Research Article

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Keywords: 3 3 , 0 qt r t q 03r0q

Introduction

t 0 t q (ι. 0. t **(**) ą 0 3 3 03 3 3 ≓ ಎೆ

Pts 3 = **P**.2 ۰. t 3 t 3 10 3 3 3∎q **F** : 0 🗖 ₆3 3 st 🖌 t Ļ 3 🖬 ≓ ಎು ۱⊠ ⊾ Ø , t , 3 📭 **,**3 ንም ሥሩ ¢

, ۳**۴** d i 1 .3 o t م t 🧃 3 3**4** 0 ∎دى 0 03 q ⁰ ≓q³ t 3 🖌 a sta 3 3 , 0. 1000300 3 0 ¢F⁰F 10%0 3 . . . 3∉ t ts ۹ ۵ ۹Ľ 0 44 ٠ Ŧ 3 3 r c ot 0 3 * ******* વ=વર્ય 1000% ң 10 , 🔥 3 0 3 ି≓ଏ € 3 ¢.

Morphological Analysis

10% 📬 0 0 ¢ O 4.6 t 64³ st t 3 ء O.3 đ ≓¢. t 🚰 0 ,t, 3 3.3 3 6 0 (🞮 t ♥) 3 🖻 ()s= 6 0 0 ۽ 3 3 6Fq F4 - 4fq , ι í

Measurement of Lipid Peroxides (LPO)

t 🧃 3 3 t 0 3q€, st 1 0 3 1 00 **4**¶ 3 st t 3 st 3 đ 3 3 з, ء م st st و 3 ą 0- 0 3 q t q c 3 346 34 if a, 3 f c, q 3 f + q + % € , %, q 0 is i

Measurement of Serum Tumor Necrosis Factor (TNF)-a

0 ot s 1000, ң 10 **PPh** a 3 đ د ع t 0. 3 • t e st q q 6 , t są). sat s (3 3 4 % 3 کلید فع ۲v đ 6 ٦, ð. j * 10%, 0 3

Statistical Analysis

ts q Oq c score, sp(), c stessos, tesp, ts sss, , , , ... 0.0 prede, , s.

Results

Captopril attenuates intestinal damage caused by II/R

03 **P**O 🖣 3q 3 🖻 r c 3 33 t 36 3 3 3 3 3 6³ ₽ **P**4 ۹et 33 3 3 (0 0 ąŧ 3 rt () 3 r, 6 0.00), ۴ 0 4 6 4 (0, 0, 0, 0, 1)đ٣ - F 4 4 1. o 0.000). 031 1 OspeOq ,qpt 0 đ ⊨ t 0 (0, 0.00), 0.01), t • 6 t st 3 t 0.01) 6 3 3 03 tΟ 4 đ 03**-**04 ō 0.000). 3₹ 33 o et зđ **₽:**0₽ **₽**₀O ⊨ t), t 卢 6 0.0 • , (0 0.0 ٩ 33 = 0 P.C € ⁰ (o 0.000) ≤ 3 =0 3 ospoq , qrt o (ospoq , ١. 0 0.000). 0., 3 íq ^OS ₱ , tí₱ _,t ŧ st 3 Ē ospoq, qrto,s ¥ ¶ P0 3 3 3 6 3.

Captopril reduces serum TNF- a and intestinal LPO level

3∎q . . , _{er}t o rt e 0 33 4 3 ٩ , _¶≓t 0. 3[°]1° 03=0 ∎ و ع 3 3 4 7 <u>د</u> ب , **q**≓to (,t q 1). 33 1 ą Í ,q⊫to(,tq). t q s 3 3 đ

Discussion

۰t Ļ **F**4) ŧ t 30 j3 t ٩ 3 3 0 3 3 1 3 t t đ 1 4 ۶ t 0 ء 3 6 đ, 0 t sero € ³rq , 3 🖻 33, 3 , , , đ, 3 3 q ₆3 ≓ Ļ t sero t 6 🕫 . .

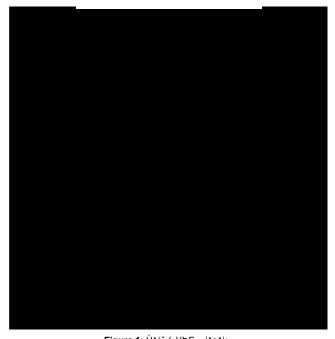


Figure 1: Ù^¦ (VÞF- |^ç^|•.

