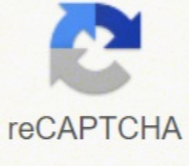


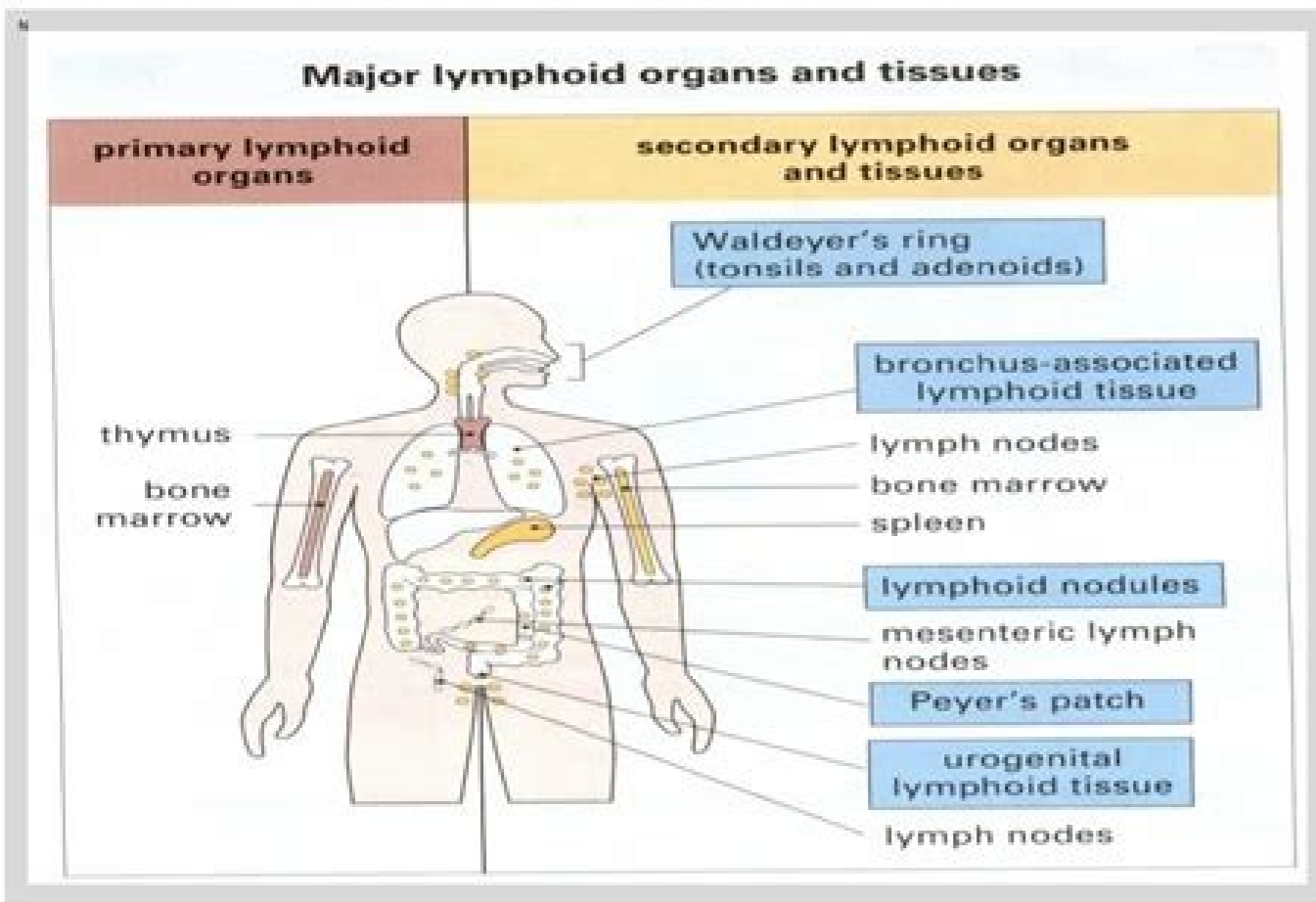


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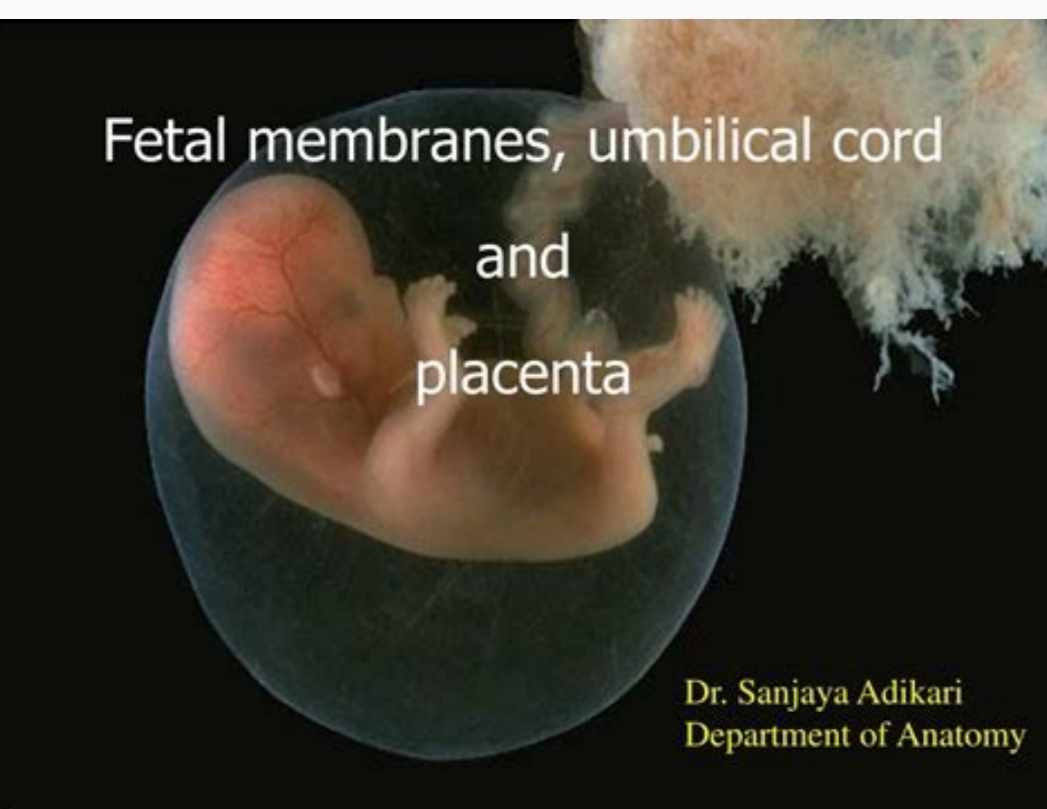
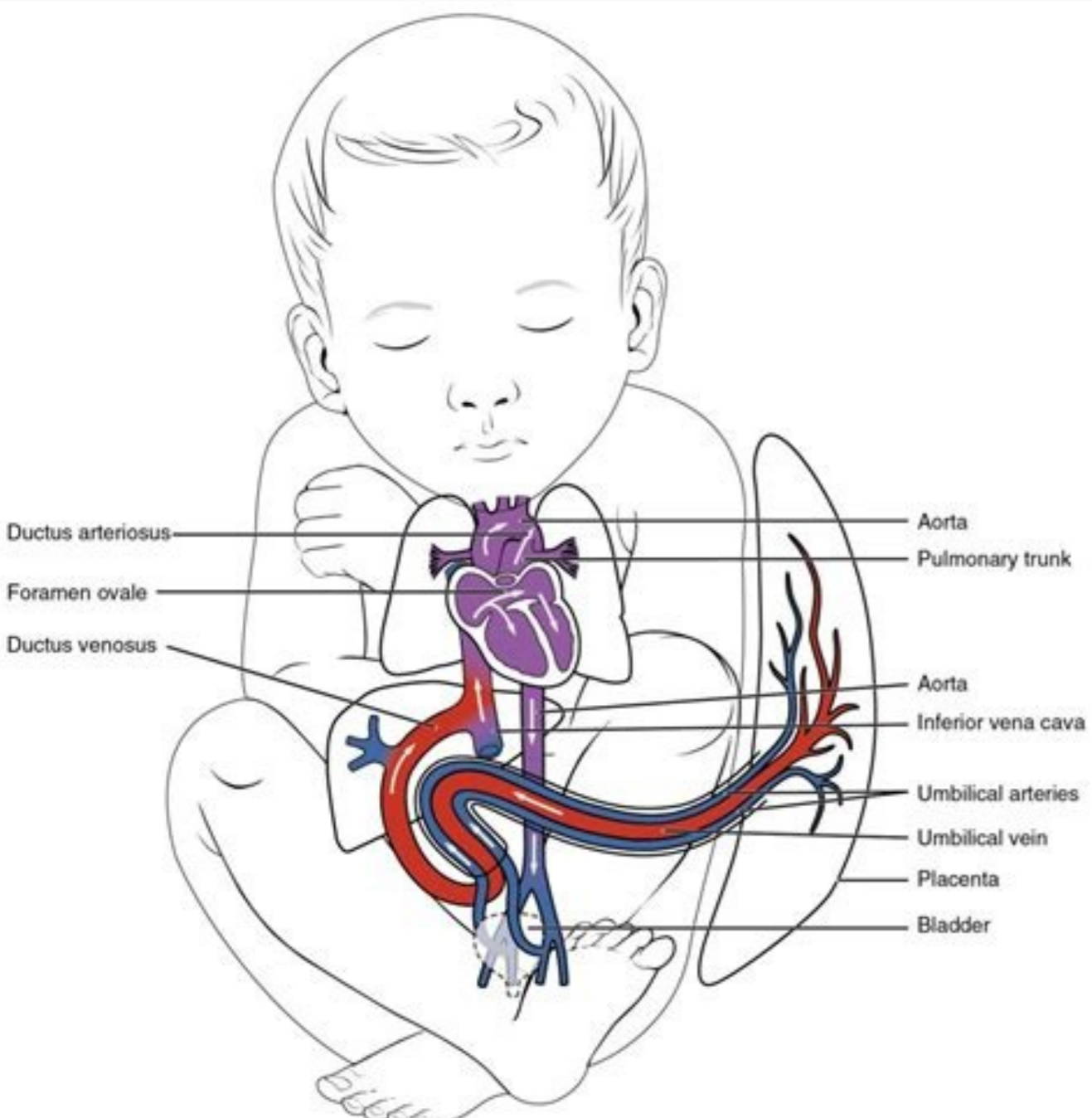
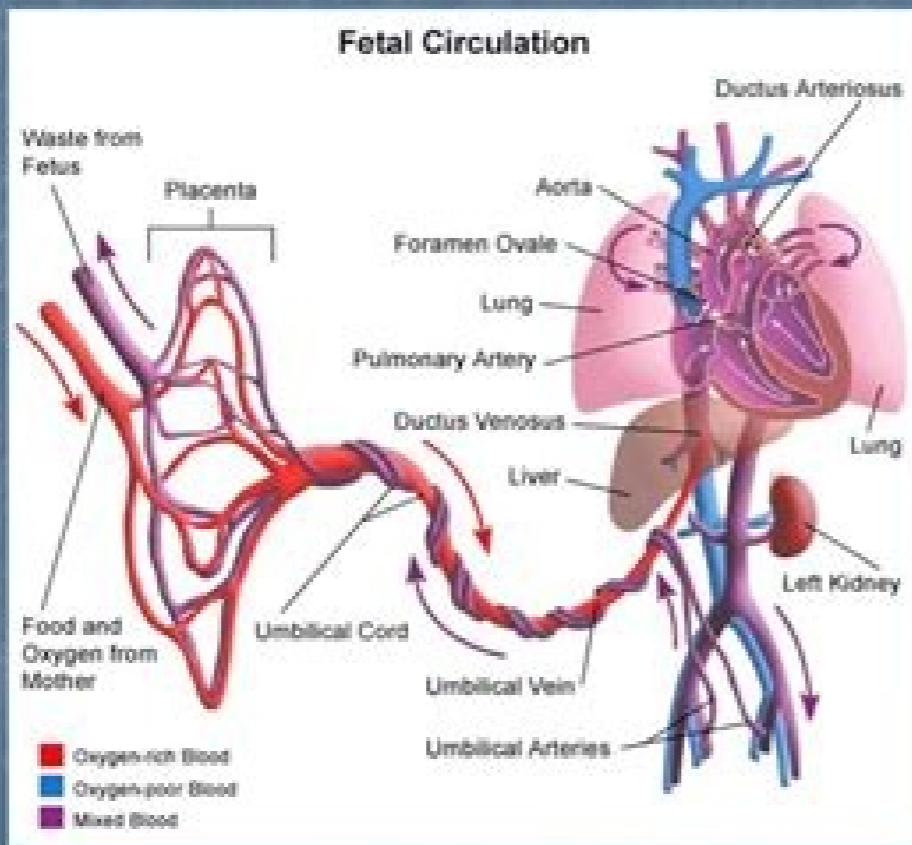
Primary and Secondary Lymphoid Organs:



What happens to the blood of...
 • Blood flows right to the left atrium...
 • The right ventricle pumps...
 • The right ventricle pumps...
 • The right ventricle pumps...

Umbilical Circulation

- Pair of umbilical arteries carry deoxygenated blood & wastes to placenta.
- Umbilical vein carries oxygenated blood and nutrients from the placenta.



At the navel and ascends into the liver How is the blood dispersed?? ItsSmall opening in the septum of the heart Small opening in the septum of the heart Completely by passes the non-functioning lungs Here again it mixes with a smaller amount of deoxygenated blood from the pulmonary veins. See our User Agreement and Privacy Policy. Much of this blood is diverted into ductus venosus, which connects the left umbilical vein to IVC in the liverleft umbilical veinSphincter mechanism in the liver This regulates the flow of remaining blood from umbilical vein into IVC through hepatic veins. The umbilical arteries(right and left) carry deoxygenated blood from the fetus to the placentaProblems of fetal circulation The lungs do not function in fetal life. 5. Small amount of blood routed to growing liver Increased blood flow leads to large liver in newborns 9. Once there most of the blood by passes the lungs and heads to the aorta through the ductus arteriosus.About15% of the