

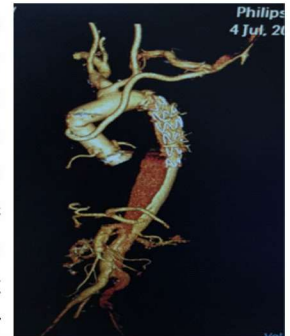
# BENTALL + E-VITA TO TREAT AORTIC PATHOLOGIES

**A**ortic pathologies are one of the most dreaded problems for patients as well as doctors treating them. Advanced age, smoking or genetic inheritance may result in the aortic wall weakening and bulging, leading to its rupture. Aortic rupture remains a significantly fatal condition, with most patients only surviving for 6 hours if there is no surgical intervention. Another condition is aortic dissection, where a tear develops in the Aortic vessel wall. In this case, the artery may rupture and only 1 in 5 survive, accounting for 80 risks of death. Repairing the aorta is still a very complicated process. Depending on their disease, some patients would need to undergo two separate procedures, increasing both costs and risk to the patient. The

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subset of patients having aortic problems are also associated with lots of risk factors like diabetes, hypertension, old age, and many present as surgical emergencies with end-organ malperfusion increasing the risk of surgery to a great extent. But with the expertise, facilities, and capabilities available at Eternal Hospital, the cardiac surgical team has been able to utilize the latest technique — ' **Frozen Elephant Trunk** ' to address the aortic pathologies in a novel way to save more lives.' Frozen elephant trunk' is the total hybrid aortic arch replacement used to repair aortic aneurysms and dissection. With this approach, patients now only need a single operation for those complex pathologies that require two procedures, reducing cost and risk to the patient. We have successfully carried out this procedure at our hospital in two patients using the E vita open plus hybrid graft system.

This device enables a one-stage procedure treatment of this condition by combining the surgical arch repair and the endovascular descending thoracic repair, providing a more cost-effective solution for the health system and allowing the patient to avoid a second surgery. This center is among very few of its kind in the country to successfully carry out this procedure.



**Dr. Ajeet Bana & CTVS Team**

Chairman - Cardiac Sciences