24 HR

STRUCTURE	FORERUNNER	FORERUNNER	IMMEDIATE FATE	ADULT FATE	EMBRYONIC FUNCTION	ADULT FUNCTION
I. Level of						
Anterior						
Neuropore					······································	
Anterior					marks region were neural folds	
Neuropore	Neural tube	unfused neural tube	Will close	None	have not yet fused	
					No functional use but will	
		Pocketing of endoderm	Separates into the foregut		become passageway of	Passageway of materials to be
Foregut	Primitive gut	within head fold	and midgut?	Pharyngeal Arches	ingested material	digested/undergoing digestion
						Mechanical digestion and
	Ectoderm + endoderm	Ectoderm + endoderm			No functional use but marks	chemical digestion through
Oral Plate	thickening below foregut	thickening below foregut	Ruptures	Mouth / Stomodeum	beginning of digestive pathway	salivary enzymes
Subcephalic					Separates head and neck from	
Pocket	Ectoderm + mesoderm	Folding of somatopleure	Degenerates caudad		the underlying yolk	
						Line coelom, circulation of
						nutrients through circulatory
					Undergo cell specification and	system, movement through
					morphogenetic movements	muscular system, support and
					through selective gene	framework of body through
			Epimere, mesomere,		expression to develop into their	skeletal system, regulation
Mesoderm	Epiblast	Ingressing epiblast cells	hypomere	Mesodermal derivatives	respective fates	through excreteroy system
						Lines digestive tract except
						mouth, lines respiratory tract
						including alveoli, produces
				Epithelial lining of		normones through the thymus
		Secondary/definitive	Lining of foregut, midgut,	digestive		and thyroid gland, excretion
Endoderm	Hypoblast	hypoblast	hindgut	tract	No functional use yet	through urinary bladder
II. Level of						
Amnio-						
Vesicle						

	T	T	1	Telencophalon		
				Dianaanhalan		
			Descenter			
		Dorsolateral ninge point	Prosencepnaion,	Metencepnaion,	l	
		cells,	Mesencephalon,	Myelencephalon	For sensation and muscle	For sensation and muscle
Neural Tube	Neural ectoderm	Medial hinge point cells	Rhombencephalon	Spinal Cord	control	control
Head		Migrating cranial neural				
Mesenchyme	Prechordal mesoderm	crest		Facial connective tissue	Embryonic connective tissue	
	Epiblast cells migrating				Induces development of	
Notochord	through Hensen's node	Mesodermal rod	Persists until replaced	Pulpy nucleus	the neural plate	Support
			amnion (dorsal wall),			
Amnio-Cardiac	Somatic mesoderm;	Thickened splanchnic	cardiac primordium			
Vesicle	ectoderm	mesoderm	(thickened proximal wall)	Pericardial coelom	Amnion - protective	Surrounds heart
Splanchnopleu	Splanchnic mesoderm and	Splanchnic mesoderm and		Visceral pleura, parts of		contracts digestive tract
re	endoderm	endoderm	Still the splanchnopleure	spleen, mesenteries	Nothing really	(muscles)
III. Level of			····		<u> </u>	, ,
Anterior						
Intestinal						
Portal						
Anterior		ł'	<u> </u>		l	
Intestinal	Floor of the foregut fused to	Disappearance of posterior				
Portal	entoderm of blastoderm	sections of foregut floow		Duodenum	Entry of nutrients from volk	Digestion and absorption
				Phanyny cavities in the		
			Phanyngeal pouches I-V	middla		
			Pharyngear pouches i-v			
			which push laterally	ear, Eustachian tubes,		
Pharyngea		Pharyngeal chamber of	through nead	palatine tonsii, tnymus,		
Poucnes	Foregut	embryo	mesencnyme	Inferior paratnyroid giand		
		Pinched-off somatopieure				
		from extraembryonic		Ventral surface of head	Undercuts head to distinguish it	
Head Fold	Somatopleure	blastoderm	ļ	and foregut	from body	
IV. Level of						
Midgut						
Midgut	Primitive gut	Foregut	Still the midgut?	Small intestine	Nothing yet	Digestion and absorption

				Body muscles, dermis,		
				vertebrae, chorion,		
				amnion,		
Somatic	Hypomere / lateral-plate	Upper layer adjacent to		limbs, peritoneal cavity.		
Mesoderm	mesoderm	ectoderm after splitting	Somites, somatopleure	gonads	Lines coelom	(functions of derivatives)
			Merges with other cardiac	30		
Cardiac	Thickened splanchnic		primordia to form			
Primordia	mesoderm	Endocardial tube	primordial heart	Heart	Nothing vet	Muscular propulsion of blood
V. Level of			p			
Somite						
		Folding through DLHPC				Transmission of neural
Neural Groove	Neural ectoderm	and MHPC	Neural Tube	Brain and spinal cord	Undergoes complete fusion	messages
			Dermatome, sclerotome,	Dermis, skeletal muscle.		
Somites	Mesoderm	Paraxial mesoderm	mvotome	vertebrae	Differentiates	
Intermediate						excretion and gamete
Mesoderm	Mesoderm	Mesoderm	Nephrotomes	urogenital system	Nothing vet	production
				Splanchnopleure	Assimilates with ectoderm	1
				Somatopleure, outlying	(somatic splanchnopleure) and	
Lateral Plate			Somatic and splanchnic	regions become	endoderm (splanchnic	protection, absorption.
Mesoderm	Mesoderm	Mesoderm	lavers of mesoderm	extraembryonic	mesoderm)	digestion, respiration
			Embryonic and			
	Splitting of lateral plate	Splitting of lateral plate	extraembryonic body	Pleural and peritoneal		
Coelom	mesoderm	mesoderm	cavities	body cavities	Surrounds aut	Surrounds visceral organs
VI. Level of						
Primitive						
Pit/Groove						
					Allows migration of prospective	
			notochordal canal,		pharyngeal endoderm,	
Deinsitus Dit	En ible et	En ible et	which quickly becomes		prechordal plate mesoderm	
Primitve Pit	Epiblast	Epiblast	the neurenteric canal	pulpy nucleus	and chordamesoderm cells	support
			Where blood Islands form;	Thursday have distant		
			Extends until it eventually	I nrougn blood Islands -	Represents extent of lateral	Former resting of a dult
Area Opaca	De starian half af blastadarra	Splanchhopieuric cells and	surrounds the entire yolk	blood vessels and blood	mesodermal migration/Site of	Forms portion of adult
vasculosa	Posterior nail of blastoderm	endoderm	mass; YOIK Sac	cells		circulatory system (?)
	spianchnic mesoderm of		andrastitis and he has a state of the			Oregulation of block
	yoik sac (lateral plate		primitive blood vessels	blood vessels and blood	Ald in providing nourishment to	
Blood Islands	mesoderm)	Hemangioblasts	and blood cells	cells	the developing embryo	(Circulatory System)

			Area Vitellina Externa			
			-			
			Area Vitellina Interna			
Area Opaca			-	Yolk sac (?) yolk sac		
Vitellina	Blastoderm	Area Opaca	-	parenchyma?	Nourishment of Embryo	