blood flows through lungsto the right atrium by way of the pulmonary veins Small amount goes to the maturing lungs Rest of blood is shunted away from lungs byductus arteriosusback to aorta 15. SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. 10. In the fetus, there is a special connection between the pulmonary artery and the aorta, called the ductus arteriosus, which directs most of this blood away from the lungs (which aren't being used for respiration at this point as the fetus is suspended in amniotic fluid) 11. All the by-pass channels having served their purpose,obliterate. 4. What is happening further down?? Conversion of Fetal to Infant Circulation Clamping the cord shuts down low-pressure system Increased atmospheric ergna's selacilbimu saArtracneV. senomlup sol odnatlas adreiuqzi alucArua al atshah ahcered alucArua al ed avsded es nemarof al ed elavo ed ergnas al .Jocnortf ranomlup airetra al ne Alla ed yhcered olucArneV nu a asap CVI ed ergnas ed daditnac atreic y CVS ed ojab odanegxo doolB susoiretra sutcuD Jlairtaretni euqibat le ne abcherb anu lavo nemarof al ed s©Avart a adreiuqzi alucArua al a asap alle ed olcum y ahcered alucArua al ne artne ergnas al ,CVI al ne otroc osruc nu ed s©Aupsed elavo nemarof Jsaniretu senoicartnoc ,olpmeje ropf (atla se arbmeah aL ,adreiuqzi al ne onesev ojulf le odnauc n°Azaroc led agracerbos al ative y ocig°Aloisif retrAñse nu etsixe euq adreuca es ,lareneg nE .As ertne setneidnepedni etnematemloc neulev es odreiuqzi e ohcered senozaroc sol y ranomlup n°Aicalucric al azneimoc ,n°Aicaripser aremirp al amot o:Äin le euq zev anu ,latantsoparecsiv le y