CONSIDERATIONS:

1. Does prescribed therapy require central venous infusion:
   - Continuous vesicant chemotherapy (osmolarity > 500mOsm/L)
   - Hypertonic extremes of pH (pH < 5 or > 9)
   - TPN with >10% dextrose or >5% protein

2. Expected therapy duration

3. Medical history

4. Vein status

5. Weight

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**0-6 days**

- Therapy requires central venous infusion
  - Therapy suitable for peripheral infusion
  - CVC
  - If no visible IV sites call for early anaesthetic assessment
  - Short term peripheral IV cannula

**6-14 days**

- Therapy suitable for peripheral infusion
- Ultrasound (US) guided midline catheter if appropriate vein available and child >8yo and not going home
- Or CVC

- CF tune-up
- Age <2yo = CVC
  - Or age <8yo = PICC
  - Or age >8yo = midline in mid upper arm if can tolerate awake/N2O & PICC if needs GA or going to HITH >1 hour away

**10 days - 2 months**

- Therapy requires central venous infusion
- CVC
- If treatment duration is 2-3 weeks

- CVC
  - PICCs are rarely inserted for treatment duration <10 days
  - [PICCs are rarely inserted for treatment duration <10 days]

- Age >2yo = PICC line
  - Or age <2yo, <15kg = anaesthetic non cuffed tunnelled CVC
  - Or consider surgical cuffed tunnelled line

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A PICC is a long peripherally inserted catheter with the tip in the lower SVC
A midline catheter is an 8 or 12 cm catheter inserted in the upper arm with the tip located just below the axilla
An extended dwell catheter is a 5cm catheter inserted in an arm or leg
An anaesthetic non cuffed tunnelled CVC is inserted into the IJV/SCV junction and tunnelled onto the chest wall

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Therapy requires central venous infusion (see above): needs CVC, PICC, HICKMAN®, BROVIAC® or Port/Port-A-Cath
Therapy OK for peripheral infusion: periph. IV or extended dwell

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Note on PICCs
PICC lines have a high insertion and post insertion failure rate in children <2yo and <15kg and are not recommended

Note on midlines
Midlines are more likely to occlude or dislodge than PICCs so not recommended <8yo or if patient going home to HITH

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Refer also to Clinical Practice Guidelines:
Choosing an appropriate venous access device and Venous access guidelines for cystic fibrosis tune-ups