

The Postural Restoration Institute® (PRI), located in Lincoln, NE, was established in 2000 by Ron Hruska, to explore and explain the science of postural adaptations, asymmetrical patterns and the influence of polyarticular chains of muscles on the human body.

PRI's mission is based on the development of an innovative treatment approach that addresses the primary contributions of postural kinematic movement dysfunction.

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- The human body is not symmetrical. The neurological, respiratory, circulatory, muscular and vision systems are not the same on the left side of the body as they are on the right, and vice versa.

 They have different responsibilities, function, position and demands on them. This system asymmetry is a good thing and an amazing design.

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- The human body is balanced through the integration of system imbalances. The torso, for example, is balanced with a liver on the right and a heart on the left. Extremity dominance is balanced through reciprocal function; i.e. left arm moves with right leg and vice versa.

 PRI credentialed providers recognize these imbalances and typical patterns associated with system disuse or weakness that develops because of dominant overuse.

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When these normal imbalances are not regulated by reciprocal function during walking, breathing or turning, a strong pattern emerges creating structural weaknesses, instabilities, and musculo-skeletal pain syndromes.

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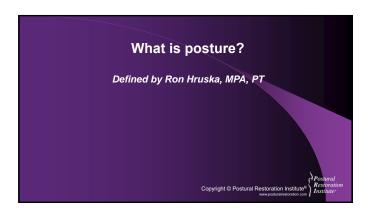
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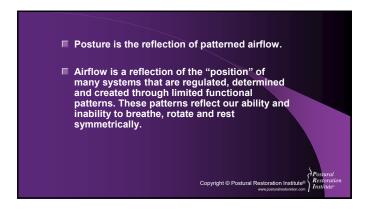
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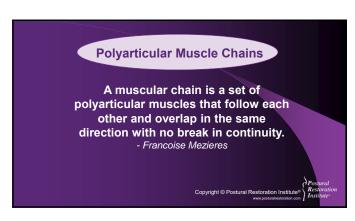
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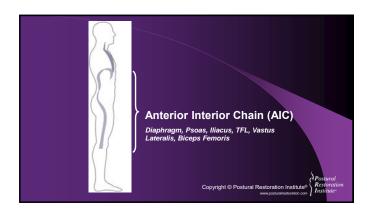
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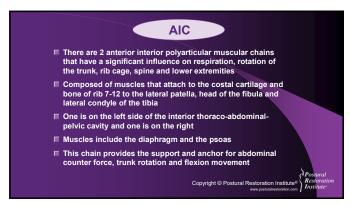
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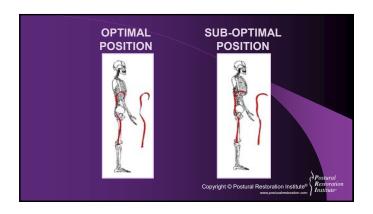




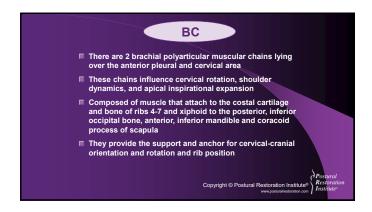


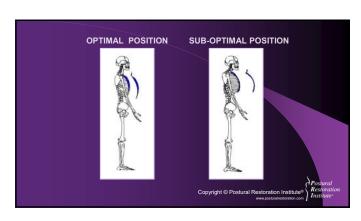


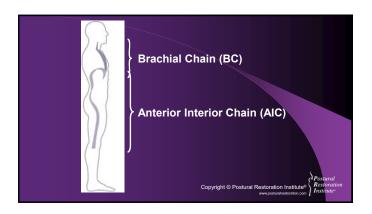




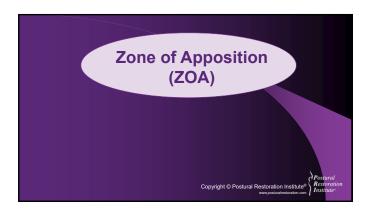


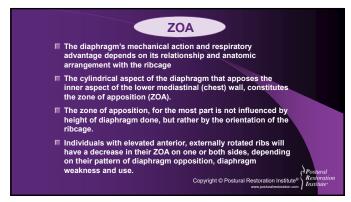


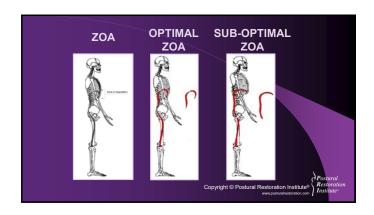


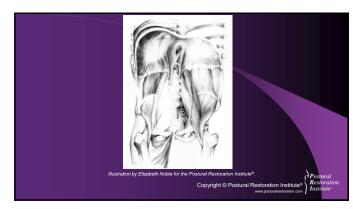


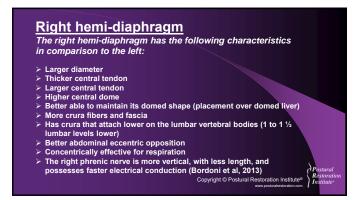












For these reasons listed above, the right hemidiaphragm is powerfully positioned to serve as a respiratory muscle to coordinate inhalation from a state of ZOA.

