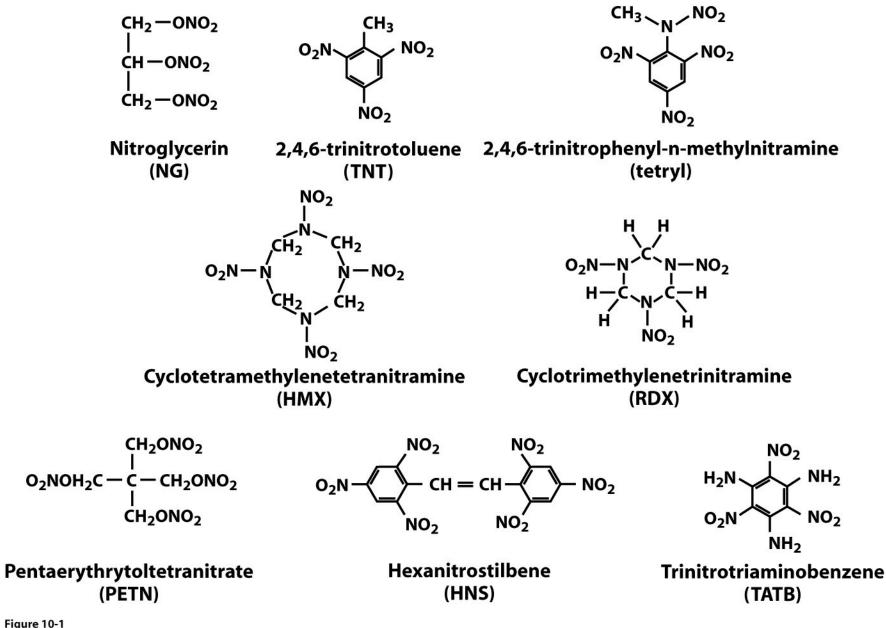
Chemistry of Explosions

Chapter 10



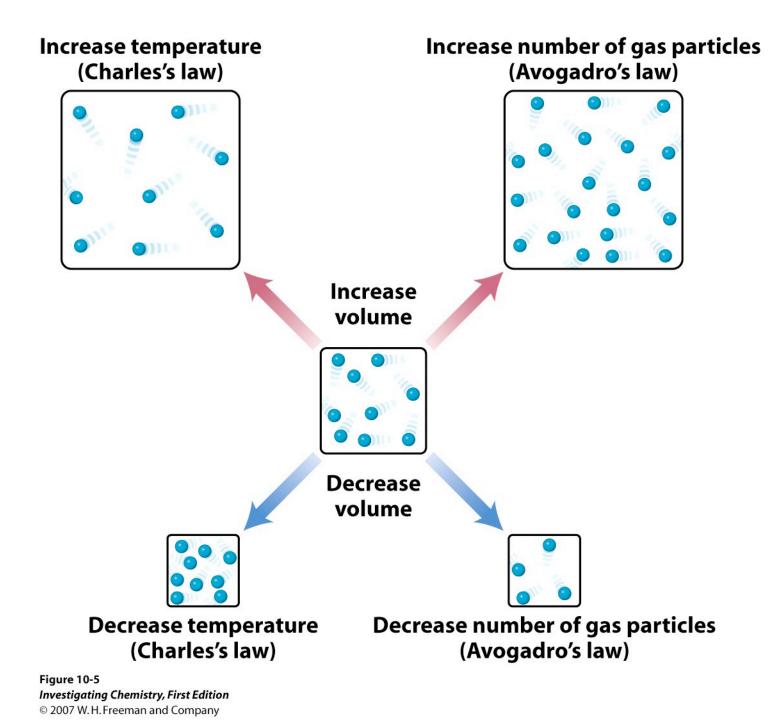
Chapter 10 Opener Investigating Chemistry, First Edition © 2007 W.H.Freeman and Company

