To Evaluate the Effect of Pippali (Piper Longum, Linn) on Experimental Model of High Fat Diet Induced Obesity

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ABSTRACT:
Hindu mythology reveals that Pippali has its origin during Samudramanthanam along with amruta. Bhavamishra gives ‘ooshana’ as a synonym for this Pippali. In samhitta and various nighantu pippali has been mentioned. All this references indicate that Pippali is very old drug known to Indians from long time and its sanctity goes beyond 2000-3000 years. Obesity called as Sthoulya in Ayurved. Pippali is responsible for destroying Visha, Jantu, Kapha, and Vata from body. It is useful in scraping kapha from the body. Aim of the study is To Evaluate the effect of Pippali Churna in experimental model of high fat diet induced obesity. The experimental study was carried out for 42 days. In which for first 21days the obesity was induced by creating high fat induced obesity experimental model of wistarrats male, which was further treated for next 21 days with three different test drug dosage of Pippali (A), of 90mg/kg., Pippali(B) of 180mg/kg and Pippalai(C) of 270mg/kg were used. For obesity induction Vanaspati Ghee (Dalda) and coconut oil (Parachute) was used in which daily pellets were soaked overnight. The weight was recorded on weekly basis where as the blood samples were collected on 0, 21 and 42 days respectively. Standard Drug Atorvastatin was used. The blood samples were send for histopathological results and the statistical analysis was done with Annova method. Obesity was induced till day21 and again was reduced satisfactorily by Pippali group(A) and group (C) showed maximum satisfactory results with histopathological changes. Pippali has antiobesity potential. According to variation of dose the results have significant changes.

KEYWORDS: Pippali, HFD, Antiobesity, hyperlipidemia

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Website:http://heb-nic.in/jrim
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