Lovelace Westside

Vascular Access

Device Selection Algorithm

NON-EMERGENT USE, REASSESS DAILY

FOR MULTIPLE ACCESS NEEDS SELECT A MULTI-LUMEN CATHETER

Central Access Required

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

Central Access Not Required

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

INFUSATE CHARACTERISTICS

POOR

Unsuccessful after 3 attempts or with US

GOOD

Visible peripheral veins

DURATION OF THERAPY

< 6 DAYS

> 3 MONTHS

1-3 MONTHS

6 – 30 DAYS

VASCULAR INTEGRITY

PICC

PORT

PICC

PICC

CATHETER CHOICE

(IN ORDER OF PREFERENCE)

PICC lines contraindicated for ESRD, Quadriplegia, Bilateral Mastectomy

PIV

CVC

TUN

PICC

TUN

CVC

TUN

PICC

CVP monitoring

PICC CVC

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

DIAGNOSTICS/ PROCEDURES

Lab draws Q6H or greater

PICC CVC

PIV

POWER PICC

CECT