## Metabolic disorders

Reye's syndrome	Wilson disease	Hemochromatosis
Extremely rare	autosomal recessive	autosomal recessive
	ATP7B gene	<i>HFE gene</i> at the short arm of
		chromosome 6
Affect brain & liver	Prevents the body from removing extra copper	Absorbing more iron (5 to 20
		times than the normal )
		excess iron is stored in liver,
		heart, pancreas
Most commonly in children ( 4-14 ) in recovery	About 1 in 40,000 people get Wilson disease. equally in	The HFE protein regulates the
from viral infection	men and women, Symptoms usually appear between ages	production of a protein called
""using aspirin in treating viral infection can	<mark>5 to 35</mark>	<mark>hepcidin</mark> manufactured in the
cause Reyes syndrome		liver, and it determines how
		much iron to absorb & release
		The most known mutation of
		HFE is C282Y
Mitochondrial dysfunction	Kayser-Fleischer rings is the most unique sign of the	Phlebotomy, which means
This leads to cerebral edema and increased	disease as a result <u>from buildup of copper in the eyes</u> . They	removing blood the same way it
intracranial pressure (ICP)	appear as a rusty-brown ring around the edge of the iris	is drawn from donors at blood
	and in the rim of the cornea	banks.
	In Liver or spleen: swelling, yellowing of the skin and	
	whites of the eyes. Rarely, acute liver failure	
	In CNS: problems with speech, swallowing, or physical	
	coordination	
No cure, But can be managed by protecting the	initially :	Initially <u>:</u>
brain against irreversible damage (by reducing	The removal of excess copper using drugs like	you may have a pint (about 470
brain swelling, preventing complications in the	(d-penicillamine and trientine), reduction of copper intake,	milliliters) of blood taken once a
lungs, and anticipating cardiac arrest)	treating of any liver or central nervous system damage.	<u>week</u>

