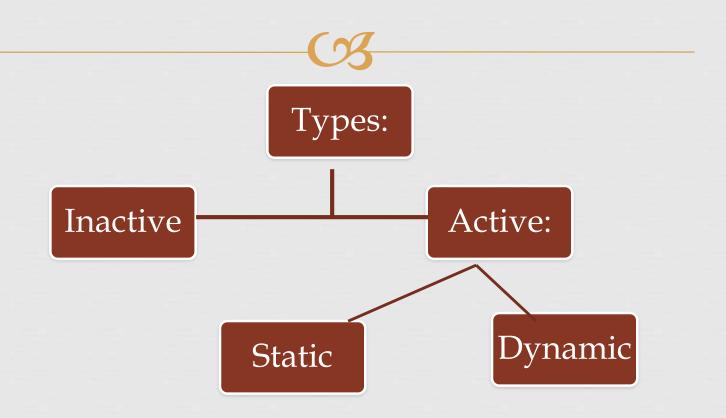
- Posture Is a position or attitude of the body a relative arrangement of body part for a specific activity or a characteristic manner of bearing the body
- **POSTURE** acronym for easy reference:
- R:-Pelvis in neutral, with weight distributed
- O:-on the whole foot

- **E:-ear over shoulder**



POSTURAL REFLEX



- Skin sensation also plays a part, eg.soles of the feet, when the body in standing position.
- ☐ Impulses from all these receptors are conveyed and coordinated in the central nervous system.

CS

- Rostures are of 2 types
- Good/ correct posture
- Read / faulty posture.

GOOD POSTURE

- Good posture is the state of muscular and skeletal balance that protect the supporting structures of the body against injury or progressive deformity irrespective of the attitude.
- A stable psychological background Joy, Happiness-Posture in which position of extension.
- Sad, Unhappy- In which position of flexion.
- Position in which minimum stress is placed on each joint.

POOR POSTURE

- Any position that increases stress on each joint.
- Rirth E
- RIMARY CURVES
- **Sacrum**
- Developmental (usually around 3 mos.)
- SECONDARY CURVES
- Cal Lumbar spine

- Representation of the Postural developmental factors
- **Bony contours**
- Calculate Laxity of ligamentous structures
- Rescial & musculotendinous tightness
- Muscle tonus
- Relvic angle
- Neurogenic outflow & inflow

POOR POSTURE



- **Causes**
- Representation of the Position of the Position
- Appearance of increased height (social stigma)
- Muscle imbalances/ contractures
- **Residual** Pain
- Respiratory conditions



STRUCTURAL FACTORS:

- **Congenital** anomalies
- **CR** Trauma
- **©** Disease

POSTURAL EXAMINATION

- Anterior view
- **◯** LATERAL VIEW:

- Shoulder

- CR The knees

ANTERIOR VIEW

CS

- Read straight on shoulders
- Rosture of jaw
- **Q** Upper trapezius neck line

- **Waist angles & arm positions**
- Carrying angles

CB

- **ASIS**
- Rubic bone level
- Real Patellae
- **Knees**
- Ribular heads
- **Malleoli**
- Arches
- Report Foot rotation

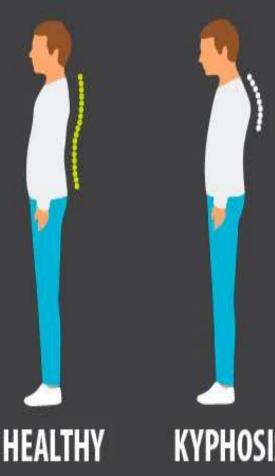
FAULTY POSTURE



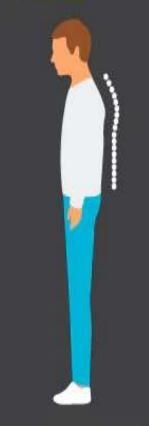
- Call Lordotic posture
- Kyphotic posture / Round back
- Sway back posture / slouched posture
- Real Flat back posture
- Real Flat neck posture
- Representation of the contract of the contract

5 TYPES OF POSTURE

M BRACEABILITY



KYPHOSIS



FLAT BACK



SWAYBACK



FORWARD

LORDOSIS

CB

- Cordosis is the normal curve (anterior convexity) of cervical and lumbar spine which is found all normal individual pathologically.
- Exaggeration of normal curve in cervical and lumbar spine.

LORDOSIS

CB

CAUSES:

- **Weakness** of abdominals muscle
- Tightness or contracture of hip flexor (iliopsoas)
- Congenital problems such as bilateral congenital dislocation of hip
- Pregnancy
- Spondylolisthesis
- Anterior tilt of pelvis as a result of weak extensor of hip and Abdominals
- Tightness or shortening of cervical extensor



- Mobilization of the lumbar spine.
- Anterior stretching of the lumbar spine
- Strengthening of the abdominals, glutei and hamstring.
- Training in grade correction of pelvic tilt
- Spinal extension or hyper extension should be strictly avoided.

