**UC/VA Internal Medicine Checklist for arterial line insertion**

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| --- | --- | --- |
| Step | Yes | No |
| Obtains informed Consent |  |  |
| Positions Patient appropriately (Tapes hand to table with gentle dorsiflexion over arm board/bedside table with chuck or towel under wrist OR supine with leg slightly abducted) |  |  |
| Uses ultrasound to locate appropriate entry site |  |  |
| Performs Allen’s test to ensure appropriate ulnar collateral flow (If radial) |  |  |
| Calls “time out” |  |  |
| Washes hands with soap and water or hand sanitizer |  |  |
| **Resident gets in sterile gown, gloves, hat and mask** |  |  |
| **Area is cleaned with chlorhexidine (30 second scrub recommended)** |  |  |
| **Area is draped in usual sterile fashion (OR towels or kit drape OK)** |  |  |
| Ultrasound probe is placed in sterile probe cover with sterile aspect of cover placed on patient running caudally. |  |  |
| The artery is identified using a linear probe on a portable ultrasound machine |  |  |
| Lidocaine is drawn up and administered using superficial wheals around the cannulation site |  |  |
| **Using the large needle under ultrasound guidance, cannulate the artery until pulsatile flash (bevel up)** |  |  |
| Advance the guidewire into the artery approximately 10 cm |  |  |
| Remove needle from patient while holding guidewire with gauze |  |  |
| Advance the arterial cannula over the guidewire into the artery (ideally without scalpel nick) |  |  |
| **Never let go of the guidewire** |  |  |
| Once the catheter is inserted remove the guidewire in its entirety |  |  |
| Attach arterial line setup |  |  |
| Confirms waveform prior to suturing line |  |  |
| Sutures catheter in place |  |  |
| Applies sterile dressing |  |  |
| **Maintain sterile technique** |  |  |
|  | | |
| **Total score** |  | |
| **Minimum passing score** | 17 | |
| **Total possible** | 23 | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| How well do you trust the resident to perform the above procedure? | | | | |
| Resident cannot perform the procedure even with supervision (Critical Deficiency) | Resident can perform the procedure under DIRECT supervision | Resident can perform the procedure under INDIRECT supervision | Resident can perform this procedure with NO supervision | Resident can act as an instructor/supervisor for this procedure (Aspirational) |
|  |  |  |  |  |

**Bold signifies critical elements of the procedure that is checked a ‘no’, procedure failure will automatically result**

*Italics signifies elements of the procedure that subject will have to verbalize rather than perform if done in the sim lab*