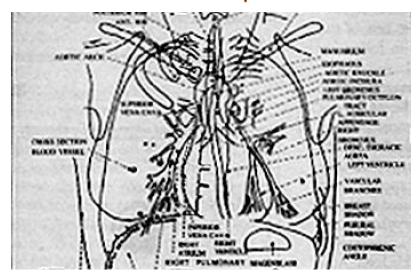
## Dynamic Chiropractic



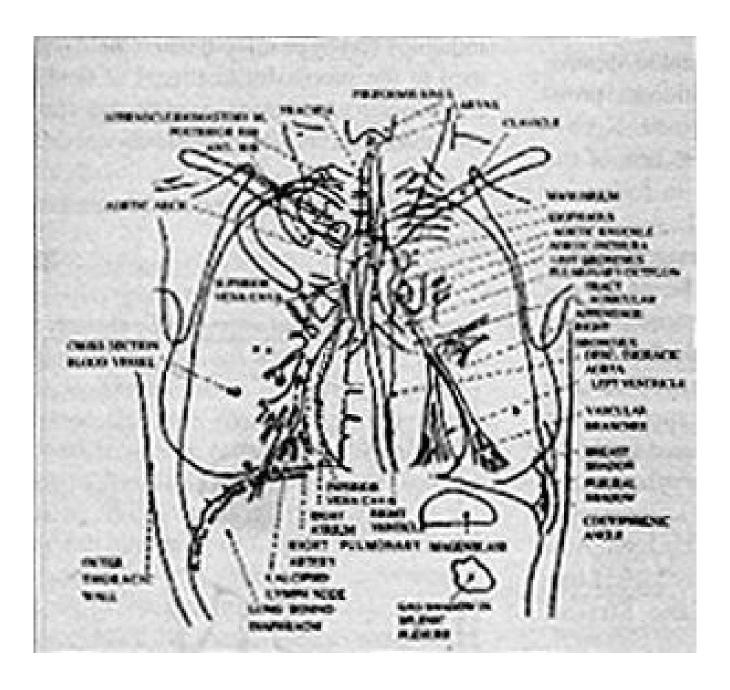
X-RAY / IMAGING / MRI

## **Chest X-ray**

Deborah Pate, DC, DACBR

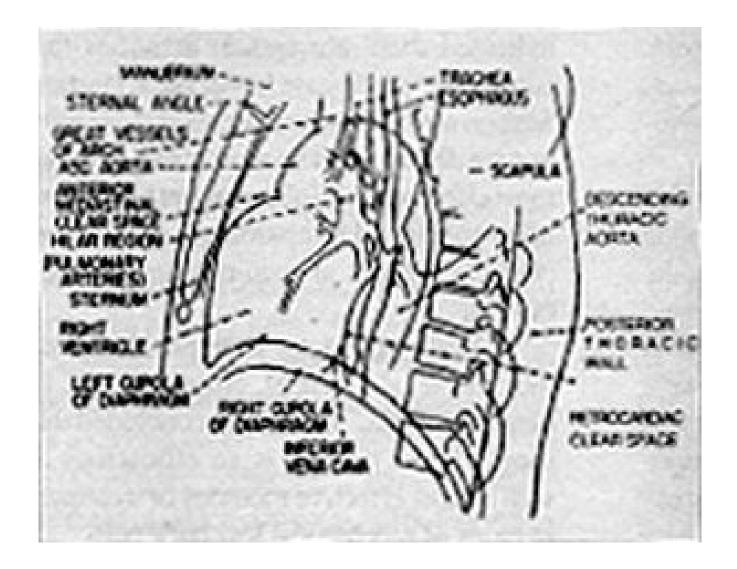
Patients may occasionally ask you to take a chest x-ray. Often the chest x-ray is a pre-employment requirement. If you choose to take chest x-rays for your patient, please be aware of the technical requirements. The accepted standard technique for taking a PA chest is non-grid at 72 inches, 100 to 110kVp, film size 14 x 17 in full inspiration. The central ray is approximately at T6. It is important to include the apices of the lungs and costophenic margins. The lateral chest is taken with the same technique, except for the positioning. The central ray on the lateral view should be in the axillary region. With a good technique the thoracic spine should be only slightly visualized on the PA view. The broncovasular markings should be clearly visualized, if they are not, you have over-penetrated. Normally the heart shadow is less than half the greater diameter of the thorax. If any finding appears suspicious, get a second opinion. I don't need to even discuss with you the malpractice implications if a neoplasm or even an infection is missed. If your patient is a smoker, I would recommend getting a second opinion, even if the study appears normal.