This dominant respiratory activity over the right half of the diaphragm centers our core of stabilization and neurological control laterally over to the right, and feeds a pattern of right dominant muscle activity that can be difficult to overcome.

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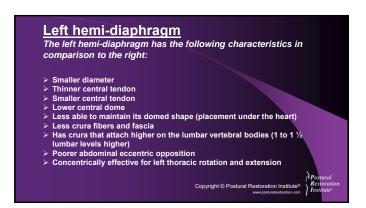
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These muscles become chronically over worked, hypertonic, and feel tight to the patient.

They often lack flexibility in lateral flexion of the thorax to the left or rotating the thorax to the right.

But the reality is that these muscles are neurologically overused and require muscle inhibition techniques rather than traditional stretches.



For these reasons, the left hemi-diaphragm is not as well positioned to serve as a respiratory muscle to coordinate normal inhalation, because the left hemi-diaphragm is more challenged in attaining ZOA activity.

Thus, the flatter left diaphragm becomes more of a postural stabilizer to the spine and core axial skeleton as it assists the back extensors and moves the lumbar spine into more of a state of extension.

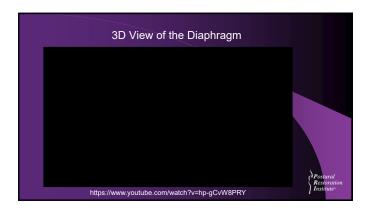
(Hodges et al, 2001).

The flatter position of the left hemi-diaphragm causes it to be overactive. This over activity is ineffectual, because it is not properly supported and opposed by the unilateral abdominal muscles, and therefore cannot maintain the ZOA required for proper respiration.

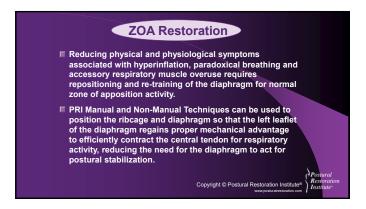
The muscles across the left side of the body need neuromuscular repositioning and retraining to properly position both the left hemi-diaphragm and all the muscles associated with the left hip and pelvis.

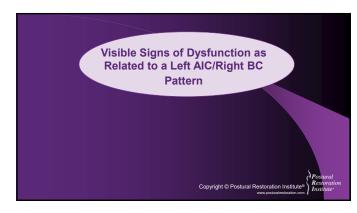
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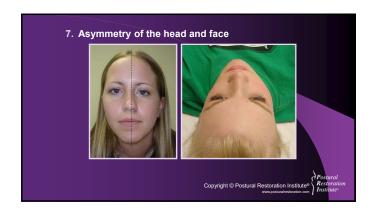






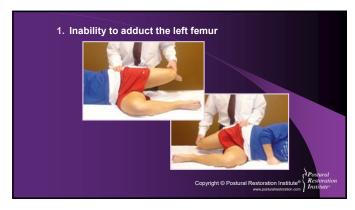








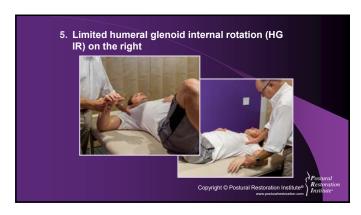


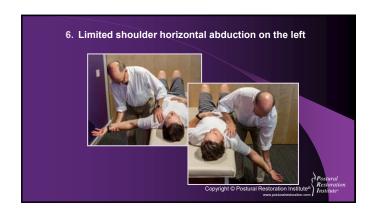














- The left pelvis is anteriorly tipped and forwardly rotated.

 The forwardly rotated left innominate causes the lower spine to orient to the right with the upper spine to the left.

 This directional, rotational influence on the low back and spine to the right, mandates compulsive compensatory movement in one or more areas of the trunk, upper extremities and cervical-cranial-mandibular muscle.

 The greatest impact is on rib alignment and position, therefore influencing breathing patterns and ability.

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- Anterior View of an Anterior & Forward Positioned Left Innominate with Accompanying Right Sacral Torsion

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