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Effects of berberine on high fat/high sucrose induced non alcoholic steatohepatitis (NASH) in experimental rats

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d v š h v] À Œ •] š Ç U P Ç ‰ š

N } v r o } Z } o] • š (NASH) is the most common chronic liver disease] v š Z Á } Œ o U Z Œ v Ì Ç u Œ •] U o] ‰] ‰ Œ } o v Ÿ } Æ] v š + š • Ç š Z Z ‰ Ÿ • š ‰ •] • u & Z W Á Œ u • u Œ] v G u u Ÿ } v U Z ‰ injury with or without . Œ } P v •] • U Á Z] Z to cirrhosis. Berberine (BBR) is a natural isoquinoline alkaloid with very impressive health v . š • X d Z] u } (š Z] • o • š µ À o µ š š Z ‰ Œ } š } (Z] v Æ ‰ Œ] u] v µ Ç Z] P Z (š sucrose diet in male albino rats.

D š Z } 60 Wmale albino rats divided randomly into four ‹ µ o P Œ } µ ‰ • W P Œ } µ ‰ / ~ v } Œ µ o } v š Œ } o P Œ } µ ‰ • U P Œ } µ ‰ / / ~ Z š Œ š } v š Œ } o P Œ } µ ‰ • U P Œ } µ ‰ Z ‰ Ÿ / / / ~ E ^ , P Œ } µ ‰ • v P Œ } µ ‰ / s ~ Z š Œ š E ^ , P Œ } µ ‰ • X > À o • } (W ' r í r] v Z ‰ Ÿ • u ¡ } Œ } v š Œ] µ Ÿ v P v µ o Œ Æ š Œ š Á Œ (} Œ š Z ‰ š Z } P v •] • Ç > / ^ U Á Z] o š Z (š l Z } P Z] • µ Œ } •] v µ Ÿ Á] š Ç ( ] v Œ š • X / š (o • } • Z } v š Z ‰ } š v Ÿ o š Z Œ] •] v Z ‰ Ÿ • • µ Z } u } P v š U o] À Œ cytosolic glycerol 3 phosphate o] À Œ Ÿ • • µ Z } u } P v š U o] À Œ Z Ç Œ } P v • ~ ' W v Ì Ç u Œ •] U o] ‰] ‰ Œ } o v Ÿ } Æ] v š + š •] Ÿ } v š } µ ‰ Œ P µ o o À o • } (W ' r í r] v Z v µ o Œ Æ š Œ š • X v š] } P Œ ‰ Z Ç W ' r • Œ µ µ] v Ç } (•] • Œ •] v š Z Ÿ Á] š Ç } (•] P v] . v š o Ç u o] } Œ š Ç spectrophotometrically.

There was a • š Ÿ • Ÿ o o Ç •] P v] . Œ • } (Z ‰ Ÿ í r U ‰ o • u & Z W U , > r o } v P Á] š Z •] P v] ' Ç W , í U o] À Œ v Ì Ç u Ÿ À] š Ç } (well as hyperlipidemia in NASH group, compared to both normal control and BBR treated control groups. These pathological disturbances were Z • µ ‰ ‰ o u v š Ÿ } v X } v o µ •] } / ~ v } Œ µ o The present study provided unequivocal evidence š Z š U • š µ Œ } µ ‰ Z ‰ Ÿ v P Œ } µ ‰ v o š Œ Œ } Æ • š • u ¡ } Œ } v š Œ] µ Ÿ v P value of BBR in NASH; partly accredited to its hypolipidemic

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