

عنوان مقاله:

?Does Propylthiouracil Increase the Gentamicin-Induced Nephrotoxicity In Rat

محل انتشار:

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خلاصه مقاله:

Objective(s): The aim of this study was to evaluate the effect of subacute administration of propylthiouracil (PTU) on gentamicin (GM)-induced nephrotoxicity in male rats. Materials and Methods: Male Wistar rats were divided into F experimental groups as follow: (1) Control group: isotonic saline (1 ml/kg, IP. for 1A d), (Y) GM group: 1•• mg/kg, IP for A d, (Y) PTU group: PTU (1• mg/kg, IP for 1A d.) and (F) PTU + GM group: GM (1•• mg/kg, IP. for Ad) and PTU (1• mg/kg, IP. for 1A d). Blood sample was taken from all animals and then the animals were sacrificed under light ether anesthesia on the day after the last injection. Sera were separated and were used to measure the urea and creatinine. Microscopic evaluation of renal injury was performed using a semiquantitative scale to evaluate the degree of tubular necrosis. Results: GM markedly increased serum urea and creatinine, as well as acute tubular necrosis (ATN), glomerular atrophy, hyaline casts formation in tubular lumen, interstitial nephritis and infiltration of inflammatory cells. PTU administration alone caused hyperemia and tubular morphology and function. Co-administration of PTU and GM potentiates the GM-induced nephrotoxicity characterized by diffuse ATN; diffuse hyaline cast formation in lumen and infiltration of inflammatory cell in kidney tissues. Conclusion: Our data indicate that PTU potentiates GM-induced nephrotoxicity mechanism(s) via which PTU potentiates GM renal toxicity remains to be ...elucidated

کلمات کلیدی:

Gentamicin Nephrotoxicity Propylthiouracil Rat

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