

3D Printing of Organs or Tissues for Medical Training & Surgeries

- **Heart**
- **Stomach**
- **Liver**
- **Tumor**

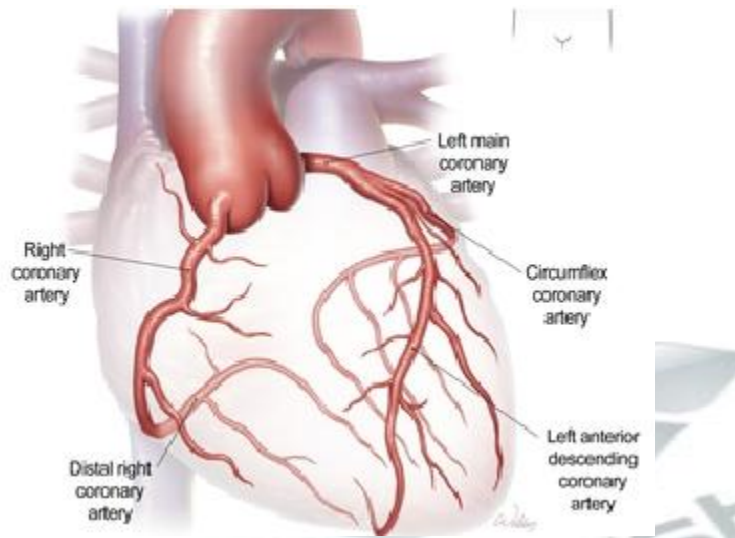
Doctors hope to have 3D printed solid models with detailed 3D structures for them to make operation plans and improve surgeries.

13 March 2015

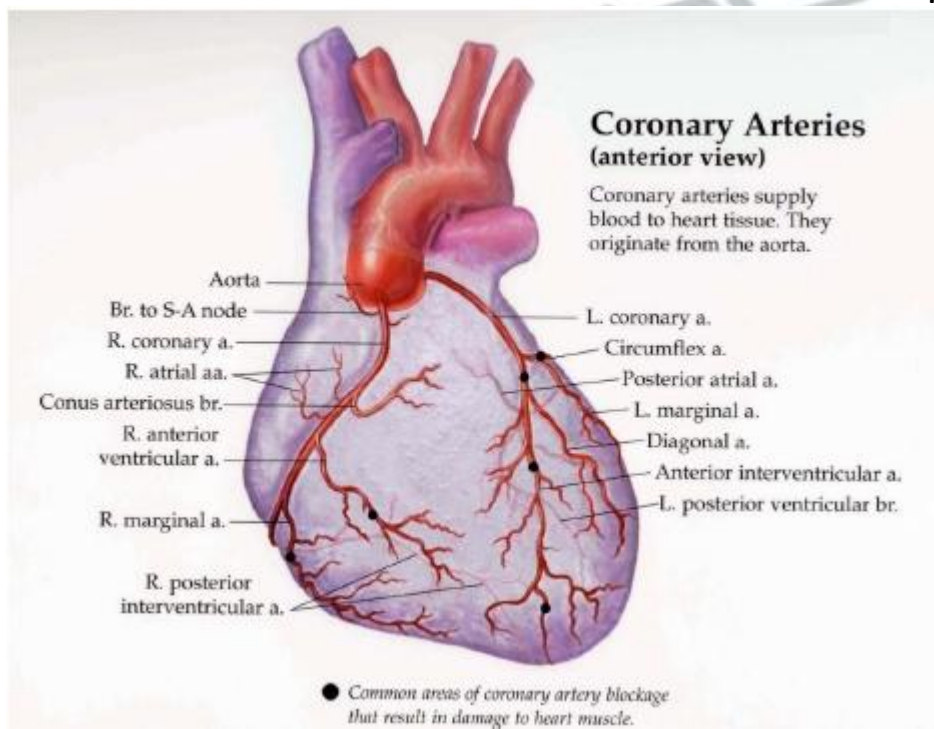
Coronary Artery Disease and Coronary Bypass Surgery

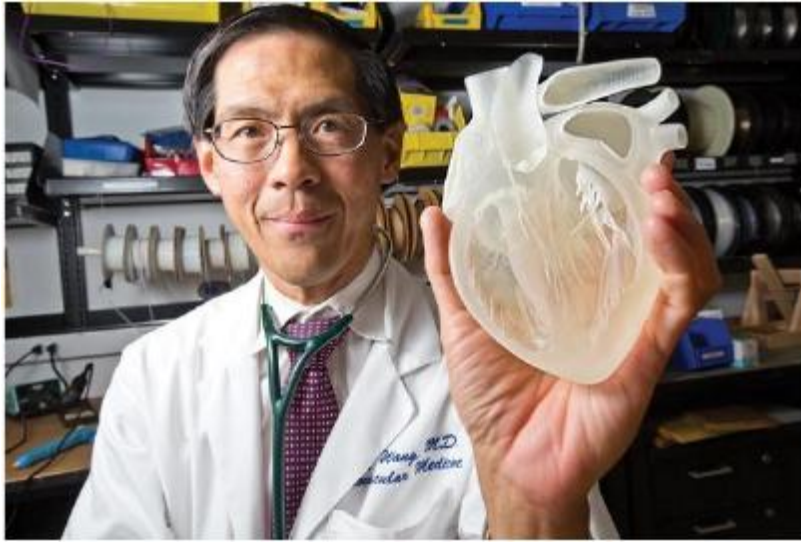
<https://www.bcm.edu/healthcare/care-centers/cardi thoracic/procedures/coronary-artery-disease-coronary-bypass>

