

November 201

Sitting Posture And Ergonomics For A Healthy Back

A Few Ergonomic Recommendations:

Rest Breaks

- Fundamentally important to reduce discomfort and injury due to static muscular contractions
- Should be short and frequent (every 20 minutes)
- Standing and walking should be encouraged

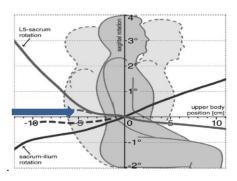
Correct Seat Height

- Should be at the level of knees (approximately 380-535 mm), if not adjustable → use a footrest
- Feet in contact with the floor (transfers 25% of body weight through legs)

Lumbar Support

- At least 6 cm of free shoulder space from the front of the lumbar support is a minimal requirement
- Back support is required from below the bottom of the shoulder blade to minimize the rotation of low back vertebrae and the sacrum on each other

Fig 1 (below) A back support should be used to keep the low back in its neutral curvature. A low backrest chair keeps the natural curvature of the low back.



10-20 degrees of backwards tilt Armrest at the and supports the level of upper back and keyboard, gap thorax for the elbow and ulnar nerve Lumbar support for the lower back Seat height at the level of knees

Back-rest Tilt

- Range between 10-20° of backwards tilt
- Supports the weight of the thorax reducing low back muscular activity
- Chairs with a low back rest recommended (see fig 1)

Arm-rests

- Reduce muscular exertion in the trapezius muscles
- Must be a gap between the armrest and the backrest to ensure the ulnar nerve (at the elbow) is not impeded
- Adjusted for elbows to be at the level of the keyboard

If you have any questions or concerns, please do not hesitate to contact us directly.

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