Intraportal doses of dihydroergotamine, hepatic nerve stimulation and small intraportal doses of noradrenaline produced depressor responses, when corresponding doses of adrenaline were without effect. ... When injected into the artery supplying the caudal end of the spleen, adrenaline produced a depressor response, possibly due to the liberation of histamine. Noradrenaline, on the other hand, produced a pure rise of blood pressure."

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"The pressor effects of Dl-noradrenaline and L-adrenaline, injected into the jugular, femoral, and splenic veins and the splenic and external iliac arteries of cats and rabbits, have been examined. ... Adrenaline was less active by portal than by jugular vein, though the ratio value for equipressor doses by these routes decreased as the pressure rise increased. Noradrenaline was less active by portal than by jugular vein, but the ratio value remained constant. ... When injected into the portal circulation, noradrenaline was not potentiated by the simultaneous administration of guanidine or cocaine whereas equipressor doses of adrenaline were enhanced. Noradrenaline therefore is not rapidly absorbed from the blood stream during its passage through the liver. ..."

"Intra-arterial and intrajugular injections of adrenaline and noradrenaline were not potentiated by the simultaneous administration of intra-arterial or intrajugular guanidine, but both were enhanced by cocaine. ... Guanidine or cocaine in suitable intraportal doses do not potentiate the action of liver sympathin. After large


"A capacity to enhance the pressor action of adrenaline in anesthetized animals is almost as conspicuous in methyl thiourea and its nearer homologues as their own pressor activity. ... A more intensive study of the activity displayed by these compounds has indicated how ... contrasting observations may be reconciled. An appreciation of the ambivalent character of typical amidine derivatives goes a long way towards explaining differences in effects upon sensitivity to adrenaline, outstanding though these may appear superficially. ... It has been shown for the first ten isothiouraes (n=0–9) of general formula:

$$\text{CH}_3(\text{CH}_2)_n\text{S.C}(:\text{NH})\text{NH}_2$$

that either sensitization or desensitization to the vasoconstrictor action of adrenaline in the pithed rat hind-quarters preparation may be observed after their administration, according to the experimental conditions employed. ... Which effect is produced seems to depend mainly upon dosage. ... Experiments with various other strongly basic amidine derivatives. ... sug-