



# University of Illinois, Metropolitan Group Hospitals

Resident Name:

PGY: 1 2 3 4 5

Date of Surgery: .....

## OSAT for Ultrasound Guided Internal Jugular Central Line Insertion OSCA

Pre-Procedural Skills	Components	Present	Absent
Verifies indication for central line placement	Central venous pressure monitoring Medication infusion into a central vein Blood draws		
Assesses clinical status and coagulation anomalies in the patient.	Patient calm or sedated, able to tolerate the procedure Normal coagulation parameters and platelets Absence of anticoagulants or antiplatelet agents		
Obtains informed consent	Discusses risks of bleeding, infection and pneumothorax		
Checks equipment	Complete central line kit Flushes, dressings and caps Ultrasound with sterile sheaths		
Positions the patient	Supine and in Trendelenburg position		
Implements barrier precautions	Hand washing Surgical cap and mask Full gown and sterile gloves Full body drape		

Procedural Skills	Components	Present	Absent
Maintains a sterile field	Direct visualization of all sterile supplies at all times		
Correctly identifies anatomic landmarks	Trachea Sternocleidomastoid muscle Carotid artery		
Correctly identifies the internal jugular vein under ultrasound	Compressible tubular structure lateral to carotid artery (pulsatile, resistant to compression) Images in a plane perpendicular to the surface of the neck		
Accesses the internal jugular vein under ultrasound guidance	Visualizes needle tip as it enters the vein Simultaneously assesses by aspirating blood		
Verifies venous puncture by assessing the color and pressure of back-bleeding	Dark red color Non pulsatile		
Gently advances the guidewire monitoring for cardiac arrhythmias	Does NOT force the guidewire. Advances no further than 20 cm from skin		
Introduces the central catheter while maintaining control of the guidewire	Constantly maintains distal or proximal control of the guidewire		
Checks for blood return from all ports	Maintains air-lock at all times		



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Secures the line firmly	Sutures to prevent "piston movements" of the line at the point of insertion Uses multiple independent sutures		
<b>Post Procedural Skills</b>	<b>Components</b>	<b>Present</b>	<b>Absent</b>
Places occlusive dressing	Places dressing on dry clean skin before breaking the sterile field		
Disposes of all sharps	Includes dialator, and guidewire as sharps		
Documents the procedure	Indication Pre-procedural assessment Number of passes Blood return Technical difficulties Complications		
Verifies chest X-ray	Absence of pneumothorax Line tip in the superior vena cava, no lower than the level of the carina		
Informs the staff, patient and relatives of the outcome of the procedure	Documents readiness of the line to be used.		

The resident must demonstrate proficiency in all skills and components as specified to attain a passing grade.

**Pass** \_\_\_\_\_ **Fail** \_\_\_\_\_

Attending Physician Name: \_\_\_\_\_

Attending Physician Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### References:

Description of technique

<http://www.accesssurgery.com.proxy.cc.uic.edu/Content.aspx?&searchStr=catheterization+of+internal+jugular+vein&aid=2282882#2282885>

Video Demonstration of Technique

<http://www.accesssurgery.com.proxy.cc.uic.edu/topicResult.aspx?searchStr=central+line+placement&rootTerm=catheterization+of+internal+jugular+vein&searchType=1&rootID=43269>