COMPARATIVE STUDY OF THE CRUDE EXTRACT OF *Lentinula edodes* (SHIITAKE MUSHROOM) AND *Inonotus obliquus* (CHAGA MUSHROOM) ON BLOOD-GLUCOSE LEVEL OF *Mus musculus* (Albino mice)

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ABSTRACT

Shiitake mushroom (*Lentinula edodes, T3)* and Chaga mushroom (*Inonotus obliquus,* T2*)* crude extracts were used as treatments for the alloxan-induced albino mice. Two groups (T0: non-diabetic group and T1: diabetic group without treatment) were used as control negative and positive group to compare the significant effect and difference of both Shiitake mushroom and Chaga mushroom extracts. Using the glucometer device, the researchers determined the actual blood glucose level after three weeks of treatment.

The Shiitake mushroom and Chaga mushroom extracts had lowering effect on the blood-glucose level of the alloxan-induced albino mice. Comparing the two mushrooms used, the researchers found out that Chaga mushroom was more effective in lowering the blood-glucose level than Shiitake mushroom. Chaga mushroom had a value of 126.67 mg/dl while Shiitake mushroom had a value of 138.78mg/dl. Blood-glucose level was affected by the treatment of Shiitake mushroom and Chaga mushroom, proving that both mushroom extracts were effective in lowering the blood-glucose level of the albino mice induced with alloxan.

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