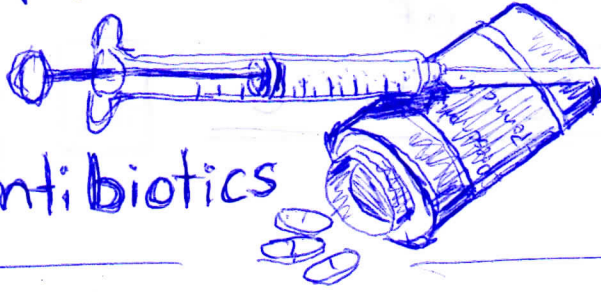


accines  
ent  
pre  
viruses

# Vaccines and



Antibiotics

Antibiotics  
\*stray\*  
acteria  
\* By betray, I mean KILL

Pathogen = Disease causing organism

Virus  
DNA wrapped  
in protein

Bacteria  
prokaryotic single  
cell organism

Before you get infected with a virus you get a VACCINE

When you become infected by bacteria that causes disease you get sick

VACCINES are injections of dead or weakened virus

After you are sick you take an ANTIBIOTIC

The VACCINE causes your immune system to make ANTIBODIES

ANTIBIOTICS kill bacteria and stop them from making us sick

The ANTIBODIES cause your immune system to kill the virus anytime it enters your body so it cannot make you sick

Bacteria CAN develop  
Mutation  
Natural selection  
Resistance to ANTIBIOTICS