

Course on Human Physiology: Body Fluids & Circulation

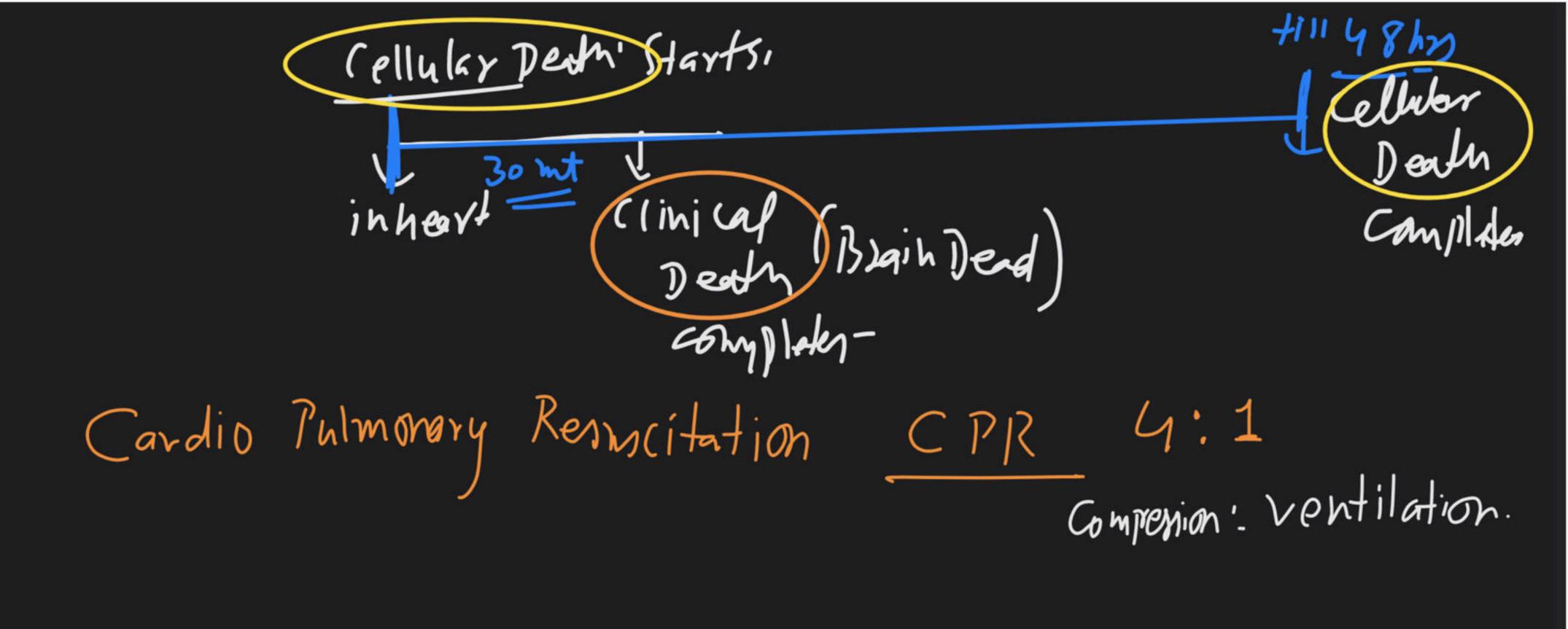


## 1 Schcemic Heart Distase

J Schaemia -> Condition of Reduced Blood

Try Poxia -> Condition of Lesser Oz Supply
than demand

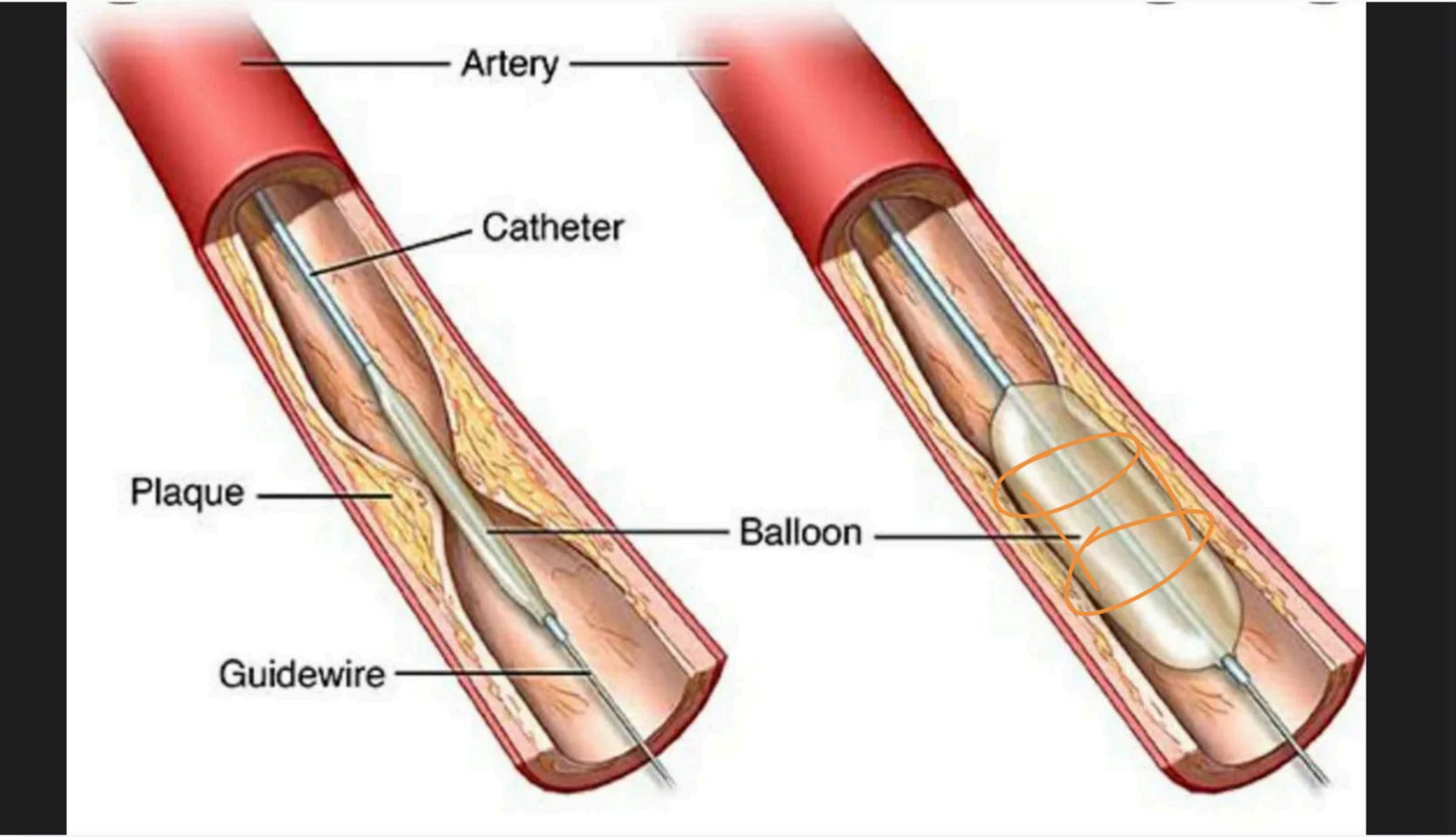
Exhertion Departion of Cholestral Lumen of > Reduced Blood inside Walls of C.A. Mypoxia CA recomes flow to walls Narrow of Heart 1 Blood (holestero) angina I Schalmic Heart) Pectoris X CABG High fat Stips controls Anoxia
Cxhrtim Diet -Necrosis ( Death Start) Atherosclerosis CoHA ONS Anoxia Hert angiography Myo Grdial Infarction Angio Plasty Sclaro = Mond Coronery Artry By-Pass Grafting. Completes)

