

FOR CSULB EMPLOYEES





Campus Roles in Workstation Evaluation

- Appropriate administrators, managers, supervisors
 - Ensure that employees have training in the proper techniques for setting up their workstations.
 - Ensure that employees have the right equipment to perform their jobs in a safe and healthy manner.
 - Ensure that employees use the tools and techniques provide to them.



Campus Roles in Workstation Evaluation

- Safety and Risk Management
 - Design and conduct ergonomic training for employees.
 - Conduct specific worksite evaluations as required by regulation.
 - Advise administrators, managers, supervisors and employees in methods they can use to implement proper ergonomic techniques.



Campus Roles in Workstation Evaluation

Employees

- Use the ergonomic equipment and techniques provided by the university.
- Advise supervisors or managers when a problem occurs regarding their workstation.
- Work with the supervisor or manager to resolve the ergonomic problem.



DEFINITION OF REPETITIVE MOTION INJURY

- Repetitive motion injury is also known as cumulative trauma disorder or repetitive stress injury.
- This type of injury is caused by repeated motions, excessive force, vibration, exposure to cold, awkward positions and over exertion. The arms and hands are especially vulnerable.
- These disorders can involve nerves, blood vessels, or tendons, which connect the muscles to the bones.



DEFINITION OF ERGONOMICS

Ergonomics is the system of fitting the equipment necessary to do a job to the individual performing the work.



IDENTIFICATION OF RISK FACTORS

Repetitive motion injuries, their consequences and symptoms are:



CARPAL TUNNEL SYNDROME

Carpal tunnel syndrome is a nerve disorder resulting from pressure on the median nerve where it passes from the forearm through the carpal tunnel in the wrist into the hand. Symptoms include: pain, numbness and tingling in the first three fingers and the base of the thumb.



 Median nerve is compressed at the wrist, resulting in numbness or pain

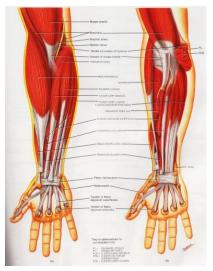
NADAM.



TENDONITIS

- Tendonitis is the inflammation of a tendon caused by repeated tensing.
- Symptom is pain.







TENOSYNOVITIS

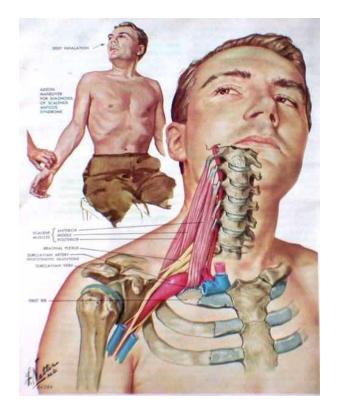
- Tenosynovitis is the swelling of the sheath surrounding a tendon, which contains a lubricant called synovial fluid. **Repetitive motion** may stimulate the sheath to produce excess fluid, which accumulates in the sheath.
- Symptom is pain in the sheath.





THORACIC OUTLET SYNDROME

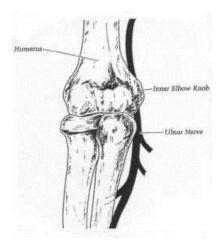
- Compression of the nerves and blood vessels between the neck and the shoulder.
- Symptoms include numbness in the fingers and tingling in the arm.

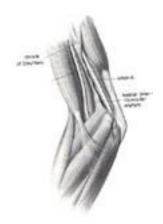




ULNAR NEURITIS

- Inflammation of the ulnar nerve caused by pressure.
 Leaning on the elbow on a hard or sharp surface for long periods may cause this condition.
- Symptoms include tingling and numbness in the small finger and ring finger.







REPETITIVE MOTION DISORDERS

- Carpal Tunnel Syndrome
- Tendonitis
- Tenosynovitis
- Thoracic Outlet Syndrome
- Ulnar Neuritis



METHODS USED TO CORRECT, MINIMIZE, OR AVOID A REPETITIVE MOTION INJURY

Ergonomic work station evaluations. Areas of interest are:

- 1) Work space layout
- 2) Video display terminal setup
- 3) Lighting glare / task light



 Work posture – chair, foot support, desk height

 Work habits - work pacing, micro breaks/exercise



ENGINEERING CONTROLS

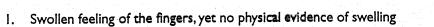
- Work station design
- Adjustable equipment
- A written report will be made to the appropriate manager after each ergonomic work station evaluation. A copy will be provided to the employee.



