230.	VI	 Diagnostic criteria for chylothorax diagnosis: Milk-like drainage Sterile culture TAG > 110mg/dL Lymphocytes > 1000cells/μL & ratio > 80% Chylothorax Treatment: Drainage of fluid Cease enteral nutrition TPN and MCT formula Surgery (Ligation / pleurodesis) Ocreotide 	

Biewer, E.S et al. (2010). Chylothrorax after surgery on congenital heart disease in newborns and infants – Risk factors and efficacy of MCT-diet. <i>Journal of Cardiothoracic Surgery</i> . 5(127), 1-7.	V	 Application of MCT diet alone was effective in 71% of patients Application of MCT diet alone was effective in 71% of patients More invasive treatments like TPN and lipids should not be used After resolution of chylothorax, MCT-diet can be converted to regular milk formula within one week and with very low risk of relapse 	
Bulut, O et al. (2005). Treatment of chylothorax developed after Congenital Heart Disease surgery: a case report. <i>North Clin</i> <i>Istanbul.</i> 2(3): 227-230.	VI	 Diagnostic criteria for chylothorax diagnosis: Milk-like drainage Sterile culture TAG > 110mg/dL Lymphocytes > 1000cells/μL & ratio > 80% Chylothorax Treatment: Drainage of fluid Cease enteral nutrition TPN and MCT formula Surgery (Ligation / pleurodesis) Ocreotide 	





