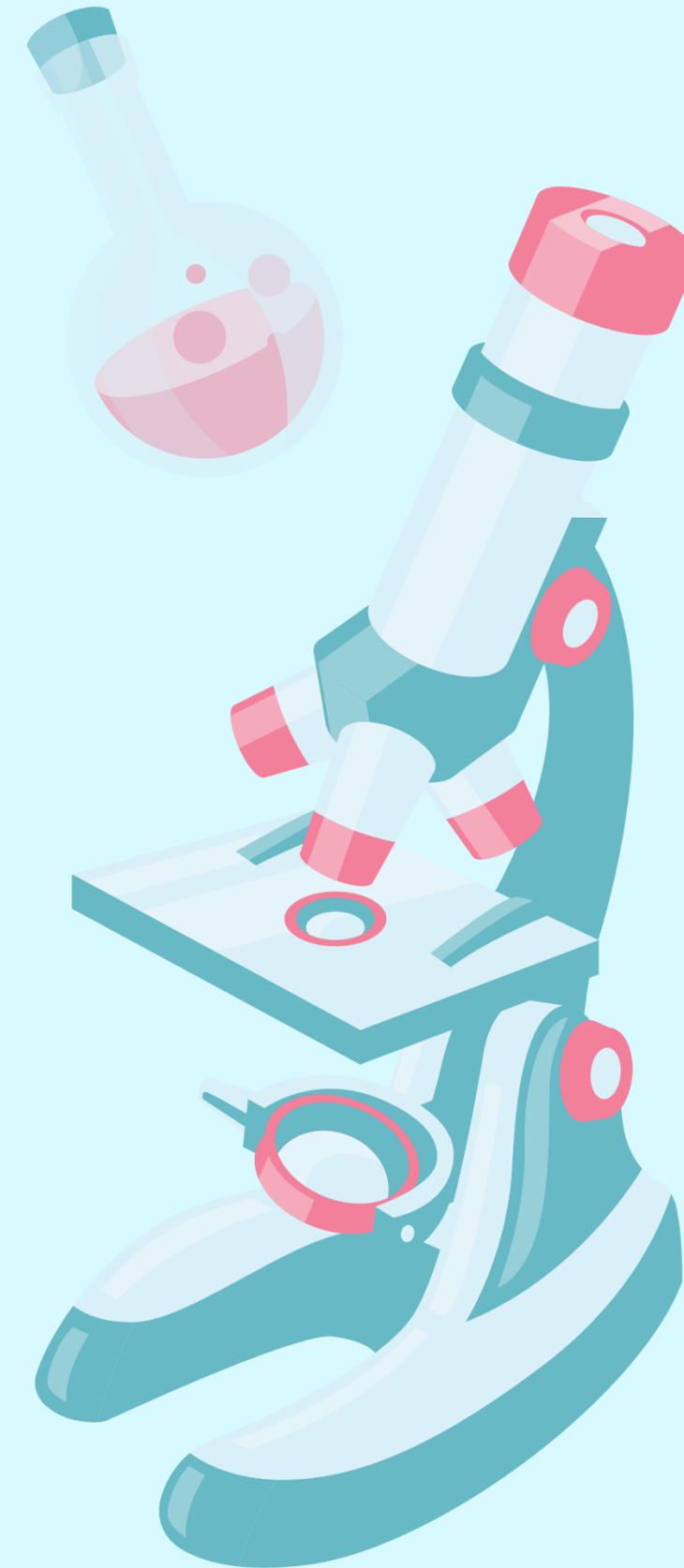
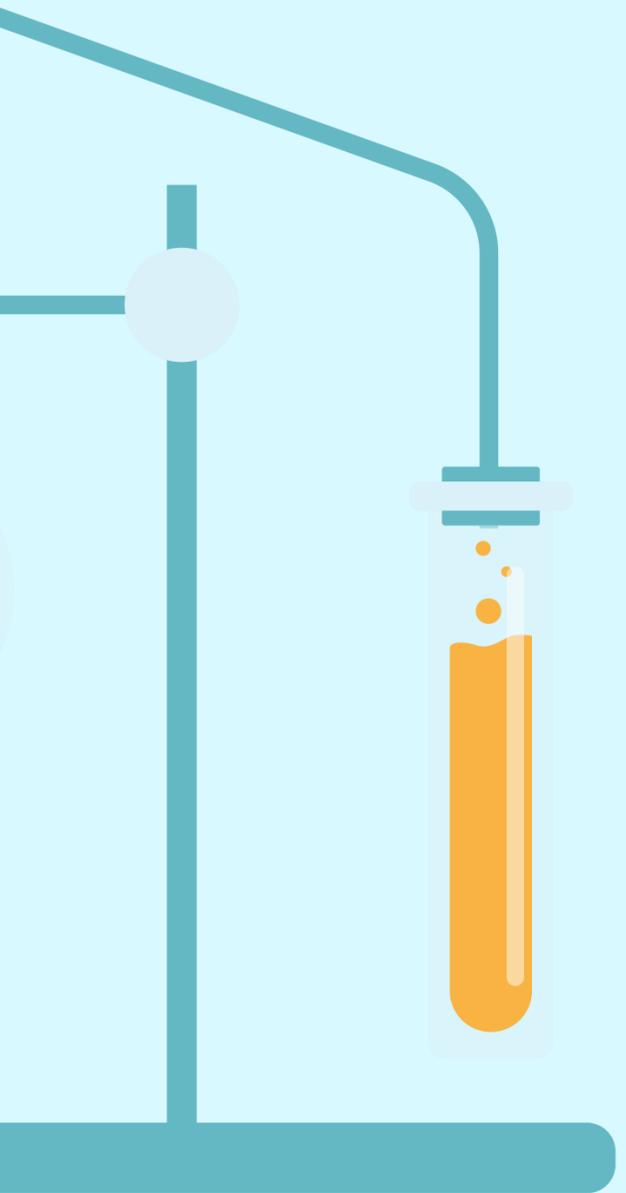




