

Advanced Glucose Control References –

1. Yin J, Xing H, Ye J. Efficacy of berberine in patients with type 2 diabetes mellitus. *Metabolism*. 2008 May;57(5):712-17. [PMID: 18442638]
2. Zhang Y, Li X, Zou D, et al. Treatment of type 2 diabetes and dyslipidemia with the natural plant alkaloid berberine. *J Clin Endocrinol Metab*. 2008 Jul;93(7):2559-65. [PMID: 18397984]
3. Li Z, Geng YN, Jiang JD, et al. Antioxidant and anti-inflammatory activities of berberine in the treatment of diabetes mellitus. *Evid Based Complement Alternat Med*. 2014;2014:289264. [PMID: 24669227]
4. Lee YS, Kim WS, Kim KH, et al. Berberine, a natural plant product, activates AMP-activated protein kinase with beneficial metabolic effects in diabetic and insulin-resistant states. *Diabetes*. 2006 Aug;55(8):2256-64. [PMID: 16873688]
5. Wang Q, Zhang M, Liang B, et al. Activation of AMP-activated protein kinase is required for berberine-induced reduction of atherosclerosis in mice: the role of uncoupling protein 2. *PLoS One*. 2011;6(9):e25436. Epub 2011 Sep 27. [PMID: 21980456]
6. Zhang M, Wang CM, Li J, et al. Berberine protects against palmitate-induced endothelial dysfunction: involvements of upregulation of AMPK and eNOS and downregulation of NOX4. *Mediators Inflamm*. 2013;2013:260464. [PMID: 24385682]
7. Yang J, Yin J, Gao H, et al. Berberine improves insulin sensitivity by inhibiting fat store and adjusting adipokines profile in human preadipocytes and metabolic syndrome patients. *Evid Based Complement Alternat Med*. 2012;2012:363845. [PMID: 22474499]
8. Zhou J, Zhou S. Berberine regulates peroxisome proliferator-activated receptors and positive transcription elongation factor b expression in diabetic adipocytes. *Eur J Pharmacol*. 2010 Dec 15;649(1-3):390-97. [PMID: 20868663]
9. Zhou LB, Chen MD, Wang X, et al. Effect of berberine on the differentiation of adipocyte [in Chinese]. *Zhonghua Yi Xue Za Zhi*. 2003 Feb 25;83(4):338-40. [PMID: 12812656]
10. Liu Y, Lou SY, He YM. Effects of berberine on cell proliferation, peroxisome proliferation activated receptor gamma, CAAT/enhancer binding protein mRNA and protein expression in 3T3-L1 pre-adipocytes [in Chinese]. *Zhongguo Zhong Xi Yi Jie He Za Zhi*. 2008 Nov;28(11):1005-09. [PMID: 19213344]
11. Li GS, Liu XH, Zhu H, et al. Berberine-improved visceral white adipose tissue insulin resistance associated with altered sterol regulatory element-binding proteins, liver x receptors, and peroxisome proliferator-activated receptors transcriptional programs in diabetic hamsters. *Biol Pharm Bull*. 2011;34(5):644- 54. [PMID: 21532151]
12. Golbidi S, Badran M, Laher I. Diabetes and alpha lipoic acid. *Front Pharmacol*. 2011;2:69. [PMID: 22125537]
13. Hahm JR, Noh HS, Ha JH, et al. Alpha-lipoic acid attenuates adipocyte differentiation and lipid accumulation in 3T3-L1 cells via AMPK-dependent autophagy. *Life Sci*. 2014 Apr 1;100(2):125-32. Epub 2014 Feb 14. [PMID: 24530288]

14. Diesel B, Kulhanek-Heinze S, Hölting M, et al. Alpha-lipoic acid as a directly binding activator of the insulin receptor: protection from hepatocyte apoptosis. *Biochemistry*. 2007 Feb 27;46(8):2146-55. [PMID: 17274632]

15. Konrad D, Somwar R, Sweeney G, et al. The antihyperglycemic drug alpha-lipoic acid stimulates glucose uptake via both GLUT4 translocation and GLUT4 activation: potential role of p38 mitogen-activated protein kinase in GLUT4 activation. *Diabetes*. 2001 Jun;50(6):1464-71. [PMID: 11375349]