

Concentration of ketones in plasma

Here is an [overview](#) of the **plasma concentrations** of **3-hydroxybutyrate** (3-HB) in different situations:

	Concentration of 3-hydroxybutyrate in plasma	Concentration of free fatty acids (FFA) in plasma
After a meal	~ 0.05 mmol/l	< 0.2 mmol/l
12-hour fasting	< 0.2 mmol/l	~ 0.4 mmol/l
21-day fasting	~ 5.0 mmol/l	~ 1.5 mmol/l
T1DM; ketoacidosis; pH = 7.0	~ 20.0 mmol/l	~ 5.0 mmol/l

The maximum rate of formation of ketone bodies is reached at a **plasma concentration** of ~ 12 mmol/l.

Links

Related articles

- Reduction diet
- β -oxidation
- Diabetes mellitus
- Acetyl-CoA

References

- Institute of Clinical and Experimental Medicine & Nova. *3-hydroxybutyrát v arteriální plazmě* [online]. IKEM, ©2022. [cit. 2022-11-20]. <https://www2.ikem.cz/plm_lp_LP_16557-L0000006.htm>.
- RYBKA, Jaroslav. *Diabetes mellitus : Komplikace a přidružená onemocnění*. E-book edition. Grada, 2007. pp. 317. ISBN 978-80-247-1671-8.