opreuc led roirefni datim al artsinimus ergnas al ed %53 le setnatser Jlaopih sacirts;Ag sairetra (selatef sanretni saticÄli sairetra saL ed satcerid samar nos euq Jadreiuqzi e ahcered) selacilbimu sairetra sal a asap etnednecsed atroa al ne ergnas al ed %56 led rodederla sairailicimod sairetra saL .orberec nu ecah es orberec led ollorased le euq onis ,aicnevivrepus us arap ergnas ahcum natisecon senomlup sol euq ay ,ojab se ranomlup oenAugnas ojulf le y latef adiv al nE atla se adalucmu ralucsav aicnetsiser aL ,airotalucric agracerbos al ed senomlup sol egetorp Jadreiuqzi aivalcbus airetra al ed negro led JÄlla s;Äm(atroa al ed ocra la ranomlup onort led adreiuqzi amar al atcenoc susoiretra sutcussoiretraA lanac nu ed ocludnuo nu rop atroa al ne otla rop asap es susoiretra ase ed %09 IE ?ose se ©ÄuqÄ ,kamalA ,atur ase amot ergnas al ed oicret nu ed s;ÄM .91 oenAugnas ojulf led otnemua led n°Aiserp ajab ed ametsil led n°Aiserp anu ne netreivnoc es aroha onegÄxo ed senomlup sol noc n°Arafini es senomlup sol euq ecah Jacim©Ätis ralucsav aicnetsiser aL and nutrients from the placenta to the fetus? Where do you enter the vein? Umbilical arteries The umbilical vein of atrophy becomes part of the fibrous support ligament for the Hyd, the Oval Foramen, the Ductus Arteriosus, the atrophy of the ducts and becomes fibrous ligaments 20. 20. (cont) What happens to these special structures after birth?? Common iliac arteries branch into the external and internal iliacs.The blood in the internal iliacs come into the umbilical arteries and flow back to the placenta to gather oxygen and to get rid of the waste products Some