

## GE LIGHT SPEED 16 SLICE CT SCANNER

The following steps must be performed with proficiency to demonstrate ability to operate GE Light Speed 16 Slice CT Scanner.

Preceptor: Please place a check mark in the blank if the skill has been properly performed.

### WORKING SAFELY

- \_\_\_ 1. Understand the location and operation of all safety and warning labels, messages and gantry controls and indicators.
- \_\_\_ 2. Locate all emergency stops and perform emergency shutdown.
- \_\_\_ 3. Understand the location and operation of all gantry/table controls and indicators including x-ray on indicators.
- \_\_\_ 4. Attach and detach table cradle accessories and patient restraints.
- \_\_\_ 5. Perform emergency patient extraction.
- \_\_\_ 6. Locate the safety and dose information in the Operator Manual.
- \_\_\_ 7. Access Insite interactive.

### GETTING STARTED

- \_\_\_ 8. Power system up after a normal shutdown and total power down.
- \_\_\_ 9. Restart system software.
- \_\_\_ 10. Perform tube warm-up when prompted and appropriate.
- \_\_\_ 11. Perform Daily Prep.
- \_\_\_ 12. Perform QA scans and analyze the data.
- \_\_\_ 13. Shutdown the system software.
- \_\_\_ 14. Power down the system.
- \_\_\_ 15. Login using chosen user name and password.

### SCANNING

- \_\_\_ 16. Position and landmark patient.
- \_\_\_ 17. Enter patient information.
- \_\_\_ 18. Select protocol and verify scan parameters for Scout, Axial, Helical or Cine.
- \_\_\_ 19. Prescribe SmartPrep parameters.
- \_\_\_ 20. Understand detector configuration, images per rotation, helical pitch and their effect on image quality.
- \_\_\_ 21. Prescribe a scan range using explicit and graphic prescription.
- \_\_\_ 22. Understand image quality obtained from parameters prescribed.
- \_\_\_ 23. Prescribe PMR's with different slice thickness' and scan locations.
- \_\_\_ 24. Use Prescribed Tilt.
- \_\_\_ 25. Use breathing lights.
- \_\_\_ 26. Optimize scan parameters when prompted.
- \_\_\_ 27. Build a scan protocol.
- \_\_\_ 28. Understand Auto mA functionality

- \_\_\_ 29. Understand how to modify settings within Auto mA to achieve desired image Quality.

### **RETRO RECON, RECON QUEUE AND SCAN FILE MANAGEMENT**

- \_\_\_ 30. Prescribe recon parameters.  
\_\_\_ 31. Access recon queue.  
\_\_\_ 32. Reserve/release scan data.  
\_\_\_ 33. Save/Restore scan data.

### **IMAGE DISPLAY-EXAM RX**

- \_\_\_ 34. Adjust sorting mode, display format and preferences.  
\_\_\_ 35. Display images.  
\_\_\_ 36. Add measurements to an image.  
\_\_\_ 37. Change image orientation, magnification.  
\_\_\_ 38. Add filters or grey scale enhancement to an image.  
\_\_\_ 39. Perform propagate graphics (annotation, ROI, measurements).  
\_\_\_ 40. Perform an MIROI.  
\_\_\_ 41. Perform Report pixels.  
\_\_\_ 42. Screen save images.  
\_\_\_ 43. List and use accelerator line commands.

### **IMAGE DISPLAY—IMAGE WORKS**

- \_\_\_ 44. Compare series/image.  
\_\_\_ 45. Edit patient data and access edit login.  
\_\_\_ 46. Reformat a series.  
\_\_\_ 47. Prescribe and save a batch reformat prescription.

### **FILMING, ARCHIVING, NETWORKING, IMAGE MANAGEMENT**

- \_\_\_ 48. Film an exam automatically and manually.  
\_\_\_ 49. Store an exam automatically and manually.  
\_\_\_ 50. Auto Transfer and manual transfer images.  
\_\_\_ 51. Remove image data from system disk.

### **CLINICAL PROCEDURES**

- \_\_\_ 52. Perform a routine head study.  
\_\_\_ 53. Perform a targeted head study.  
\_\_\_ 54. Perform a routine body study.  
\_\_\_ 55. Perform a body study using SmartPrep.  
\_\_\_ 56. Perform a dual phase body study.  
\_\_\_ 57. Perform a spine study.  
\_\_\_ 58. Perform a biopsy study.  
\_\_\_ 59. Perform a CTA study.

### **OVERALL**

- \_\_\_ 60. Operate the system and perform routine clinical procedures.

Name \_\_\_\_\_ Preceptor's Signature \_\_\_\_\_

Date \_\_\_\_\_

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LSUHSC-Shreveport  
Department of Radiology  
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