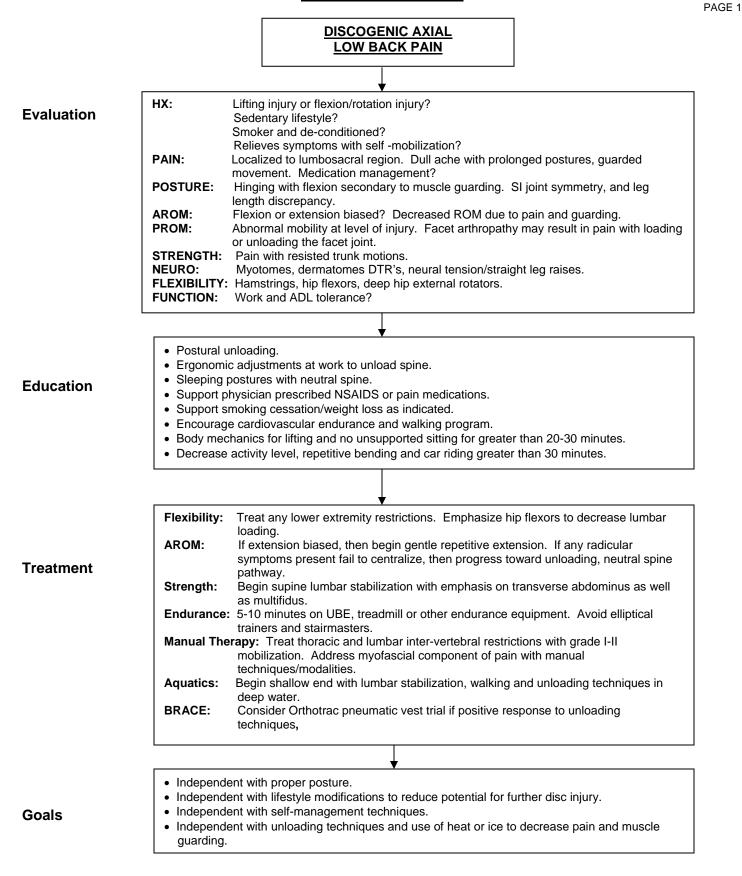


## LUMBAR SPINE





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|---------------------------------------|---|--|--|
|                                       |   | ACUTE LUMBAR HNP   |  |
|                                       | L   |  |  |
|                                       |   |  |  |
|                                       | HX:   | Lifting, twisting, bending, fall, previous hx of LBP and/or lower  |  |
|                                       |   | extremity radicular sx's.  |  |
| Evaluation                            |   | Bowel or bladder dysfunction?  |  |
| Evaluation                            | POSTURE:  | Lateral shift may be present.  |  |
|                                       | AROM:   | Flexion or extension biased?   |  |
|                                       |   | Thoracolumbar inter-vertebral joint testing if tolerated.<br>Y: Hip flexors, hamstrings, deep hip external rotators. |  |
|                                       | NEURO:  | Myotomes, dermatomes, DTR's, neural tension.   |  |
|                                       | PAIN:   | Immediate sharp low back, and/or lower extremity pain.   |  |
|                                       |   | Medication usage.  |  |
|                                       | FUNCTION:   | •  |  |
|                                       | UNLOADIN  | G: Trial of manual traction if tolerated.  |  |
| l                                     |   |  |  |
|                                       |   | $\downarrow$   |  |
|                                       | Bracing re  | commendations & lifting restrictions.  |  |
|                                       | <ul> <li>Postural u</li> </ul>  | -  |  |
| Education                             |   | c adjustments at work to unload spine.   |  |
|                                       |   | postures with neutral spine.   |  |
|                                       | 1 01  | hysician prescribed NSAIDS or pain medication.   |  |
|                                       |   | moking cessation.  |  |
|                                       | <ul> <li>Encourage</li> </ul>   | e cardiovascular endurance and walking program   |  |
|                                       |   | sitting for no more than 20-30 minutes   |  |
|                                       | <ul> <li>Avoid flex</li> </ul>  | ion, rotation, and definitely the combination of the two.  |  |
| I I I I I I I I I I I I I I I I I I I |   |  |  |
|                                       |   | $\perp$  |  |
|                                       | Traction:   | Manual supine traction, aquatics lumbar traction, positional   |  |
| Treatment                             | indotion.   | distraction techniques, and possible mechanical traction if  |  |
| ireatment                             |   | tolerated.   |  |
|                                       | Aquatics:   | Lumbar traction in deep water. Lower quadrant flexibility without  |  |
|                                       |   | nerve root irritation. Begin lumbar stabilization in shallow water.  |  |
|                                       | Flexibility:  |  |  |
|                                       | Strength:   | reactivity remains low.<br>If unloading techniques have decreased reactivity then begin lumbar                       |  |
|                                       | Strength.   | stabilization in supine.   |  |
|                                       | Endurance:  | Cardiovascular program such as UBE with low resistance.  |  |
|                                       |   | rapy: Thoracic and lumbar joint mobilization grade I-II. Address   |  |
|                                       |   | myofascial component with soft tissue techniques. Modalities as  |  |
|                                       | _   | needed to decrease muscle guarding.  |  |
|                                       | Brace:  | Temporary lumbar corset if needed to decrease reactivity.  |  |
| · · · · · · · · · · · · · · · · · · · |   |  |  |
|                                       |   |  |  |
|                                       |   |  |  |
|                                       |   |  |  |
|                                       | <ul> <li>Maintain p</li> </ul>  | proper posture both static and dynamic.  |  |
| Coolo                                 |   | ent with appropriate donning/doffing of corset/brace as indicated.   |  |
| Goals                                 | <ul> <li>Independent with icing and/or pain management such as home percutaneous</li> </ul> |  |  |
|                                       | electrical s  | timulator unit.  |  |
| l                                     |   |  |  |



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## LUMBAR SPINE

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