Cardiac
vessel anatomy

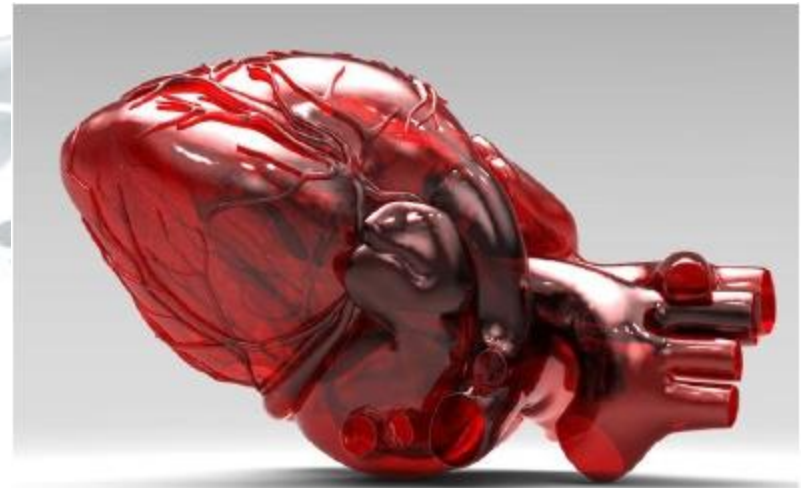


Narrowing of the coronary artery





http://www.bizjournals.com/sanjose/print-edition/2013/07/05/charting-the-heart-with-3-d-printing.html?s=image_gallery



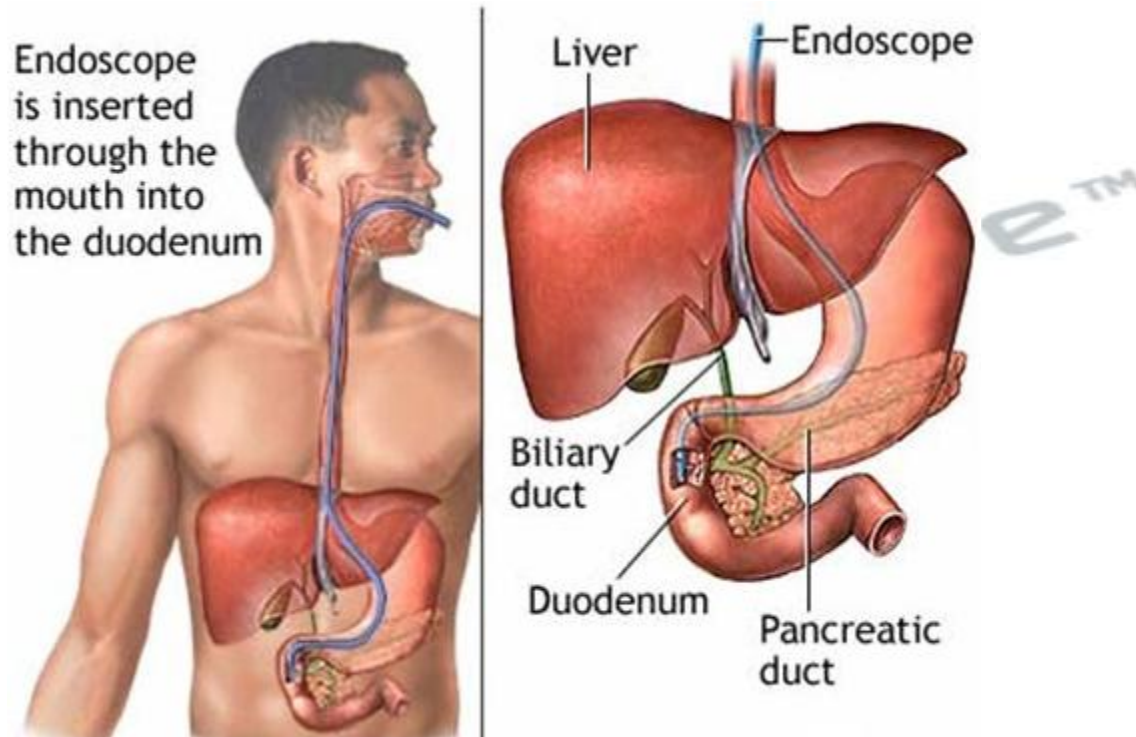
<http://wonderfuleengineering.com/3d-printed-heart-saves-the-life-of-a-14-month-old-kid/>

<https://oaklandnorth.net/2013/10/21/oakland-3d-printing-company-takes-production-industry-by-storm/>

Endoscopic ultrasound (EUS)-guided biliary drainage (BD)

(Endoscopic retrograde cholangiography, ERCP)

(胆汁引流)



Background: EUS-guided biliary drainage (EUS-BD) has emerged as an alternative rescue method in patients with failed ERCP. Opportunities for teaching and training are limited because of a low case volume at most centers.

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