GOUT

SECOND STAGE

DR.RASHAD AL - TUUAMAH
MEDICAL BIOCHEMISTRY



ETYMOLOGY :

the term "GOUT" comes from the old french word "GOUTE," which means "drop."

this, in turn, is derived from the latin word "GUTTA," also meaning "drop." the association relates to the historical belief that GOUT was caused by drops of excessive bodily humors accumulating in the joints.

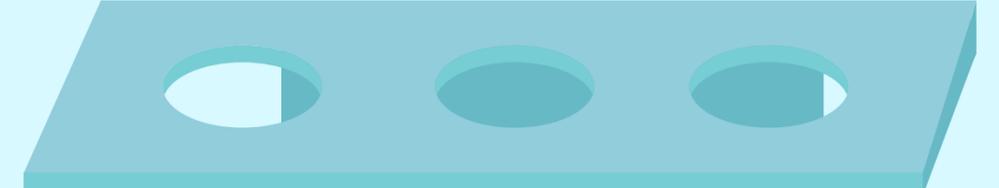
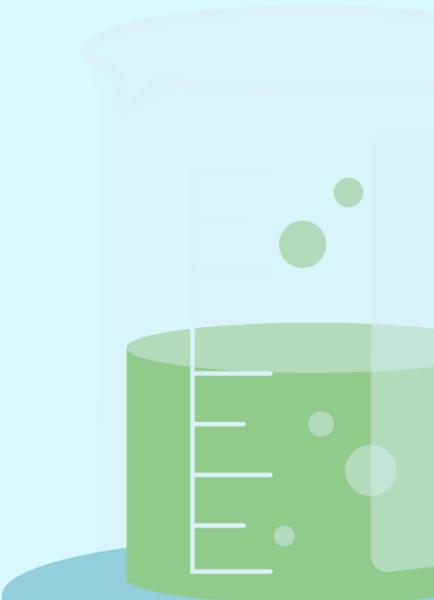
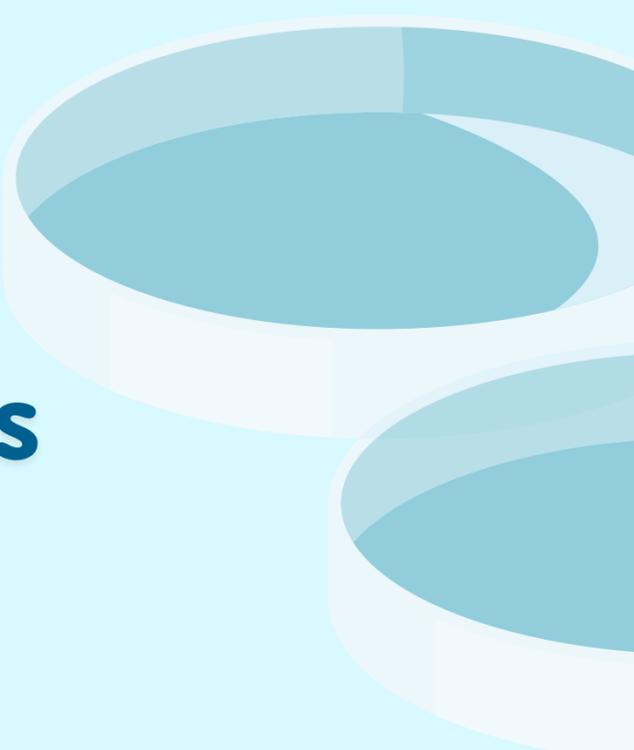