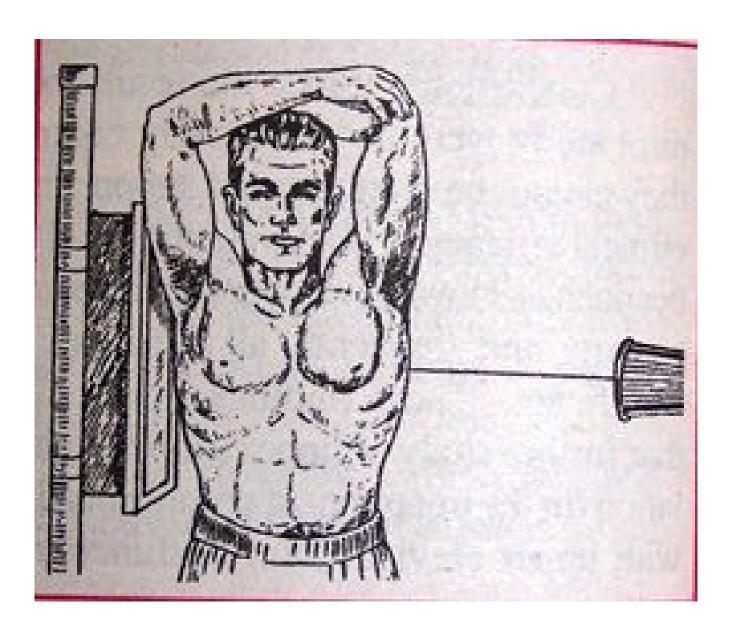
PA Chest:





Lateral Chest:





The Cardiothoracic Ratio:

This measurement is performed to determine the size of the heart and a screening for heart enlargement.

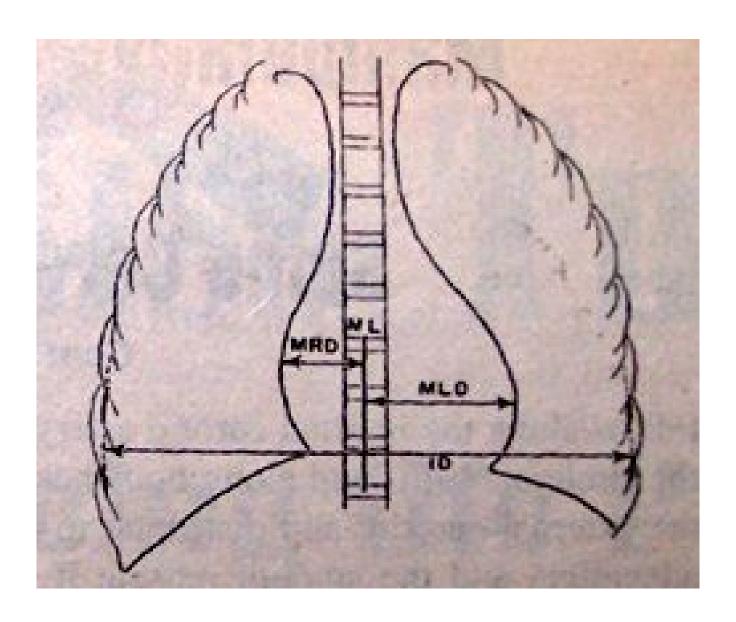
MRD = maximum transverse diameter of the right side of the heart, which is a line drawn from the midline of the spine to the most distant point of the right cardiac margin.

ML= midline of the spine

MLD = maximum transverse diameter of the left side of the heart, which is a line drawn from the midline of the spine to the most distant point of the left cardiac margin

ID= greatest internal diameter of the thorax

TD = MRD + MLD cardiothoracic ration = TD/ID



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JULY 1994

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