

KEY:
TYPE OF ACCESS
 PIV -- Peripheral IV
 PICC --Peripherally Inserted Central Catheter
 CVC – Non-tunneled, central venous catheter
 TUN -- Tunneled CVC
 PORT--Implanted CVC
 *IRRITATING MEDICATIONS AND VESICANTS –see list
 *ESRD – End stage renal disease

Vascular Access Device Selection Criteria Suggested Choices (Decision Tree)

NON-EMERGENT USE, REASSESS DAILY
 FOR MULTIPLE ACCESS NEEDS, SELECT A MULTILUMEN
 CATHETER

Infusion Therapy

- < 10% Dextrose
- Isotonic Solutions
- Osmolarity <500mOsm/L
- Medication-pH 5.0-9.0
- Central access not required

- >10% Dextrose
- Osmolarity > 500mOsm/L
- Medication-pH <5.0 or>9.0*
- See list-Irritating Medications
- Central access required

Duration of Therapy

Vascular Integrity

< 7 DAYS

GOOD

PIV

PICC

POOR

PICC

CVC

1-4 WEEKS

PICC

CVC

TUN

< 3 MONTHS

PICC

TUN

> 3 MONTHS

PICC

TUN

PORT

CATHETER CHOICE
 (In order of preference)

PICC lines contraindicated for ESRD*, Quadriplegia, Bilat radical mastectomy