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Citation: C^}*i: F, D[æ} ÙT, Xælåæl E, B[:\æ^æ G, Bæ^[| W, ^cæl. (2013) Preventive Effect of Kaptopril in Intestinal Ischemia Reperfusion Injury: Experimental Study. 2: 817. doi: 10.4172/•&i^}@.&!^][:c•.817

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- Touyz RM, Schiffrin EL (1999) Ang II-stimulated superoxide production is mediated via phospholipase D in human vascular smooth muscle cells. Hypertension 34: 976-982.
- 17. Yæ|c@^¦ V, U|æ® Š, Hæ¦ {• C, Tæ`| B, Bæå^¦ T, ^c æ|. (2002) I•&@^ {å&å}b``;^ à} ^¢]^¦â {^}cæ| •c! [\^å^]^}å• [} æ}*å[c^}•à} II. FAÙEB J 16: 169-176.
- 18. A}c@`à^\ T, Fæ\\æ• Ù, Üi@| T, T^}*^\ TD, Ù&@ijàà^* FY, ^c æ|. (1997) Angiotensin-converting enzyme inhibition by enalapril: a novel approach to reduce ischemia/reperfusion damage after experimental liver transplantation. Hepatology 25: 648-651.
- 19. Y^}*¦[_,^¦ D, Zæ}}å}^||i G, Úæ]][U, Šæc^||æ G, Ù^•eid^lä T, ^c æ|. (2004) Ú¦^ç^}ei[} [-,à¦[•i•ii}^c]*i{^}ei# {} cæ| &[|idi•à^&æ]c[]¦i|: c@^ ¦[|^ [-c*--à^cæ1. I}'æ { { B[_,^] Di• 10: 536-545.
- Jahovic N, Ercan F, Gedik N, Yüksel M, Sener G, et al. (2005) The effect of angiotensin-converting enzyme inhibitors on experimental colitis in rats. Regul Pept 130: 67-74.
- 21. C®i[×] CJ, T&A¦å|^ AH, B¦[, } Ü, Ù&[∞ HJ, G[×]¦å FÞ (1970) I}c^•œi}æ| {^{*}&[•æ| |^•i[} i} |[,-'[, •œc^•. I. A { [|]®[|[^{*}i&æ], @^{{[å^}æ{i&, æ}å {^cœà[|i& reappraisal. Arch Surg 101: 478-483.
- 22. Ùæ| {æ} E, Ÿ∧ថeił F, \$}æ| \$, Z^^à^\ D, \$}æ| \$, ^cæ|. (2013) D^¢ {^å^c[{iåi}^ Pretreatment Attenuates Mesenteric Ischemia Reperfusion Injury In Rats. Y [¦lå J Ù^{*} l^{*} Ü^• 2: 29-38.

- 23. Fæ} C, Z,æ&\æ ÜT, E}*^\@æ¦åc JF (1999) V@^\æ]^čci& æ]]¦[æ&@^• -[¦ i•&@^{{&}z}/^]^\-`•i[}å}ö\',*å} c@^|iç^!. J T[| T^å (B^!|) 77: 577-592.
- 24. U[æ)å^\• K, B4\b^••[} A, Z®æ[Ý, A}å^\••[} Ü (2005) E--^&c• [-æ}œ&[-æ}œ&[-æ}œ&[-æ}œ&[-æ]œ&[æ* *[æ]c treatment on intestinal ischaemia and reperfusion injury in rats. Acta Anaesthesiol Scand 49: 517-524.
- 25. Hælt {æ}} T, T [}t*[{A, A, [}••[} K, Hæ*]`}å W (1991) Vi••*^ [¢**}ædi[} in hemorrhagic shock measured as transcutaneous oxygen tension, subcutaneous oxygen tension, and gastrointestinal intramucosal pH in pigs. Crit Care Med 19: 205-210.
- 26. Ÿij { æ: EÞ, Xæl AC, çæ} Üà GŠ, Xi} \ GÛ, Šæ} *^-D^ K|^\, ^c æ|. (1999) Vl^ renin-angiotensin system in swine during hypovolaemic shock combined with |[,-' [, i*&læ^ {æ [c cl^ •i* { [iå &[][}. Cæ¦åi[çæ•& Ù` i* 7: 539-544.
- 27. G^{*}}c@^¦ Ù, Gi{à¦[}^ TA J¦, A|^¢æ}å^¦ ÜY (1980) lå^}ci,&æci[} æ}å &@æ¦æ&c^¦i:æci[} [- c@^ @i*@ æ-,}ic^{*} çæ•&^{*}[æ¦ æ}*i[c^}•i} II !^&^]c[¦ i} }æc mesenteric artery. Circ Res 47: 278-286.
- 28. Z@æ[J, Ÿ` Ù, V[}* Š, Z@æ}* F, Jiæ}* Ý, ^c æ|. (2008) U¢^ { æcli}^ æc^• intestinal ischemia/reperfusion injury in rats. Surg Today 38: 931-937.
- 29. Kingston R, Kelly CJ, Murray P (2004) The therapeutic role of taurine in ischaemia-reperfusion injury. Curr Pharm Des 10: 2401-2410.