

Navigating a Baby's Heart: Resolving Complex Cases with 3D Printing

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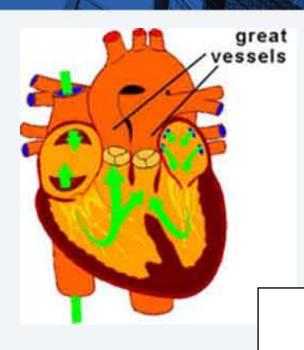


Everything has beauty, but not everyone sees it.

-Confucius



- Diagnosed in the womb with a complex congenital heart defect
- How to reconnect ventricles to the lungs and the body without causing obstruction or disrupting rhythm conduction pathways?
- Was full repair possible, or would multiple palliative surgeries be needed?





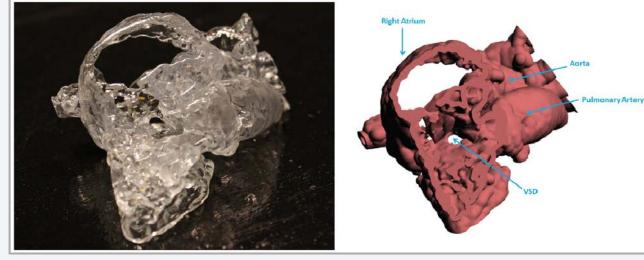


From Cardiac CT... to Holding a Heart in One's Hand



Ultra-low-radiation CT at 1 day of age (2 CXRs of radiation!)

3D-printed heart model





A Successful Outcome



Surgeons use 3D-printed heart to save

News > UK News

life of 2-week-old baby

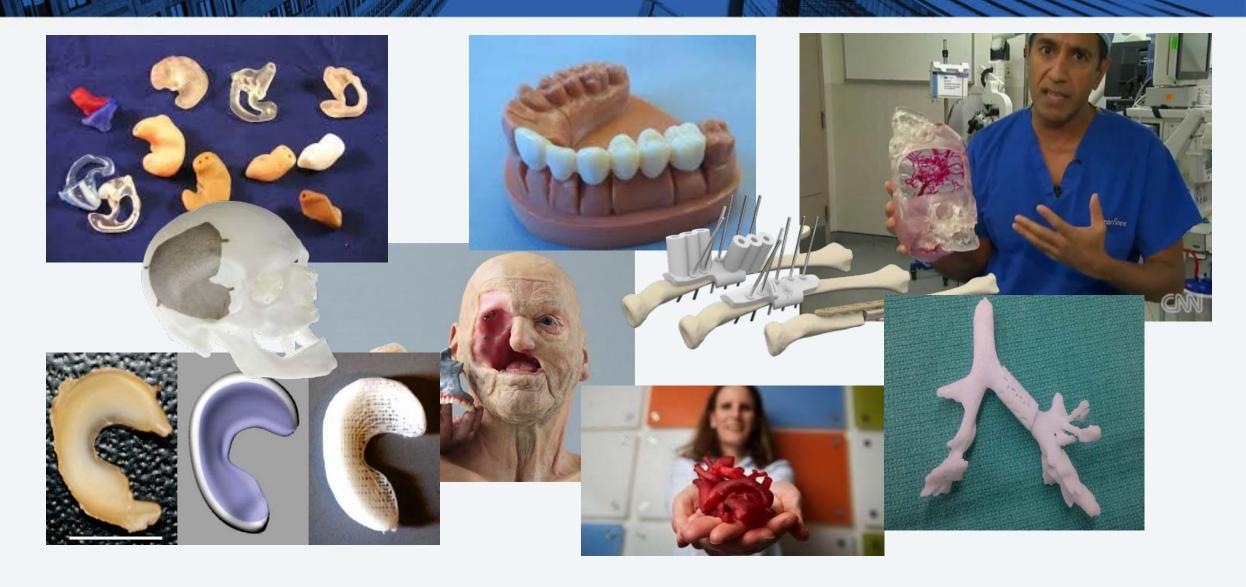
DOCTORS USE 3D-PRINTED HEART TO HELP SAVE BABY'S LIFE WITCRUDE(Nov)
4.45 -1.63%
87.40 a

3D-printed heart saves a two-week-old baby's life following incredible operation

Doctors in the US have used ground-breaking surgery to rescue a child with a serious heart condition



A New Frontier of Medical Applications





Future of 3D Printing in Medicine

Niche Technology or New Clinical Paradigm?



Implementing 3D Printing in Patient Care

Building a 3D Printing
Program at
Columbia/New York
Presbyterian