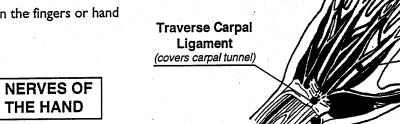
The employee must make a conscious effort to learn to use equipment properly, to be aware of neutral body position, and the necessity of exercise to relieve physical stress.



CARPAL TUNNEL SYNDROME SYMPTOMS



- Numbness in the thumb or hand 2.
- Tingling in the thumb or hand 3.
- Pain in the fingers or hand 4.



Tendon

Carpal Tunnel

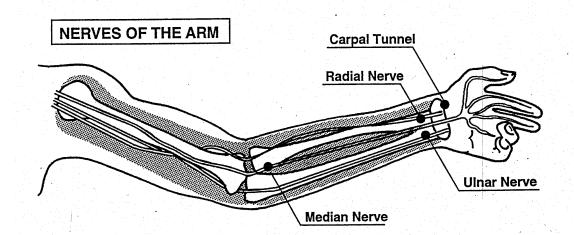
Median Nerve

General arm and hand weakness 5.

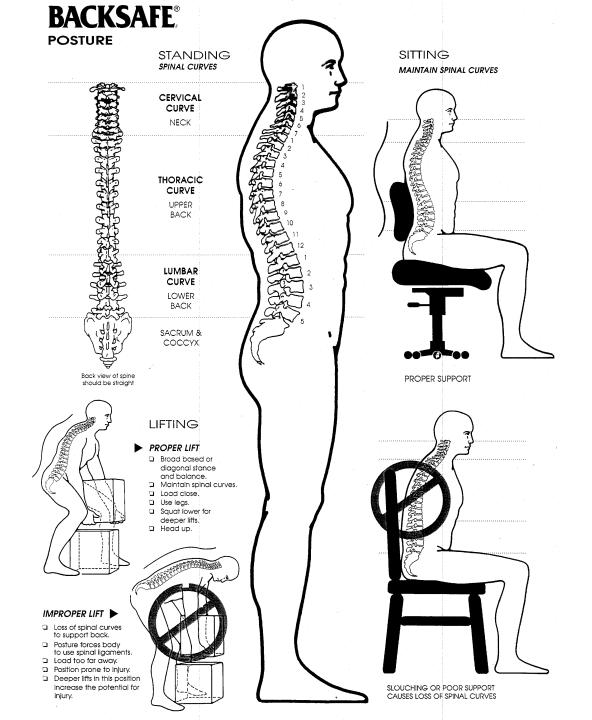
THE HAND

- Burning sensation in the hand and arm 6.
- Loss of muscle strength at the base of thumb 7.
- Dry, shiny palms and clumsiness of the affected hand 8.
- Changes in sensation and power to squeeze things 9.

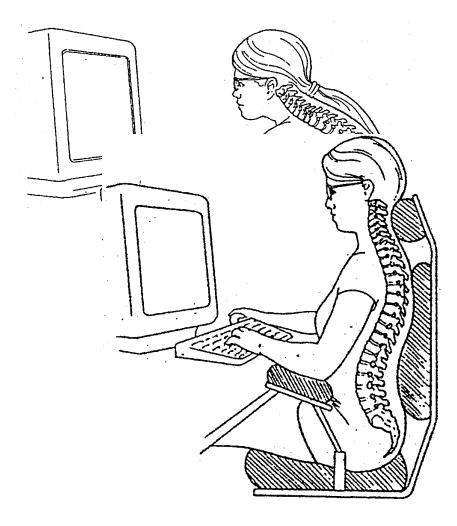
If you are experiencing any of these symptoms, your workstation should be evaluated by you and a person trained in office ergonomics. Ask your supervisor and/or department's Health and Safety Coordinator for assistance.