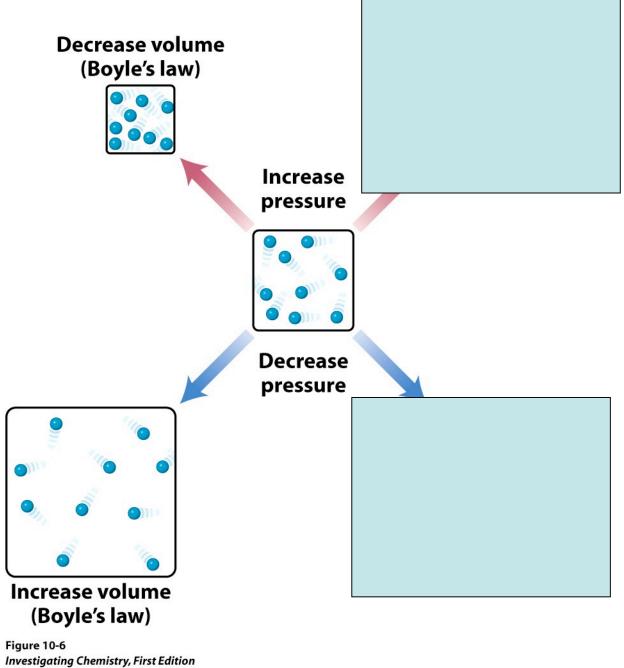


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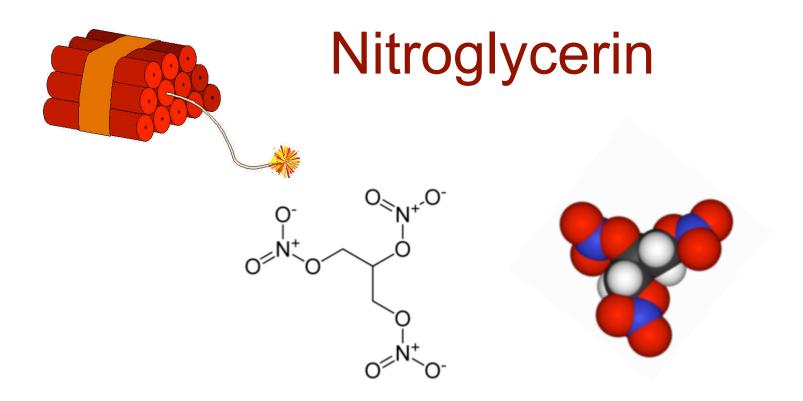


Unnumbered figure pg 304 Investigating Chemistry, First Edition © 2007 W. H. Freeman and Company





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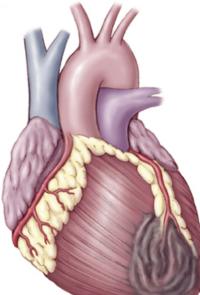
Dynamite is nitroglycerin mixed with clay

The clay stabilizes the explosive makes it resistant to shockwave detonation

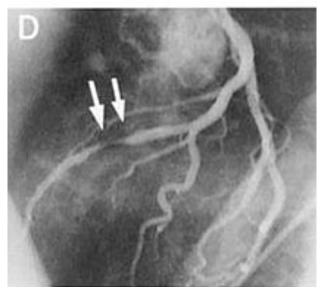
Needs a lighted fuse or detonator to ignite

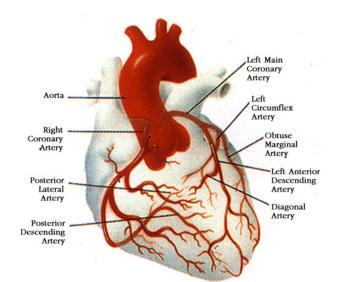


Coronary Arteries and Nitroglycerin

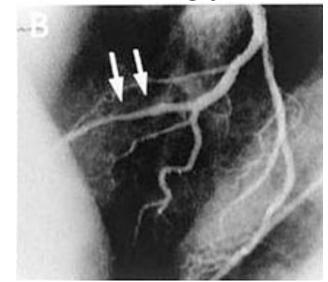


Without Nitroglycerin





With Nitroglycerin



Lipoproteins: A Bad Wrap ??