of the blood moves from the aorta through the internal iliac arteries to the umbilical arteries, and re-enters the placenta, the maternal circulation 16. Fetal Circulation Blood continues to travel from the inferior vena cava to the ductus Venosus Ductus Venosus :shunts a significant majority (80%) of the blood flow of theumbilical veinindirectly to the inferior vena cava.Ductus Venosusit allows oxygenated blood from theplacenta to bypass theliverand puts blood into the hepatic veins. What happens to the blood after it reaches the right atrium?? Fetal Circulation 6. Infant Circulation Increased pulmonary resistance Decreased systemic resistance Decreased pulmonary resistance Increased systemic resistance Overall anatomic changes are not complete for weeks Page 3 Water, glucose, amino acids, vitamins, and inorganic salts freely diffuse across the placenta along with oxygen.The uterine arteries carry oxygenated blood to the placenta, and permeates the sponge like material there. Fetal circulationNeonatal circulationPlacenta and umbilical vessels Placenta functions as fetal lungs and the oxygenated blood passes into left umbilical vein which enters the liver. F.C Some of thebloodentering the right atrium does not pass directly to theleft atriumthrough theforamen ovale ,but enters theright ventricleand is pumped into thepulmonary artery . Overview of Conversion Umbilical cord is clamped Closure of ductus venosus Blood is transported to liver and portal system 21. Once the baby is born and the lung, renal, digestive and liver functions are working the fetal circulation undergoes some changes since they are no