

# Chest for Pectus Excavatum

Siemens 16 Slice

|  |                        |
|--|------------------------|
| Application Examples: evaluate thoracic bony anatomy |                        |
| Oral Contrast  | No                     |
| IV Contrast / Volume                                 | No                     |
| Breath Hold  | <b>Full Expiration</b> |

## Technical Factors

|   |                              |
|---|------------------------------|
| Scan Type                                 | Spiral                       |
| Detector Collimator                       | Acq 16 x 1.2 mm              |
| kV / mAs / Rotation Time < <b>100 lbs</b> | 80 kV / 30 mAs / 0.6 seconds |
| kV / mAs / Rotation Time > <b>100 lbs</b> | 80 kV / 60 mAs / 0.6 seconds |
| Care Dose 4D                              | Off                          |
| Pitch                                     | 1.2                          |
| Typical CTDIvol < <b>100 lbs</b>          | 0.87 mGy                     |
| Typical CTDIvol > <b>100 lbs</b>          | 1.74 mGy                     |

Topogram: **PA**, 512 mm

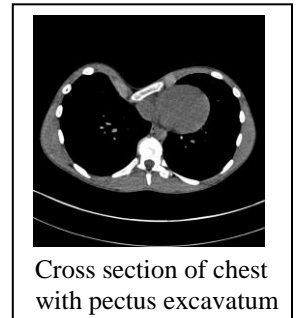
| <b>Chest</b>   | <b>Width / Increment</b> | <b>Kernel</b> | <b>Window</b> | <b>Series Description</b> | <b>Networking</b> |
|----------------|--------------------------|---------------|---------------|---------------------------|-------------------|
| <b>Recon 1</b> | 5 x 5                    | B30s          | Mediastinum   | AXIAL                     | PACS              |
| <b>Recon 2</b> | 3 x 3                    | B70s          | Lung          | AXIAL LUNG                | PACS              |
| <b>Recon 3</b> | 1.5 x 0.7                | B20s          | Mediastinum   | AXIAL 1.5 x 0.7 SMOOTH    | MPR / TeraRecon   |

This protocol is used to assess for pectus excavatum which is a deformity of the anterior wall of the chest involving several ribs and the sternum. The abnormality produces a caved-in or sunken appearance of the chest.

**Patient Position:** Position patient supine with arms above head and lower legs supported.

**Scan Range:** Entire bony thoracic anatomy.

**Recons:** Adjust FoV to fit body contour. On recon 2, set beginning and end points to include *lungs only*.



**2D Reformations:** Post processing done in 3D card.

| <b>Series: Chest</b> | <b>Reformat Type</b> | <b>Width / Increment</b> | <b>Window</b> | <b>Series Description</b> | <b>Networking</b> |
|----------------------|----------------------|--------------------------|---------------|---------------------------|-------------------|
| <b>Recon 3</b>       | Coronal MPR          | 3 x 3                    | Mediastinum   | COR                       | PACS              |
| <b>Recon 3</b>       | Sagittal MPR         | 3 x 3                    | Mediastinum   | SAG                       | PACS              |

**3D:** VR Spin. Contact La Crosse Imaging Lab.