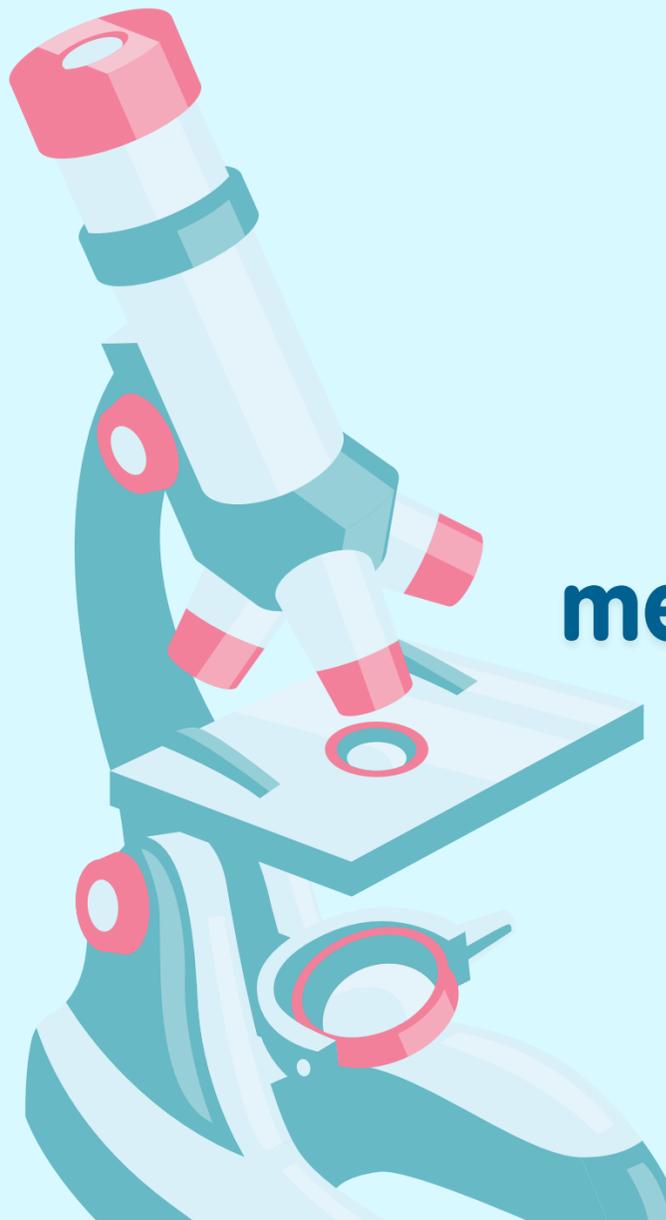
HISTORICAL CONTEXT:

in ancient medicine, it was thought that GOUT resulted from imbalances in bodily fluids (humors) such as blood, phlegm, and bile.

the "dropping" of these humors into the joints was believed to cause inflammation and pain.

GOUT was often referred to as the "disease of kings" because it was linked to a rich diet and lifestyle, particularly the consumption of red

meat and alcohol. this association made it more prevalent among the wealthy.

