



Postures & Asanas

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DEFINTION

- · A particular position assumed by a body with our without external support
- Involves a well coordinated action of several muscles, joints and associated nerves

IMPORTANCE of POSTURE

- Provides stability and equilibrium of the body
- This forms the essential basis for movements which are superimposed
- Eg. Sitting posture in a chair adopted for writing

IDEAL POSTURE

- Involves minimum voluntary efforts
- Involves minimum energy consumption







Wind Mind

POSTURE

- CONTROL OF POSTURE
 - Complex action depending on counteracting reflexes
- INVOLUNTARY CONTROL: MAJOR CENTRES
 - Basal Ganglia
 - Brainstem Nuclei
 - Reticular formation
- These co-ordinate with each other
- Send appropriate motor nerve impulses to the corresponding skeletal muscles







POSTURE



RECEPTOR-TYPES

- 1. Proprioceptors- muscle spindles, tendon organs, joints & labyrinth
- 2. Exteroceptors- Eyes, skin and ears
- 3. Visceroreceptors
- RECEPTORS- MAJOR FUNCTION
 - Convey moment to moment about the POSITION of the BODY PARTS and their MOVEMENTS
- RECEPTORS- MECHANISM
 - Inputs are RECEIVED, INTEGRATED AND CO-ORDINATED by the SUB CORTICAL centres
 - Without the control from CORTEX & below the level of consciousness
 - Motor impulse send to the concerned muscle for action





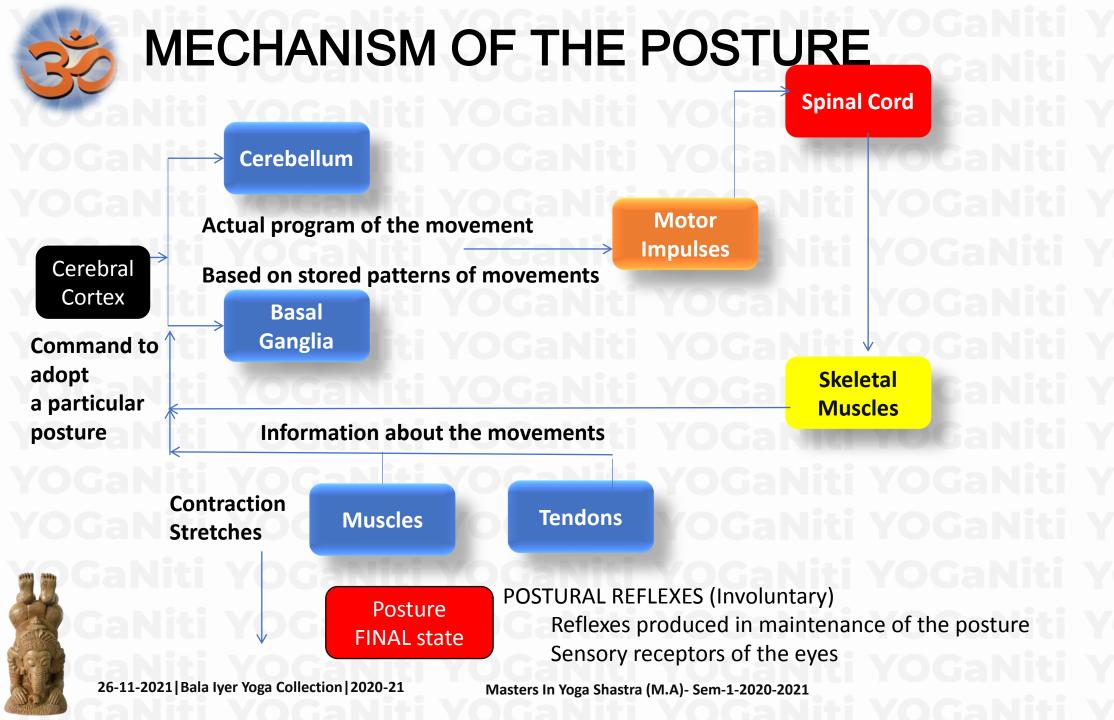


POSTURE

- Breathe Book
- Stretch & pressure receptors send information to spinal cord or lower brain centre
- Stretch muscles contract automatically as a result of stretch reflexes
- POSTURAL REFLEXES
 - Reflexes produced in maintenance of the posture
 - Sensory receptors of the eyes
- MAJOR MUSCLES- ERECT POSTURE against the force of gravity
 - Extensors & Flexors of the neck
 - Lower limbs
 - Trunk
 - Hip Muscles
- Cerebellum controls fast movements
- Basal Ganglia controls slow movements













TYPES OF POSTURAL

REFIEXES



Reflexes produced in maintenance of the posture Sensory receptors of the eyes



THREE TYPES

STATIC REFLEXES

- Maintain the position of the
- Body & its parts in the resting condition
- Produced by Proprioceptors- Sensitive to stretch & pressure
- Sensory inputs from the eyes
- Inputs from Labyrinth

RIGHTING REFLEXES

 Any deviation from the NORMAL or BASIC posture is corrected constantly

STATOKINETIC REFLEXES

- Brings about smooth, balanced and progressive movement
- Maintain an abnormal posture







POSTURES



TWO TYPES

INACTIVE

- Resting or sleeping
- All muscles relaxed
- Muscles required for circulation and respiration are active
- Reduced activity and minimal
 - Resting in easy chair
 - Sleeping on the back ie supine
- No muscular movement to maintain the posture against gravity
- Joints loose

ACTIVE

- Neuromuscular coordination
 - Voluntary Muscles contraction
 - Involuntary Muscles contraction

STATIC POSTURES

- Stably maintained for some length of time due to coordinated function of concerned muscles
- Joints stabilized
- State of equilibrium against force of gravity
- Semi Voluntary- one is not aware of the attained posture
- Eg-Sitting posture maintained in a semi relaxed state

DYNAMIC POSTURES

- Modified and adjusted according to movements superimposed
- Works against force of gravity
- Most ASANAS are dynamic in nature





VocaNiti VocaNiti Vo

OGaNiti YOGaNiti





