

## Events summary

Date	Event
22nd -23rd	Heart <b>begins</b> to beat
18th	Heart primordium is first evident
beginning of the 4th week	<b>Blood flow begins</b>
middle of 4th week	<b>Endocardial cushions</b>
Middle of 4th week - end of 5th week	Partitioning of <b>primordial heart</b>
5th week	Proliferation of mesenchymal cells ( <b>Endocardial Cushions</b> ) appear in the wall of trunks arteriosus, they form: <b>Spiral septum</b>

## Major cardiac abnormalities

Disease	Important information
<b>Atrial septal defects (ASD)</b>	Types: 1- Absence of <b>septum primum &amp; secundum</b> → <b>Common atrium</b> . 2- Absence of <b>septum secundum</b> . 3- <b>Lage foramen ovale</b> : Excessive resorption of septum primum.
<b>Ventricular septal defect (VSD)</b>	- <b>Roger's disease</b> -Absence of <b>membranous</b> part of <b>interventricular septum</b> (persistent IV foramen)
<b>Tetralogy of fallot (رباعية فالوت)</b> <b>Blue baby</b>	1- VSD 2- Pulmonary stenosis 3- Overriding of the aorta 4- Right ventricular hypertrophy
<b>Transposition of great arteries (TGA)</b>	- <b>Abnormal rotation</b> of aortic pulmonary septum. -One of the most common causes of <b>cyanotic heart disease</b> in newborn. يصير الإيورتا يأخذ مكان ووظيفة البلموناري ثين والبلموناري ثين يأخذ مكان ووظيفة الإيورتا.
<b>Persistent truncus arteriosus</b>	-Failure of the development of aorticpulmonary septum -usually <b>accompanied with VSD</b>