**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 |

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| 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*