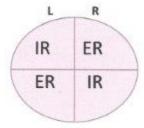
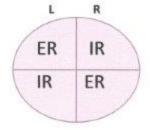
## Anterosuperior-posteroinferior axis/ vertical axis(side-bending component)

## L side bending rotation

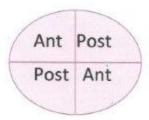


Right side bending rotation

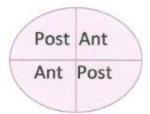


Vertical axis

Left lateral strain

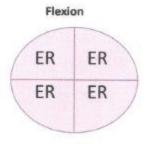


Right lateral strain



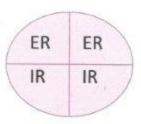
# Cranial strains (from the front)

#### Transverse axis



Transverse axis

Superior vertical strain

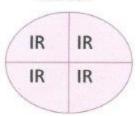


Anterosuperior-posteroinferior axis

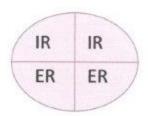
IR ER

Left torsion

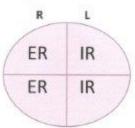
Extension



Inferior vertical strain



Right torsion



Cranial strain	Cerv. Position		Stance	Eyes postition
Left torsion	L side bending	R rotation	R foot forward	Lanterior canal(SB)- eyes to Rand up Rhorizontal canal(rot)- eyes to L
L side bending roation	R side bending	R rotation	R foot forward	R horizontal and R anterior canaleyeyes to L and up
R torsion	R side bending	L rotation	L foot forward	R anterior canal(SB)- eyes to L and up L horizontal canal(rot)- eyes to R
R side bending roation	L side bending	L rotation	L foot forward	L horizontal and L anterior canal- eyes to R and up

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# MORPHOLOGICAL ANALYSIS

Characteristics based on the Kretchmer biotypes.

# Facial and Bodily Signs and Characteristics:

Facial and Bodily Signs and Charac	cteristics:			
Asthenic Thin triangular face Thin upper lip - as a rule Long nose - high bridge Narrow bridge Rapid pulse (Mu slows) Hollow cheeks Mouth closed, eyes open Pointed, very narrow chin Long neck Long extremities Bass voice Trunk short & narrow Shoulders square, high, angular Crowded ill-set teeth High cheek bones Bony Pale Tall - usually Lips pale Eyes large, maybe narrow PD Delicate texture skin Narrow head Tend to be fleshier after 35	Syntonic Square face	Pyknic  Full round face Full lips Small depressed nose Wide bridge Slow pulse (Mu increases) Full round cheeks Mouth open, eyes closed Globular chin Short neck Short extremities Tenor voice Trunk long & full Shoulders sloping Teeth even, not crowded Depressed cheek bones Fleshy Red Stodgy Lips red to purple Eyes small, wide PD Rather coarse skin Wide head		
Functional Tendencies or Trends:				
High metabolic rate Hyperopia Esophoria Dyspepsia Hypotension (low BP) Hyperthyroid Headache Melancholia General debility Wasting diseases Dizziness Intestinal cramps (gas) Heart failure, Class IV Menstrual cramps - at times Gastric ulcers Tumors (cystic) Acidosis		Low metabolic rate Myopia Exophoria Asthma Hypertension (high BP) Hypothyroid Apoplexy Fatty degeneration heart & kidneys Inflammations - gouty type Rheumatism Scrofula (swollen lymph glands) Diabetes - Mendelian recession Menorrhagia (profuse flow) Gall bladder Tumors Alkalosis		

## Wallace law:

- 1) The orbit protects the globe influencing its shape.
- 2) The globe tends to remain in the relative center of the orbit to keep the fovea in the line of sight.
- 3) Each cranial strains creates specific fixation disparity compensated by position and movement of the C/Th/L spine as descending patterns of compensations are dominant in human population
- 4) Cranial flexion will facilitate exophoria (eyes-globe being wider and shorter with the orbit being shallower) and hyperopia with undercovergence dysfunction and inefficient, structurally based divergence. Fovea will move nasally with optic nerve being on slack as the inferior and superior oblique pull the fovea nasally and anteriorly at the 35° rotational axis. Obliques, with the attachment on the posterior globe, contracting concentrically promote the positions of the exophoria and hyperopia. This is checked by eccentrically contracting superior and inferior recti attached to the anterior globe.
- Cranial extension will facilitate esophoria (eyes-globe being longer and taller with the orbit being deeper) and myopia with underdivergence dysfunction and inefficient, structurally based convergence. Fovea will move temporally with optic nerve being taut as obliques working eccentrically move the globe posteriorly and temporally deeper into the orbit at the 35°rotational axis. This will facilitate position of esophoria and myopia reinforced by concentrically contracting superior and inferior recti muscles.
- 5) Symmetrical tension of superior and inferior oblique and recti muscles while assuming the exophoria or esophoria position will be dependent on the optimal and neutral position of the C spine

6) Cranial strains of torsion and side-bending rotation can create the hyperhoria as a form of compensation. Possibly more embedded on the side of flexed – externally rotated sphenoid(higher greater wing), less difficult to correct on the side of extended-internally rotated sphenoid (lower greater wing)

Cervical spine and sphenoid position in the sagittal plane will influence tension of the specific superior and inferior oblique and recti muscles, for example-in cervical extension superior oblique and inferior recti will be dominant based on VOR.

# Comitant deviations

- Head tilt down for eso, up for exo
- In eso or ortho-head tilt towards hypophoria
- In exo- towards hyperphoria
- In paresis- head tilt towards field of action of the paretic muscle with eyes turning in opposite direction
- Hyperphoria at far- SR/IR, at near- IO/SO
- Difference from far to near > 10 PD is a sign of abnormal ACA
- Excessive high eso at near compared to far- high ACA
- Excessive exo at near compared to far- low ACA