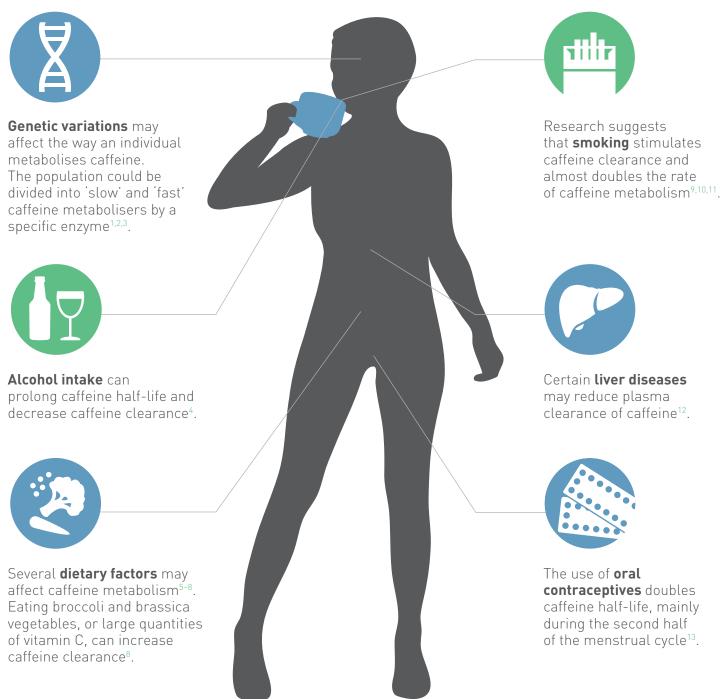


Factors affecting caffeine metabolism

Various different factors influence how the body metabolises caffeine, which impacts how caffeine intake affects everyday activity.



References

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^{1.} Nehlig A. (2017) Interindividual differences in caffeine metabolism and factors driving caffeine consumption. Pharmacol Rev, 70[2]384–411. 2. Yang A. et al. (2010) Genetics of caffeine consumption and responses to caffeine. Psychopharmacol, 211[3]:245–257. 3. Arnaud M.J. (2011) Pharmacokinetics and metabolism of natural methylxanthines in animal and man. Handb Exp Pharmacol, (200):33–91.
4. George J. et al. (1986) Influence of alcohol and caffeine consumption on caffeine elimination. Clin Exp Pharmacol, Physiol, 13:731–736. 5. Fuhr U. et al. (1993) Inhibitory effect of grapefruit juice and its bitter principal, naringenin, on CYP1A2 dependent metabolism of caffeine in man. Br J Clin Pharmacol, 35:431–436. 6. Fuhr U. et al. (1995) Lacking effect of grapefruit juice on theophylline pharmacokinetics. Int J Clin Pharmacol Ther, 33:311-314. 7. Blanchard J. & Hochman D. (1984) Effects of vitamin C on caffeine pharmacokinetics in young and aged guinea pigs. Drug Nutrient Interactions, 2:243–255. B. Lampe J.W. et al. (2000) Brassica vegetables increase and apiaceous vegetables decrease cytochrome P450 1A2 activity in humans: changes in caffeine metabolite ratios in response to controlled vegetable diets. Carcinogenesis, 21:1157–1162. 9. Kalow W. & Tang B.K. (1991) Caffeine as a metabolic probe: exploration of the enzyme-inducing effect of cigarette smoking. Clin Pharmacol Ther, 49:44–48. 10. Parsons W.D. & Neims A.H. (1978) Effect of smoking on caffeine clearance. Clin Pharmacol Ther, 24:40–45. 11. Brown C.R. et al. (1988) Changes in rate and pattern of caffeine metabolism after cigarette abstinence. Clin Pharmacol Ther, 43(5) 488–91. 12. Scott N.R. et al. (1988) Caffeine clearance and biotransformation in patients with chronic liver disease. Clin Sci, 74: 377–384. 13. Arnaud M.J. (1993) Metabolism of caffeine and other components of coffee, in Caffeine, Coffee and Health (Garattini S ed), pp 43–95.