

Chicken drumstick mushroom (*Coprinus comatus*) ethanol extract exerts a hypoglycaemic effect in the *Rattus norvegicus* model of diabetes

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Abstract	a:3:{i:0;s:538:"Coprinus comatus has hypoglycaemic and antioxidant activity, and thus also potential for the treatment of diabetes mellitus (DM). The treatment of DM is prolonged and costly and long-term use of the currently available therapeutics carries a risk of development of side effects. This creates an opportunity for application of traditional medicine. The ideal therapy for DM would not only have an anti-hyperglycaemic effect, but would also enhance antioxidant defences. C. comatus contains ergothioneine, a thiol with antioxidant activity.";i:1;s:357:"We assayed the effect of a C. comatus ethanol extract on the blood glucose, glycosylated haemoglobin, superoxide dismutase, and plasma insulin levels of male Wistar rats (<i>Rattus norvegicus</i>) with alloxan-induced DM, and performed a dose-response analysis. This study used a completely randomised design and a post-test approach, and included a control group.";i:2;s:319:"The C. comatus ethanol extract reduced the blood glucose, MDA, and HbA1c levels and increased the plasma insulin level. The 500 mg/kg body weight dose exhibited the greatest efficacy, as it reduced the blood glucose level by 12.33%, HbA1c level by 6.35%, MDA level by 32.6%, and SOD and plasma insulin levels by 10.57%.";};
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