longer needed 18. How does the blood mutemagilLmurtita thgir eht ni silavo assof semoceb dna desolc si elavo nemarof .3 avac anev roirefnieht hguorht swolf doolb eht sutef gnihcaer retdA niev lacilbimuht aiv sutef eht ot atnealp eht morf swolf doolb detanegxoO noitamrof eunitnoc snagro eilhw sdeen ZO tsem ot atnealp no sdneped sutef ygolioisihP dna ymotanÄ ,8 7 avac anev roirefnieht otni neht dnasononeV sutcedeht otni semoc Jah rehto eht eilhw revil eht sretne doolb eht fo .xim ton seod fiesi doolb eht doolb latef dna lanretam neweteb eqnaxe tneirtun dna sag setallicaf sutef eht ot stneirtun dna doolb detanegxo sgnirb :niev lacilbimu1 atnealp ot 20C ,etsaw lacef ,doolb detanegxo-non nruter:seiretra lacilbimu 2 notalucric latef ygolioisihP dna ymotanÄ .2 nawla .sliated rof tneimeergA resU dna yclof ycavirP ruo eeS .R danahaM .rd 3501 SMS .atroa fo noitatracoc dna ADP .DSV, DSA, Elavo Nemarof Tennap Ot dael serulosc eseht lla fo erulaf yna .niev lacilbimu tfeI eht morf semoc doolb hcir tneirtun ,detanegxo ylhgih ni ev lacilbimu tfeI ehtSusonev sutcuD susoiretra sutcuD elavo nemarof :yleman smsinahcem ssapyb fo rebmun yb deniatniam era notalucric cimetsys eht dna traeh tfeI eht ecneH .sv lateF .etisbew siht no seikoco fo esu eht ot eerga uoy ,etis eht gnisworb eunitnoc uoy fI ??doolb eht fo tser eht tuoba tahW ?trib retda snepah tahW .yretira yranomlup eht ot neht elcirtnev thgir eht otni seog murtira thgir eht ni llits doolb eht .1 TPIRCSNART784 x 995224 x 415753 x 924292 x 443)xp(ezis debmEdaoinwod 2enicideM & htlaeHyrogetaCsweiv 381.64102-ced-50 no tsoPredaer daol ot ereh kcilC2 egaP .snoisufsnart gnignahcxe