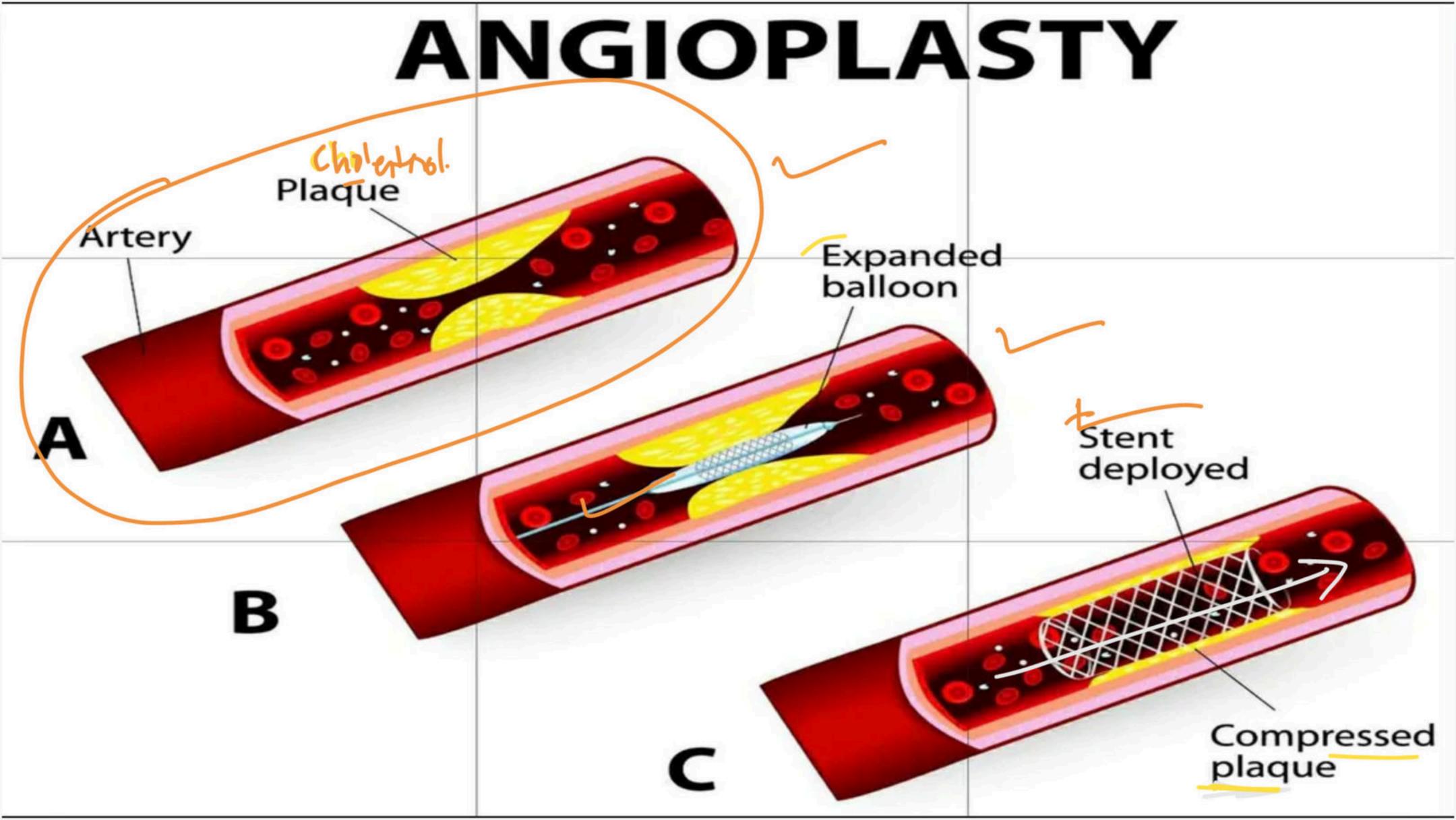


(erebzal \_\_\_\_ Brain Death \_\_\_ (Cadweric Translation Completer

with each sheepine theat Attack amount of Living Cordiactisshe gras on decreening NEET Heart Stimulation peart stimulation peart stimulation Cerebral => Stroke
Thymbosis Coronary Thrombosis Rys- vas-dialetor. Ry -> Strepto Kinase (Clot buster)

NEET Xenotran plation (Pig) A Blockage in Which Branch of CA is Mont fatal LAD Branch of (A (Widow's Artery)





## Ischemic heart diseases

If the lumen of any of the coronary artery gets narrowed due to obstruction or cholestrol deposition, the cardiac tissues enter a condition of more demand and less supply whenever the person performs exhertion. Under such hypoxic conditions a pain might arise in heart muscles, this condition is called **Angina Pectoris.** This condition is reversible when the demand supply ratio is restabilised. (i.e. when the person stops exhertion and rests). A coronary artery by pass grafting (CABG) may be required to provide additional channel of blood suppply in such cases.

In coronary artery By pass grafting a part of internal mammary artery or a segment of patients own saphenous vein is used as the By pass channel.

Myocardial Infarction (M.I.) - This is cellular death of cardiac tissue due to anoxia.

When the blood supply to the heart completely stops due to complete blockage of a coronary artery, under reduced oxygen condition the heart tries to restablish the blood supply by working even harder, thus aggravating the situation even further. Due to this reason the cardiac tissue starts dying by necrosis and myocardial infarction sets in, this is an irreversible condition. It is also called as HEART ATTACK in common language.

A blockage of left anterior descending artery (LAD) can be most fatal for the heart, (widows artery)

