

# CT Abdomen Hypervascular Malignancy

GE- 6001

Maximum CTDI 25

Indication: Hypervascular malignancy (melanoma, neuroendocrine, carcinoid, islet cell, pheochromocytoma, GIST(gastrointestinal stromal tumor), sarcomas, thyroid, gastric mass.

PT Prep: Negative Oral contrast (water) – Yes

\*\*If patient had CT barium do not reschedule, give water prior to scan.

IV contrast – Yes (follow IV contrast administration guidelines)

22g to 18 g peripheral IV needed for contrast administration

**Place marker if indication is “palpable mass”**

Series 1: Scouts AP & LAT – Supine “O” at Xiphoid Process S20 to I400

Series 2: Unenhanced - Scan from above diaphragm to iliac crests.

|                         | 128 slice                                       | 32 slice w/ASIR                                 | 64 slice                                        | 64 slice w/ASIR 50%                             |
|-------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Noise Level             | 18.23                                           | 14.64                                           | 11.60                                           | 11.60                                           |
| Interval                | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           |
| Axial/Helical Thickness | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           |
| Pitch                   | 0.984:1                                         | 1.375:1                                         | 0.984:1                                         | 0.984:1                                         |
| Speed mm/rotation       | 39.37                                           | 55                                              | 39.37                                           | 39.37                                           |
| Detector Rows           |                                                 |                                                 |                                                 |                                                 |
| Detector Configuration  |                                                 |                                                 |                                                 |                                                 |
| Beam Collimation        | 40mm                                            | 40mm                                            | 40mm                                            | 40mm                                            |
| Kv/mA                   | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA |
| Scan Type               | Helical Full 0.8 sec                            | Helical Full 0.7 sec                            | Helical Full 0.7 sec                            | Helical Full 0.8 sec                            |

Series 3: Arterial Phase - Scan from above diaphragm to iliac crests.

Inject 100cc of IV contrast @ 3cc/sec. (Contrast dose may be adjusted based on CrCl)

Technique - Delay 35 Seconds

|             | 128 slice | 32 slice w/ASIR | 64 slice | 64 slice w/ASIR 50% |
|-------------|-----------|-----------------|----------|---------------------|
| Noise Level | 18.23     | 14.64           | 11.60    | 11.60               |

Original Date: 4-8-04

Revised Date: 11-9-04, 1-11-10, 9-16-10 12/8/10 04/17/13 12/15/2015 2/27/18

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|                         |                                                 |                                                 |                                                 |                                                 |
|-------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Interval                | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           |
| Axial/Helical Thickness | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           |
| Pitch                   | 0.984:1                                         | 1.375:1                                         | 0.984:1                                         | 0.984:1                                         |
| Speed mm/rotation       | 39.37                                           | 55                                              | 39.37                                           | 39.37                                           |
| Detector Rows           |                                                 |                                                 |                                                 |                                                 |
| Detector Configuration  |                                                 |                                                 |                                                 |                                                 |
| Beam Collimation        | 40mm                                            | 40mm                                            | 40mm                                            | 40mm                                            |
| Kv/mA                   | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA |
| Scan Type               | Helical Full 0.8 sec                            | Helical Full 0.7 sec                            | Helical Full 0.7 sec                            | Helical Full 0.8 sec                            |

Series 4: Venous phase - Scan from above diaphragm to iliac crests.

Technique: **Delay: 70 seconds**

|                         | 128 slice                                       | 32 slice w/ASIR                                 | 64 slice                                        | 64 slice w/ASIR 50%                             |
|-------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Noise Level             | 18.23                                           | 14.64                                           | 11.60                                           | 11.60                                           |
| Interval                | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           |
| Axial/Helical Thickness | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           | 2.5mm                                           |
| Pitch                   | 0.984:1                                         | 1.375:1                                         | 0.984:1                                         | 0.984:1                                         |
| Speed mm/rotation       | 39.37                                           | 55                                              | 39.37                                           | 39.37                                           |
| Detector Rows           |                                                 |                                                 |                                                 |                                                 |
| Detector Configuration  |                                                 |                                                 |                                                 |                                                 |
| Beam Collimation        | 40mm                                            | 40mm                                            | 40mm                                            | 40mm                                            |
| Kv/mA                   | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA | Auto mA — if large pt. use manual & maximize mA |
| Scan Type               | Helical Full 0.8 sec                            | Helical Full 0.7 sec                            | Helical Full 0.7 sec                            | Helical Full 0.8 sec                            |

Networking/ PACs: Send scouts  
 Send series 2 Standard Soft Tissue Algorithm  
 Recon and send lung images in Lung Algorithm 2.5mm

Original Date: 4-8-04

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## **CT Abdomen Hypervascular Malignancy**

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Recon and send bone images with Bone Algorithm  
Recon and send MPR images in Standard Algorithm  
Record DLP in PACS comments

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