COMPNENTS AND FUNCTIONS OF THE SPINE

The Spine Has Three Functions *supports body weight as we sit, stand, walk and move. *gives flexibility to lift and carry objects *acts as an armor to protect the spinal cord

COMPONETS OF THE SPINE

- 24 small movable bones called vertebrae's
- Disc which is the shock absorber between each vertebrae. It compresses when bearing wt and expands like a spring when wt is removed
- Discs begin to degenerate between the age of 30 and 55, (loss of height)
- It has a "S" shape curve.

BODY MACHANICS

- Bounds Of Pressure Put On/Through The Lumbar (low back) Vertebra By A 150lb Adult During Different Activities When
 - Sleeping = 66 lbs.
 - Standing = 154 lbs.
 - Sitting = 220 lbs.
 - Lifting to the waist = 748 lbs.

BODY MACHANICS CONT'D

- When lifting use the legs
 - Keep objects close
 - Step and turn, no pivoting
 - Avoid twisting
 - Use biceps and not upper shoulders
 - Get help

BODY MACHANICS CONT'D

- Sitting
 - Avoid being sandwiched in.
 - Straight back chairs are the best/ good back support.
 - Limit crossing legs and feet.
 - Shit body weight often

Work Place

- Desk/Office:
- sitting position 90/90, chair your fitted to and gives you the support.
- Feet flat on the floor
- Monitor at face level
- Elbows at side, and 90 degrees with forearms supported and wrists supported on desk top or key board pad.

POOR POSTURE CAUSES AND EFFECTS

- Pain, Back, Legs, Hips, Neck, Shoulders.
- Change in body structures, tightness, limited range of motions, limited mobility/movement
- Decreased circulation, blood flow.
- Head aches.
- Depression, tension, stress.
- Weight gain
- Poor health
- Increased medical expenses
- More susceptible to injury
- Decreased energy levels
- Muscle weakness

Technics and Prevention of injury

Have work station properly set up

*chairs (home and work), monitor, key board, heights and keep equipment close, avoid twisting to reaching.

Get up and move around if sitting for an hour.

- * Weight shift often.
- * don't cross legs of feet
- *Do some breathing
- *Take wallet out of the back pocket
- *Hydrate self/ WHY