







•cross blood brain barrier into the CNS •produce more central effects than the water soluble

•have longer t1/2 & accumulate in renal disease •should be avoided in renal impairment

cardiac output& O2 consumption . decrease renin

produse bronchoconstriction & may precipitate

•angina pectoris: reduce cardiac work & myocardial o2

•acute myocardial infarction to reduce infarction size&

"timolol" eye drops reduce aqueous humour &high IOP

reduce manifestation of sympathetic over activity in