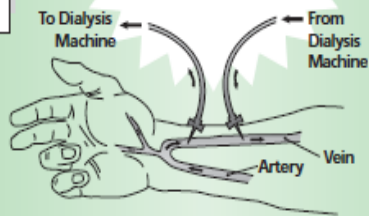


Vascular Access for Hemodialysis



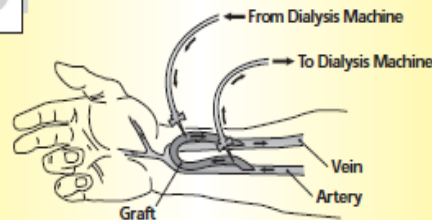
FISTULA

**BEST
CHOICE**



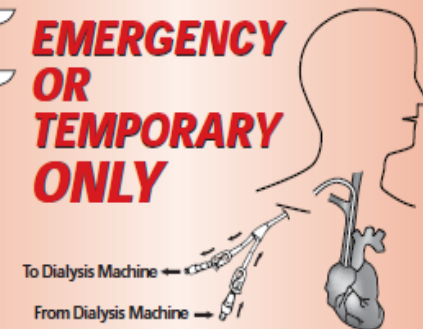
GRAFT

**ALTERNATE
CHOICE**



CATHETER

**EMERGENCY
OR
TEMPORARY
ONLY**



PLACEMENT OPTIONS

- Forearm
- Upper arm
- Thigh

- Forearm
- Upper Arm
- Thigh
- Chest
- Straight or Loop

- Neck (jugular vein)
- Groin (femoral vein)
- Chest (subclavian vein) *should be avoided*

ADVANTAGES

- + Lasts many years
- + Less chance of infection
- + Higher blood flow rates
- + Fewer complications

- + Can be used in two weeks after placement
- + Can be used when a fistula does not work
- + Can be used for patients with special health issues

- + Can be used in an emergency (must have chest x-ray for placement prior to initial use)
- + Can be used while other access types are maturing

DISADVANTAGES

- Takes the longest to mature (develop)
- May fail to mature, due to other health issues

- Clotting
- Infection
- Swelling
- Frequent interventions required
- May affect blood flow to the hand (Steal Syndrome)

- Clotting
- Infection
- Lower blood flow rates
- Vessel damage
- Designed for short-term use only