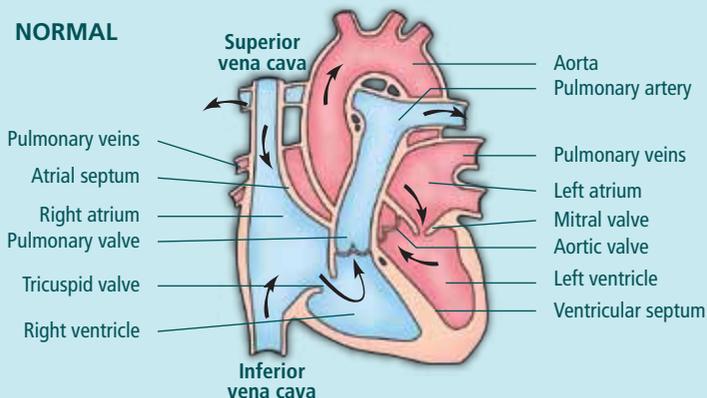


Pulmonary Atresia With Intact Ventricular Septum

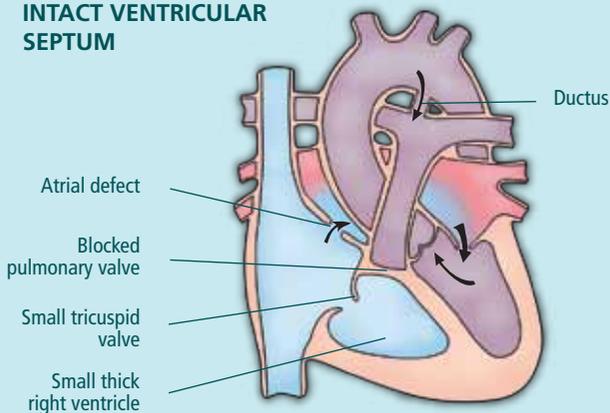
WHAT IS IT AND HOW DOES IT AFFECT THE HEART?

There is complete blockage between the heart and the main artery to the lungs. The blood supply to the lungs depends on the ductus arteriosus remaining open. Sometimes the size of the right pumping chamber can be very small and there are abnormal connections to coronary arteries.

NORMAL



PULMONARY ATRESIA - INTACT VENTRICULAR SEPTUM



HOW WOULD IT AFFECT MY CHILD?

If the blood supply to the lungs is inadequate, then your child will become blue.

HOW CAN IT BE TREATED?

The treatment will depend on the size of the right ventricle and its outflow tract. Usually the first procedure is to keep the duct open by giving a drug called prostaglandin whilst awaiting transfer to a centre for the next procedure. Several types of procedure could be done.

- Radiofrequency valvotomy and percutaneous balloon valvuloplasty where the closed lung valve is opened up in the catheterization lab.
- Stenting of the ductus arteriosus or undergoing a Blalock-Taussig shunt (diverting the blood from the aorta to the lung artery).
- Improving the flow from the right atrium to the left atrium using a balloon septostomy in the catheterisation lab if the flow is restrictive.

WHAT WILL HAPPEN TO MY CHILD IF UNTREATED?

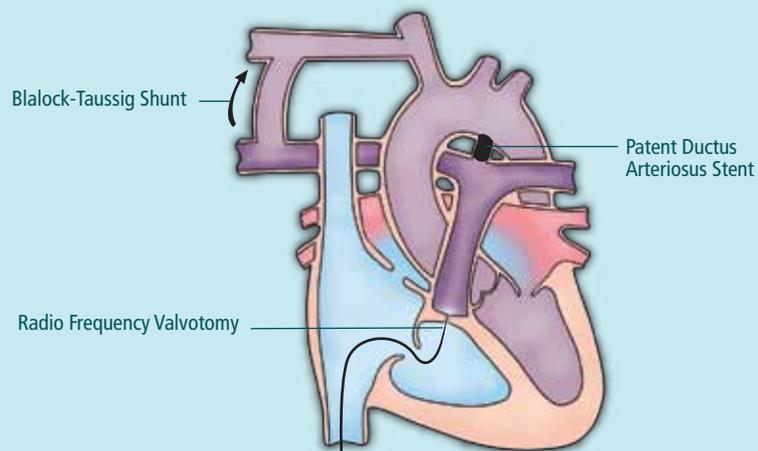
This condition is not compatible with life if left untreated.

WHAT HAPPENS AFTER SURGERY?

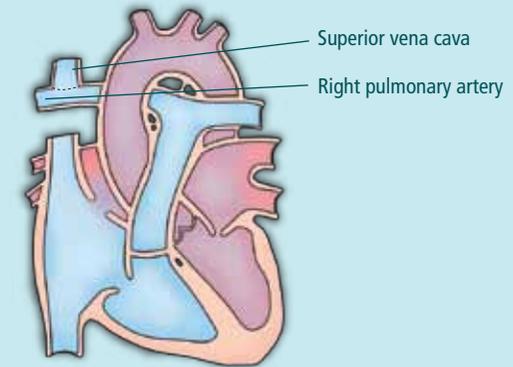
As your child grows, there may be a need for further procedures depending on the growth of the right ventricle and the flow to the lungs. If the right ventricle remains small, then your child may undergo.

- **Glenn shunt** - where the veins from the head and neck are attached straight to the right lung artery.
- **Fontan procedure** - where the rest of the veins are diverted straight to the lungs and bypassing the heart altogether.

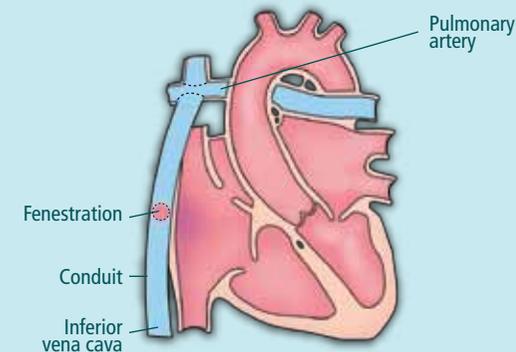
RADIOFREQUENCY VALVOTOMY



GLENN SHUNT



FONTAN PROCEDURE



Institut Jantung Negara (245794-V)
145, Jalan Tun Razak, 50400 Kuala Lumpur



Published by Corporate Communications Department

- As your child grows, there may be a need for further procedures depending on the growth of the right ventricle and the flow to the lungs.



WHAT HAPPENS
AFTER SURGERY?