



WellPath's Healthy Back Challenge

Back pain and conditions are crazy common

- 8 of 10 of us will have a bout significant back pain.
 - Medications
 - Seek treatment from healthcare providers
 Miss work
- 2nd most common cause of physician's visit.
- Survey says: >25% of us have experienced back pain in the last 3-months.
- Leading reason for SL, STD and LTD and worker's comp.

WELLPATH'S HEALTHY BACK CHALLENGE

Back pain and conditions are Preventable & Treatable

- Lifestyle
- Exercise, including therapy
- Avoiding risky behaviors <u>lifting technique</u> (up to 80% of work-related back injures happen during lifting)
- Know your risk mitigate your risk
- Posture
- Ergonomics
- Body Composition



WELLPATH'S HEALTHY BACK CHALLENGE

Risk factors

- Age: 1st attack 3rd 5th decade of life and more common as we age $\,\cdot\,$ Loss of bone strength & osteoporosis
 - · Decreased muscle elasticity
 - Atrophy of intervertebral discs loss of fluid & flexibility
 - Loss of flexibility
 - Loss of strength
 - Unfavorable changes in body composition
 - Abnormalities to the spine (stenosis, bone spurs, etc.)
 - Increased sedentary time.



WellPath's Healthy Back Challenge

Risk factors

Body Composition :

- Creeping obesity: losing muscle mass and gaining body fat: weight stability
- Inactive body mass increases the weight of every lift
- Inactive body mass increases stress on spine with every lift
- · Increased abdominal adiposity can decrease flexibility of the spine
- Increased body weight inversely related to aerobic fitness
- Increased body weight inversely related to balance

WELLPATH'S HEALTHY BACK CHALLENGE

Risk factors

Backpack overload:

- Backpacks can reach > 15% 20% of children's body weight.
- Cheap backpacks and bags do not disperse load evenly.
- Backpacks and briefcases fall into the category of long-duration lifting and carrying.
- Can foster poor posture.

WELLPATH'S HEALTHY BACK CHALLENGE

Risk factors

Occupational risk factors:

- Heavy lifting, pushing, or pulling (some involves twisting, turning or vibrating)
- Repetitious tasks time-dependent tasks
- Inactive jobs long periods of time in any posture
- Poorly designed workstations
- Moving weight away from the midline of the body
- Dress codes not specific to tasks
- Lack of a worksite wellness program with a Healthy Back Challenge



WellPath's Healthy Back Challenge

"Give me a lever long enough, and a fulcrum on which to place it, and I shall move the world"

• Archimedes



WELLPATH'S HEALTHY BACK CHALLENGE

Levers can be used to magnify force applied. In our bodies, bones act as lever arms, joints as pivots and fulcrums, and muscles and objects provide force.

- Bones act as lever arms
- Joints act as pivots and fulcrums
- Load forces include bodyweight + object
- Levers give us a strength advantage or movement advantage • Not both simultaneously





























Preventing Back Injuries: Lifting Safety Check List

- Have you checked the object before you try to lift it?
- Test every load before you lift by pushing the object lightly with your hands or feet to see how easily it moves.
 Remember, a small size does not always mean a light load. Is the load you want to lift packed right?
- Make sure the weight is balanced and packed so it won't move around.
 Loose pieces inside a box can cause accidents if the box becomes unbalanced.
- Is it easy to grip this load? Have a tight grip on the object.
- Is it easy to reach this load?

 - You can be injured if you arch your back when lifting a load over your head.
 To avoid hurting your back, use a ladder when you're lifting something over your head.



WELLPATH'S HEALTHY BACK CHALLENGE

Preventing Back Injuries: Avoid lifting and bending whenever you can....

- If you must lift, the best zone for lifting is between your shoulders and your waist.
- Place objects up off the floor so you won't have to reach down to get them.
- Always use a dolly or a forklift if you can.
- Pushing an object is better than pulling the object.
- Don't overdo it - if you have to strain to carry the load, it's too heavy for you.
- Make sure you have enough room to lift safely.
- . Look around before you lift and know where you are going to put down the load.
- Avoid walking on slippery and uneven surfaces while carrying something.

WELLPATH'S HEALTHY BACK CHALLENGE

Preventing Back Injuries: Use proper lifting procedure Plan your move
Size up the load and make sure your path is clear.

- Get help as needed. Use handles or straps.
- Use a dolly or other materials handling equipment if possible.
- Use a wide, balanced stance with one foot slightly ahead of the other and with your heels on the floor.
- Get as close to the load as possible.
- . Use your palms, not just your fingers to grasp the load. •
 - Tighten your stomach muscles as the lift begins.
- Keep your lower back in its normal arched position.
- . Pivot to turn - Don't twist your back.
- . Lower the load slowly, maintaining the curve in your lower back.

Lifting Do's and Don'ts C... Know or test the object weight. Use ergonomic lift assists when possi-Plan the lift and clear your path. Get help for heavy or awkward loads. Keep the object in the power zone. Use a wide stance for balance. Use your legs to lift. Phot your feet to avoid twisting. <image><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

- XONT. Don't hold your breath. Don't bend or twist at the waist. Don't bend availaging (1-2 fingers). Don't obstruct your vision when carrying. Don't poken is fit quickly. Don't pinch you fingers or tess. Don't pul a load if you can push it. Don't pinct to wear proper PPE.

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