BODY MECHANICS

- efficient use of body as a machine

*force

*object

*fulcrum

- purpose of good mechanics:

*promotes good musculoskeletal function

*reduces required energy

*promotes balance

*promotes safety of patient and healthcare worker

- terms:

*alignment – having parts in proper relationship to each other

*balance – steady position 🗲

*base of supper rests

*gravity - force pulling object toward the center of the Earth

**center of gravity* – area on which mass of object is centered

*line of gravity – vertical line that passes through center of gravity

*center of gravity and balance – stable position, center of gravity must be above the base of support

- posture:

*position of body

*feet parallel, flat on floor, shoulder width apart

*bend knees slightly to avoid strain (act as shock absorbers)

- proper posture:

*pull buttocks in and hold abdomen in (helps keep a straight back)

*hold chest up and slightly forward

*hold head erect with face forward and chin slightly in

- body at work:

*longest and strongest muscles to provide energy

*internal girdle is the long midriff to protect abdominal muscles

*feet apart for a wide n poort ISE

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m Not REN RS FOR A GOOD BODY MECHANIC:

*bend at knees and hips

*use leg muscles

*keep back straight when lifting

*avoid twisting and stretching muscles

*rest between periods of exertions

CONCEPTS OF MOVING A PATIENT/CLIENT:

*friction – force that opposes motion

*force – energy required

*inertia – rest at rest, motion in motion

*muscle – produces force that moves lever