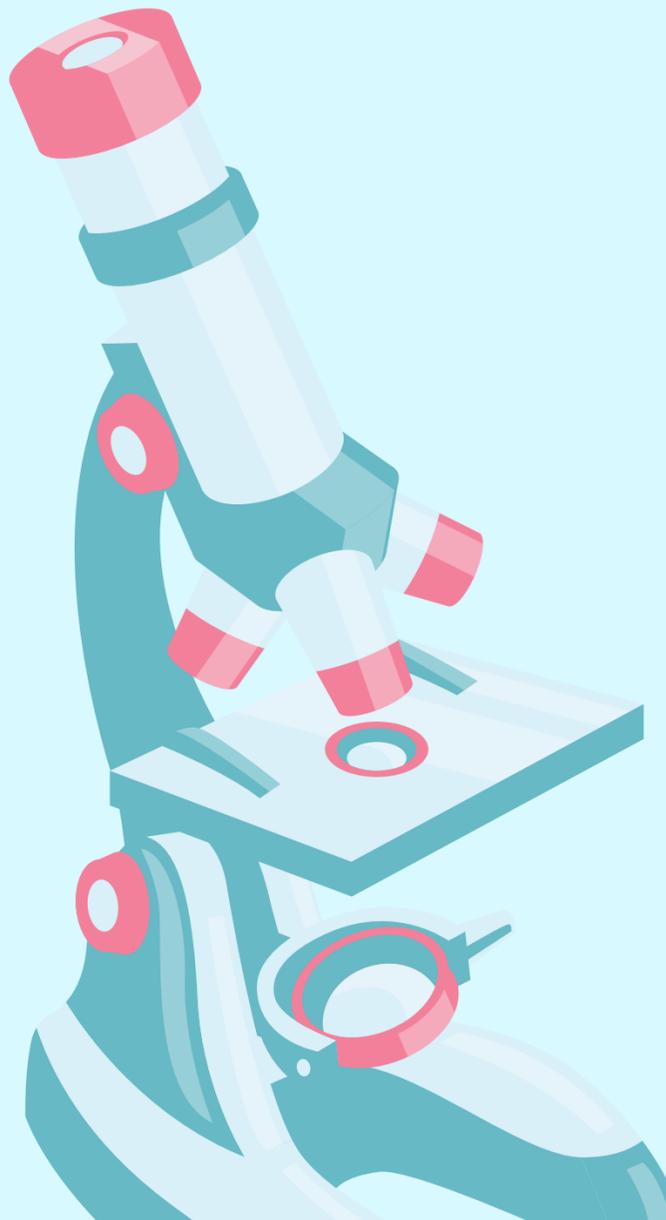


SUMMARY:

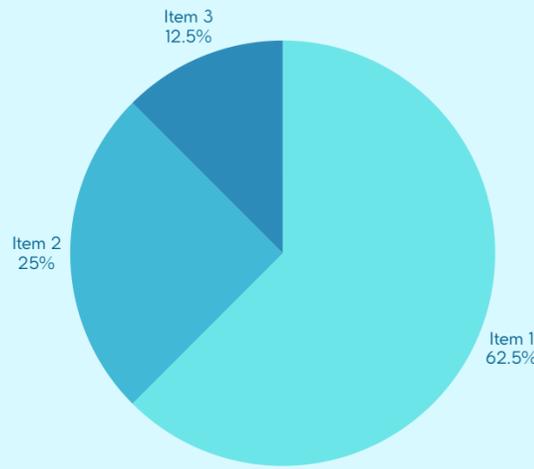
in summary, the word "GOUT" has its roots in references to "drops," reflecting ancient beliefs about its causes related to bodily humors.

understanding its

etymology provides insight into how historical medical theories shaped perceptions of the disease.