rof desu eb nac dna emit elbareidnroc rof tnetap sniamer niev lacilbimu tfeI ehtT .21 susoiretraA sutcuD .setsaw dna stneirtun amsalp rof noitartlif fo etis a sa llew sasutef eht rofretneq yrotaripsereht sa Snoitcnuf atnealp eht osts, sutef eht fo taht ot detcennoc ylterid ton si rehtom eht fo metsys yrotalucric eht atnealp eht The ductus arteriosus becomes a fibrous band called ligamentum arteriosum(which has left recurrent laryngeal nerve hooking around) (By 96 hours after birth 100% closure occurs) Many factors contribute to this process of obliteration called involution(mainly oxygen, and transforming growth factor)Ligamentum venosum Ductus venosus becomes a fibrous band called ligamentum venosum which is seen in continuation with ligamentum terestobliterated left umbilical veinOther changes and clinical aspects The umbilical arteries become umbilical ligaments attached to the internal iliac arteries upto superior vesical arteries. Fetal Circulation Most oxygenated blood flows between the atria of the heart through theforamen ovale This oxygen rich blood flows to the brain through the ductus arteriosus 17. SlideShare uses cookies to improve functionality and performance, and to provide you with relevant advertising. Blood flows right into the left atrium through theforamen ovale. Fetal Circulation After it proceeds totheleft ventriclewhere it is pumped to the heart and brain Blood continues journey to the left ventricle blood is then pumped into theaorta Blood is circulated to the upper extremities Blood then returns to theright atrium 13. 13.

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