KYPHOSIS/ ROUND BACK

COMMON CAUSES

CB

- Shortening or tightness of extensors of cervical spine and lumbar spine and flexor of hip joint.
- Weakness of neck flexors, upper back extensors (erector spinae) and Hamstring muscle.
- Rony anomaly
- Ankylosing spondylitis.
- **™** Other congenital anomalies.



- **Relaxation**
- Repeated stretching session
- Residual Posture of head, neck and shoulder
- Mobilization of the whole spine
- Resistive exercise for longitudinal and transverse back muscle
- Controlled pelvic tilt

SCOLIOSIS

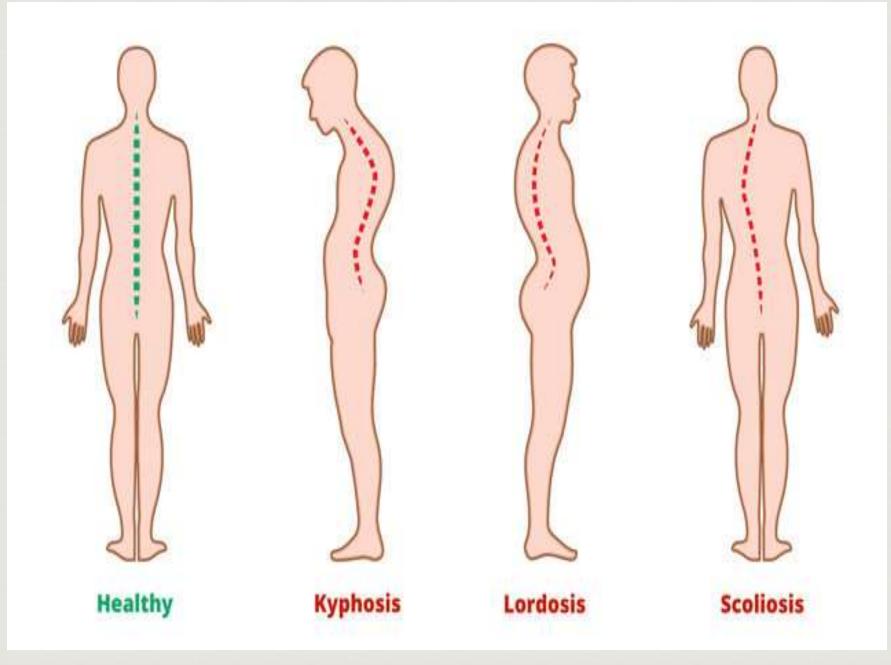
03

Cateral curvature of the spine.

STRUCTURAL SCOLIOSIS:

- Neuromuscular disease
- Osteopathic disorder
- **™** NON -STRUCTURAL:
- □ Leg length discrepancy, either structural or functional,
- Muscle guarding or spasm
- nabitual or asymmetric posture.

- Active Correction with postural adaptation
- Passive Correction by Hanging
- Reducate the patient by active effort
- Relaxation technique
- Repeated sessions of maintenance
- General free mobility exercises
- □ Deep breathing
- **Representation** Balance Exercises
- **CR** Traction



SWAY BACK POSTURE/SLOUCHED

- Raulty posture
- Mead becomes slightly forward
- Extension of cervical spine,
- Region of thoracic spine.

CS

- **Causes**:
- **Weakness** of iliopsoas
- Rony anomaly



- Stretching of hamstring and abdominal muscle
- Relaxation of the body
- Strengthening of iliopsoas
- Maintain position of head is backward, extension of thoracic Spine
- Maintain normal lordosis of lumbar spine
- Always standing in erect position

FLAT BACK POSTURE



- Whole lumbar and thoracic spine gets flattened.
- Real Flattening of normal lumbar lordosis
- **CAUSES:**
- Tight trunk flexor (rectus abdominis and intercostal) and hip extensor muscle.
- Stretched and weak lumbar extensor and possibly hip flexor muscle..



- Increase lumbar lordosis which results in forward tilting of pelvis.
- Maintenance of arch by active holding and also passive support in sitting are effective in maintaining lordosis
- Mobility and strengthening exercise of lumbar extensor are important.
- Stretching of trunk flexor and hip extensor muscle.

FLAT NECK POSTURE

- Increased upper flexion of the occiput on atlas
- Decreased lordosis of the cervical spine.
- **CAUSES:**
- Short anterior neck muscle
- Righ pillow under the head



- Relaxed passive movement
- Strong isometric exercise of the cervical muscle are maintained or improved.
- Stretching the anterior neck muscle.
- Strengthening exercises of levator scapulae, strenocleidomastoid and scalene muscle.

FORWARD HEAD POSTURE

- **Excessive** extension of upper cervical spine
- Relation of the lower cervical and upper thoracic spine.
- **CAUSES:**
- Working on computer which is slightly higher than the position of head.
- Righ pillow under the neck
- Tight levator scapulae, Sternocleidomastoid, Scalene and Sub-occipital muscle.
- Stretched and weakened anterior throat muscle and lower cervical and upper thoracic erector spinae muscle.

- Stretching of levator scapulae, Sterocledomastoid, Scalene and Sub-occipital muscle.
- Avoid pillow or small pillow under the neck.
- Rechniques.
- Strong isometric exercise to the cervical muscle are to be maintained or improved.