Cholesterol-packed interior

Protein and lipid outer surface





"Bad" Cholesterol

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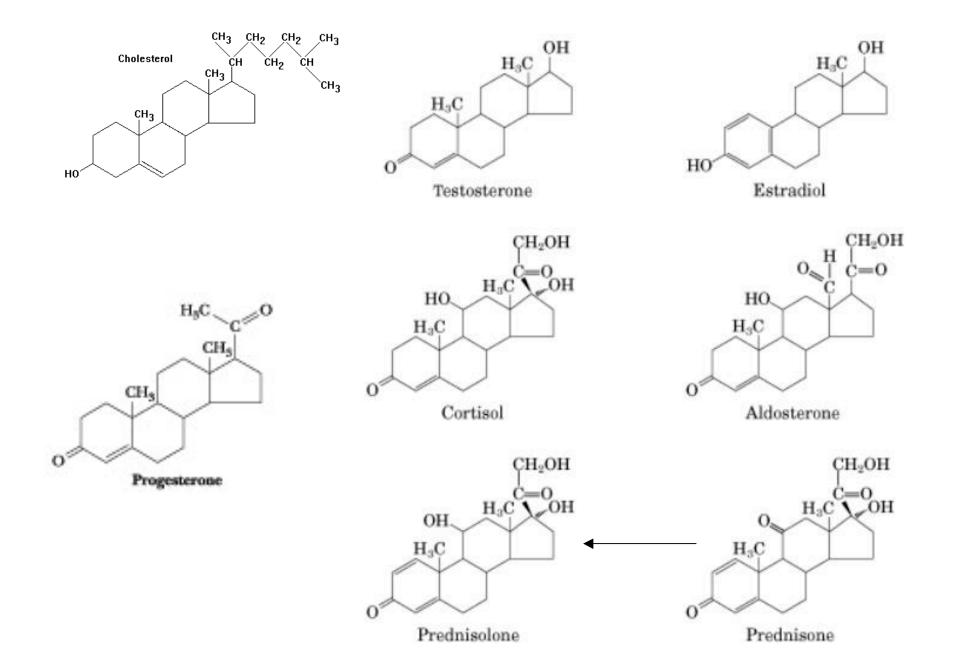
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You'll see why in a minute...

from cells to liver for disposal "Good" Cholesterol

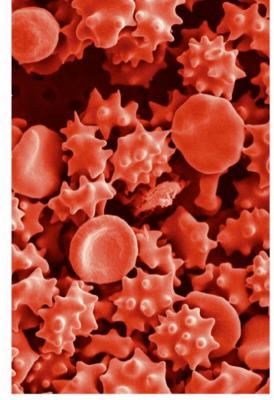
Removes cholesterol from your blood





(a)

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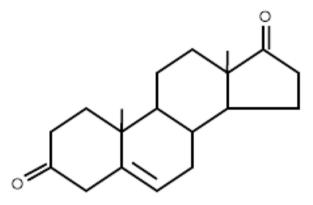
(b)



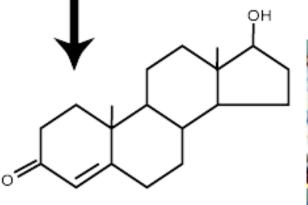
(c)

