

Lovlace Westside
Vascular Access
Device Selection Algorithm

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

INFUSATE
CHARACTERISTICS

Central Access Not Required

- < 10% Dextrose
- Isotonic Solutions
- Osmolarity < 500mOsm/L
- Medication pH 5.0 - 9.0

Central Access Required

- Early Sepsis Resuscitation
- 10% Dextrose
- Osmolarity > 500mOsm/L
- Medication pH < 5.0 or > 9.0*
- See List- *Irritating and Vesicant Medications*

DURATION OF
THERAPY

< 6 DAYS

6 - 30 DAYS

1-3 MONTHS

> 3 MONTHS

VASCULAR INTEGRITY

GOOD
Visible peripheral veins

POOR
Unsuccessful after 3 attempts or with US

PICC

PICC

PORT

CATHETER CHOICE
(IN ORDER OF PREFERENCE)

PICC lines contraindicated for ESRD, Quadriplegia, Bilateral Mastectomy

PIV

PICC

CVC

TUN

PICC

PICC

CVC

TUN

TUN

DIAGNOSTICS/
PROCEDURES

CVP monitoring

PICC
CVC

Lab draws Q6H or greater

PICC
CVC

CECT

PIV
POWER PICC

LEGEND:

PIV- Peripheral IV
PICC- Peripherally Inserted Central Catheter
CVC- Non-Tunneled Central Venous Catheter
TUN- Tunneled Central Venous Catheter
PORT- Totally Implantable Central Venous Catheter

