

In-Service Checklist: Da Vinci Xi Surgical System

This checklist can be used by a preceptor (e.g., robotic coordinator or hospital educator) to review the da Vinci Xi surgical system technical knowledge of multiple participant roles (e.g., first assist, circulator, or scrub tech). Prior to and in alignment with the activities in this checklist, it is recommended that participants engage in hands-on learning of system operation and functionality in conjunction with the da Vinci Xi System Overview In-Service Guide. The OR Staff In-service Guide (1007573) is available in Intuitive Learning.

Participant Name:

DATE:

Pre-Operative Activities

KEY PERFORMANCE OBJECTIVES	STERILE OR STAFF	NON-STERILE OR STAFF
Position all system components appropriately within the OR		
Plug all system components in to AC power outlets on separate, dedicated electrical circuits		
Connect (integrate) all system components together with the blue fiber cables		
Power up system and verify correct system configuration		
Power on ERBE VIO dV generator		
Demonstrate press and hold function of port clutch button to adjust arm height, flex, and slide joints in preparation for draping		
Drape Patient Cart arms and column		
Identify applicable ERBE VIO dV generator components (monopolar/bipolar cord receptacles, neutral electrode (grounding) pad receptacle)		
Demonstrate how to connect the endoscope connector into the endoscope controller (located on the Vision Cart)		
Demonstrate knowledge of the Vision Cart touchscreen monitor menus, including information located in the Home, Settings, and Guided Setup tabs as well as arm, instrument, and endoscope status areas		
Identify components of Patient Cart helm, including power button, emergency stop button, battery level indicator, cable hook, cart drive activation switches, boom height joystick, boom position joystick, and Patient Cart touchpad Home menu		
Demonstrate knowledge of Patient Cart Deployment process (anatomy/Patient Cart location selection, Boom deployment, driving Patient Cart)		
Demonstrate knowledge of docking, endoscope insertion, targeting, and system alignment processes		

Intra-Operative Activities

KEY PERFORMANCE OBJECTIVES	STERILE OR STAFF	NON-STERILE OR STAFF
Demonstrate knowledge of Patient Cart arm components, including instrument clutch button, instrument carriage, insertion axis, cannula mount, cannula mount lever, and port clutch button		
Identify location of Patient Cart LEDs, including boom, cannula mount, instrument carriage, instrument clutch, and Patient Cart arm LEDs		
Demonstrate press and hold function of port clutch button to adjust arm height, flex, and slide joints		
Demonstrate flex joint and slide joint range of motion and point out range indicators		
Demonstrate arm height range of motion		
Demonstrate use of extended port clutch button to raise and lower the boom		
Demonstrate ability to use Patient Cart “grab and move” feature - grab and pull Patient Cart arm along gray handle (behind insertion axis) to unlock the arm		
Demonstrate instrument clutch button use techniques including hold activation vs. quick click activation		
Demonstrate ability to advance instruments under visual guidance		
Demonstrate ability to use the “read back” technique for instrument exchanges		
Demonstrate instrument insertion using Guided Tool Change		
Demonstrate endoscope removal and reinsertion using Guided Tool Change		
Demonstrate ability to change 30 degree scope orientation		
Demonstrate ability to adjust energy settings from ERBE VIO dV generator		
Demonstrate ability to troubleshoot ERBE VIO dV disconnection		
Identify location of the Instrument Release Kit (used to perform manual instrument grip release)		
Verbalize difference between recoverable and non-recoverable faults and steps to take when both types of faults occur		
Demonstrate ability to troubleshoot problems during a procedure (e.g., expired instruments, internal and external collisions, system not recognizing instrument)		

Post-Operative Activities

KEY PERFORMANCE OBJECTIVES	STERILE OR STAFF	NON-STERILE OR STAFF
Demonstrate approved removal of disposables at end of case including scissor tip cover, cannula seals, stapler sheath, and single use instruments.		
Demonstrate ability to verify instrument remaining lives		
Demonstrate ability to undrape Patient Cart and dispose of drapes according to approved guidelines		
Demonstrate ability to move Patient Cart arms safely		
Identify how to power down the system from all components		

Intraoperative Table Motion Competencies

KEY PERFORMANCE OBJECTIVES	STERILE OR STAFF	NON-STERILE OR STAFF
Demonstrate ability to pair Trumpf bed with the da Vinci Xi system		
Demonstrate ability to hardwire the Trumpf bed to the Patient Cart		
Demonstrate ability to locate button on Trumpf bed to initiate pairing and to turn on/turn off integrated table motion		

Signatures

Participant: _____ Date: _____

Preceptor: _____ Date: _____

OR Manager: _____ Date: _____

Clinical Educator: _____ Date: _____

Disclosures

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