Androstenedione and Steroids





Andostenedione



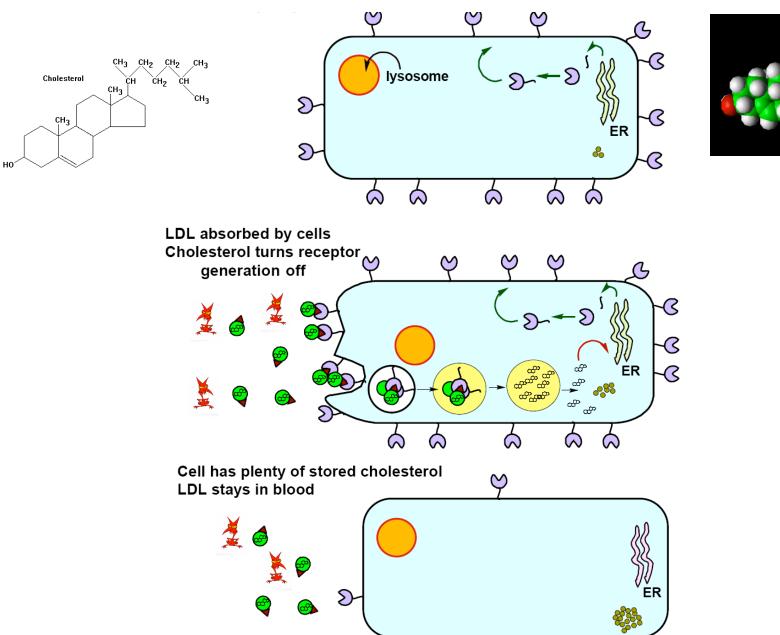
Testosterone



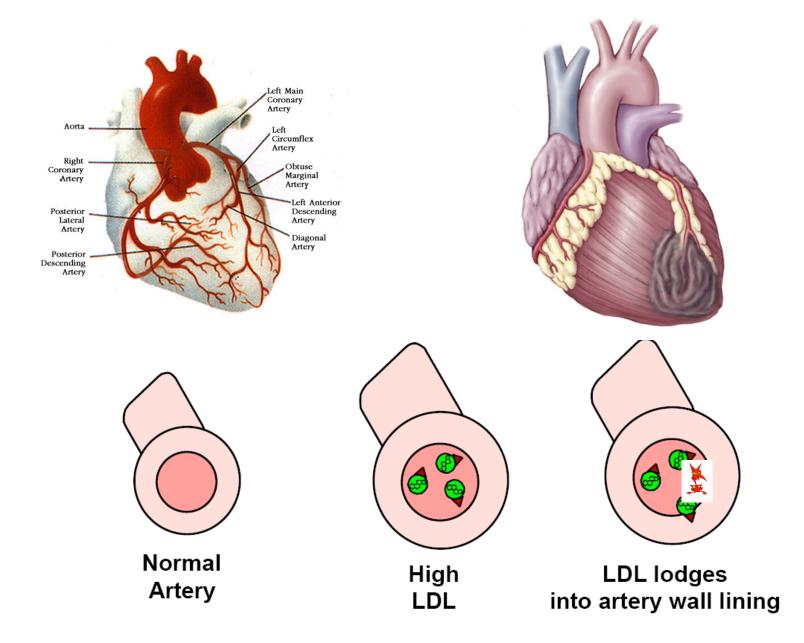




Cholesterol

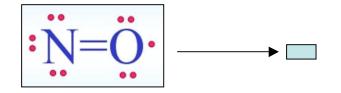


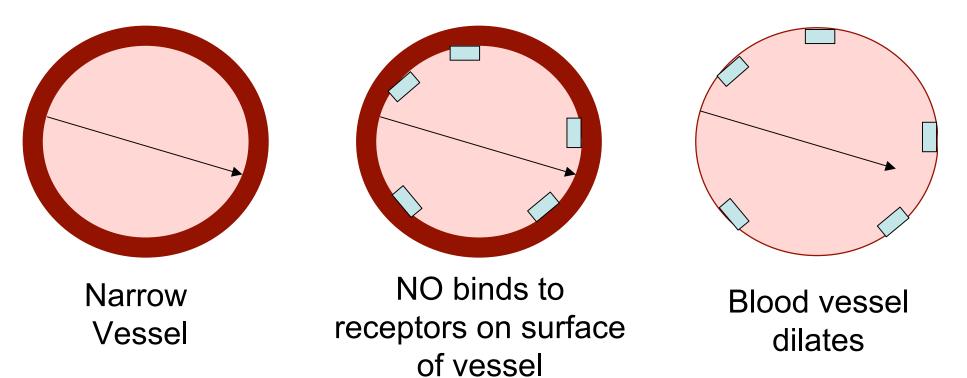
Arteriosclerosis and Heart Attack



Arteriosclerosis and Heart Attack Cholesterol release LDL enters White blood cells lining and oxidized respond Plaque can rupture White blood cells **Causing clots** through consume cholesterol artery blockage artery wall lining forming plaque, narrow artery

Nitric Oxide





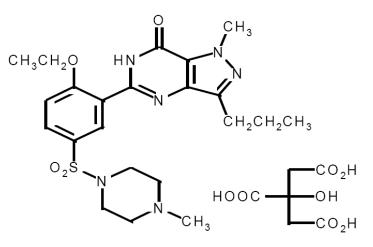
UK-92480

Discovered in 1989 by Pfizer

Treat hypertension (High BP)

On the scrap heap of failed drugs

During a 10-day study of angina patients, noticed a strange side effect....





If a relaxing moment turns into the right moment ...will you be ready? Mark Martin 0 ushracing.com VIAGRA (sildenafil citrate) when denafil citrate) **Cialis**[®] (tadalafil) tablets AGIR EVITRA[®] (sildenafil citrate) choose the moment CH₃ CH₃CH₂O ΗN сн,сн,сн, HCI ୍ଡୁ ΗŅ HCI со_н Cialis[®]20 mg HOOC tadalafi сн. со_н _evitra Cialis Viagra