Lesch-Nyhan Syndrome



Lesch-Nyhan Syndrome

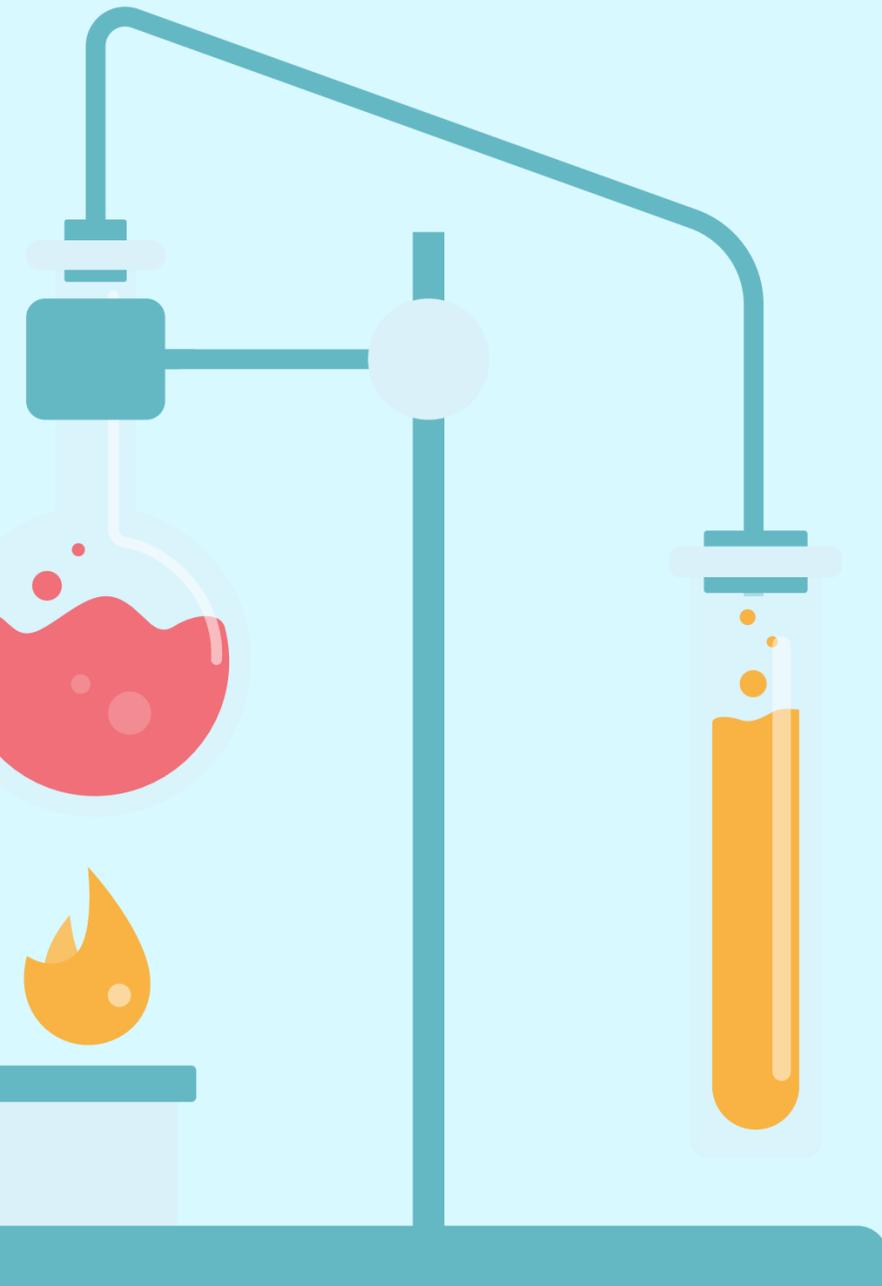
Lesch-Nyhan syndrome is a rare, inheritable x-linked trait that occurs most frequently in boys. People affected by this syndrome lack an enzyme called hypoxanthine-guanine phosphoribosyltransferase (HGPRT). This enzyme is needed in the body to recycle purines, such as guanine back into its nucleotide, guanosine-5'-monophosphate. Without HGPRT excess guanine eventually breaks down into uric acid and accumulates in the brain.

The abnormally high levels of uric acid in the brain leads to gout-like swelling in the joints as well as kidney stones. Boys with the syndrome suffer from mental retardation as well as bizarre neurological symptoms including sinuous movements and increased deep tendon reflexes. However, the most notable of symptoms in boys are the self-destructive tendencies characterized by chewing off lips and fingertips if not restrained.

hypoxanthine-guanine phosphoribosyltransferase (HGPRT)

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**THANK YOU
FOR YOUR
ATTENTION!**

