Туре	Structure	cells	Site	Growth
Cartilage				
Hyaline cartilage	 Perichondrium of 2 layers (vascular) Matrix has collagen type II (basophilic) Chodrocytes can be single or in groups (cell nests) 	 Chodroblast in perichondrium Chondrocytes in matrix 	 Foetal skeleton Costal cartilage Bone articular surface Nose Trachea & bronchi 	 Appositional growth : Increase in width By chondroblast in the inner chondrogenic layer
Elastic cartilage	Similar to Hyaline + Elastic fibers		 External ear epiglottis 	 Interstitial growth : Increase in length By action of chondrocytes
Fibrocartilage	 No perichondrium Collagen type I 		1) Intervertebral disks.	
Bone				
Compact "cortical"	 Periosteum Endosteum Bone lamellae Haversian systems (osteons) 3 parts of lamellae: External Circumferential Lamellae. Internal Circumferential Lamellae. 	 Bone forming cells 1) Osteogenic cells : Gives rise to osteoblast 1) Osteoblasts Secrete matrix and Ca 2) Osteocytes Maintain matrix 	found in the diaphysis of long bones .	 Appositional growth : Increase in width By activity of osteblasts Growth in length : Increase in length By activity of epipyseal plate of cartilage
Spongy	 Periosteum Endosteum Irregular bone trabeculae Bone marrow spaces No haversian system 	Bone destructive cell 1) Osteoclast Bone resorption	found flat bones & epiphysis of long bones.	

Disclaimer: this table has been done upon one of our dear calssmate's request. It is not related to the doctors nor are we saying that the information included are by any means extra important.