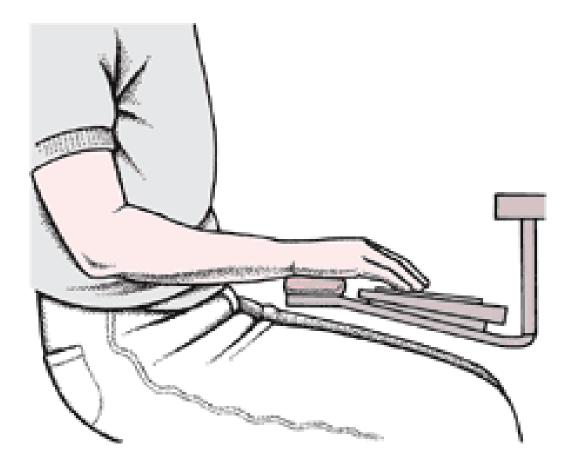


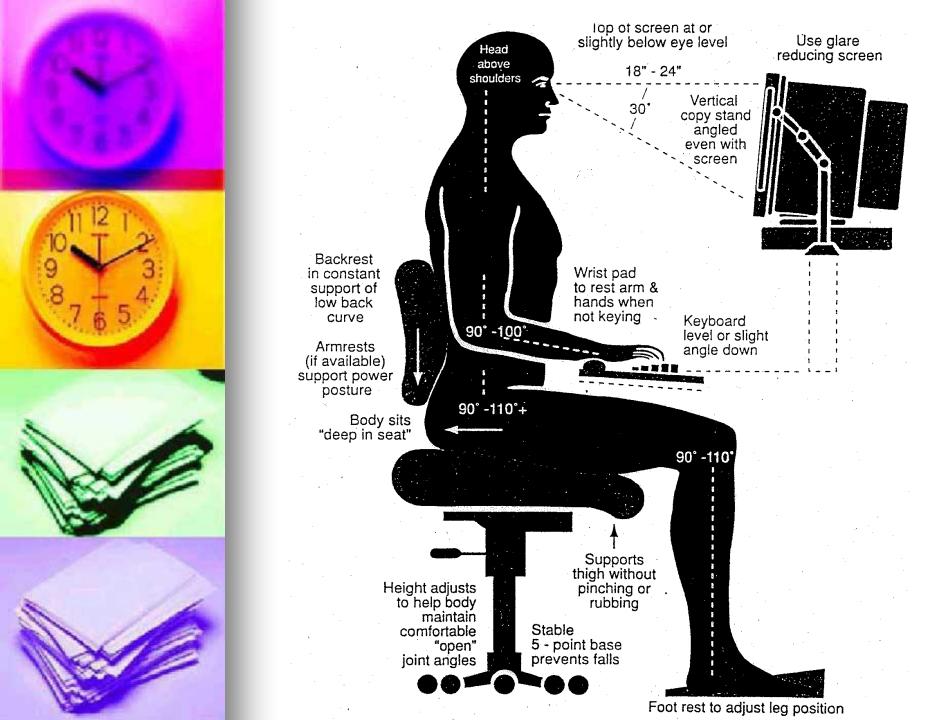






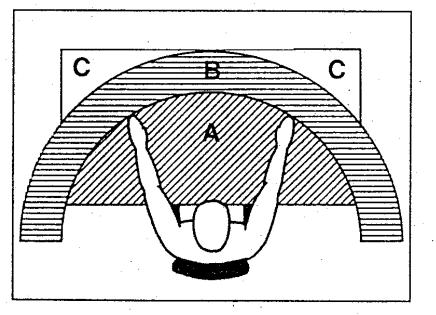


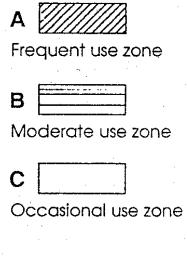






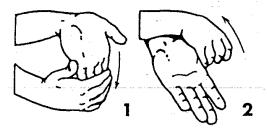
PLACEMENT ZONES

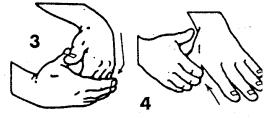






HAND AND WRIST STRETCHES





- 1. Straighten your arm with the palm up, and gradually apply downward and backward pressure against the fingers.
- 2. Reach over the top of hand gently pull the thumb straight back. 3. Repeat with the hand palm down and,
- pull fingers back.
- 4. Gently pull thumb straight back.

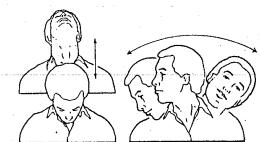
SHOULDER ROLLS



Roll shoulders forward in 3 large circles then backwards.

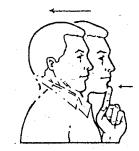
YOUR BACKSAFE CONSULTANT IS:

NECK STRETCHES



Bend head downward, and gently upward. Slowly and fully turn head to one side, then the other. Side bend the neck toward shoulder, hold, then look down.

CHIN TUCKS



Pull the chin and head straight backward as if to make as many chins as you can! Hold for a few seconds, repeat three times.

CHEST AND SHOULDER STRETCH



Clasp hands behind back and slowly straighten and raise the arms. Arch your back. Sitting forward in the seat or standing up may help.