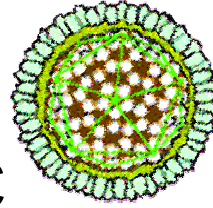


Hepatitis A, B, C

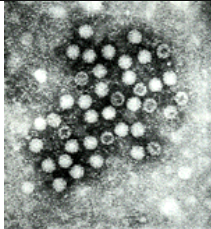
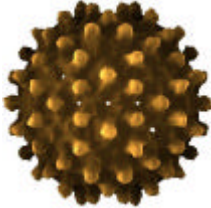
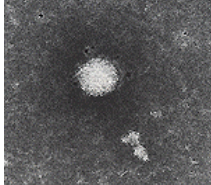


Research Questions on Hepatitis Viruses

By Patty Sidelsky, Cherokee High School, Marlton, NJ

1. Why are the Hepatitis Viruses a public health priority? What is the rate of infection in the general population? Why is the rate higher in cities?
2. What are the three major types of Hepatitis ?
3. What is a blood borne pathogen? What precautions should always be taken when handling blood by products or when treating any person with a wound or cut?
4. What are the clinical symptoms of Hepatitis? How is Hepatitis diagnosed with laboratory tests.
5. What is the difference between a DNA virus and a + RNA or sense virus in terms of its replication and activity in a cell? Compare and contrast these.
6. Some forms of Hepatitis may become chronic infections. Explain.
7. What vaccinations have been developed to prevent Hepatitis?
8. What current research is helping scientists to treat patients or develop therapies for the future?

Use the Web Resources Below to Initiate your Web Investigation

Hepatitis Virus	Picture	Viral Type
Hepatitis A - food borne pathogen		Picorniviridae- Enterovirus RNA virus -- m RNA or + RNA or sense
Hepatitis B - blood borne pathogen Viral capsid structure		Hepadnaviridae DNA virus- ss
Heptatitis C -		RNA virus - + RNA or m RNA or sense

Web Sites

Viruses - General References

<http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/V/Viruses.html>

<http://www.epidemic.org/theFacts/viruses/>

The Hepatitis Viruses

Hepatitis A- <http://vm.cfsan.fda.gov/~mow/chap31.html> - Outline of disease characteristics

Hepatitis B- <http://www.globalserve.net/~harlequin/HBV/geninfo.htm> - Outline of disease characteristics

<http://www.hon.ch/Library/Theme/Hepatitis/> - Comprehensive references

<http://www.cdc.gov/travel/diseases/hbv.htm> - CDC information

Hepatitis C- <http://www.who.int/inf-fs/en/fact164.html> - Fact sheet

<http://www.hhmi.org/news/doudna.html> - HHMI researcher announces mechanism of action for C virus

Hepatitis D- <http://www.cdc.gov/ncidod/diseases/hepatitis/d/>

Hepatitis E - <http://vm.cfsan.fda.gov/~mow/chap32.html> - Outline