amines. (Campbell, G. S., and others: Depressed Response to Intravenous Sympathicomimetic Agents in Humans During Acidosis, Dis. Chest 33: 18 (Jan.) 1958.)

ADRENAL INSUFFICIENCY Adrenalectomized dogs had a lower initial mean systolic and diastolic blood pressure in both femoral and pulmonary arteries than did control dogs. There was no significant difference between the adrenalectomized dogs and the control animals in ability to respond intravenously injected norepinephrine by an increase in force of cardiae contraction or by an increase in systemic or pulmonary blood pressure. Myocardial or coronary artery lesions did not occur in any of the animals. (Reidenberg, M. M., Ohler, E. A., and Sevy, R. W .: Cardiocascular Responses to Norepinephrine in Acute Adrenal Insufficiency, Proc. Soc, Exper. Biol. & Med. 97: 889 (April) 1958.)

CORTISONE 1lydrocortisone or corticosterone given for 60 days to normal rats
caused an elevation of the total circulating
red cell volume from 1.45 to 1.64 times that
of normal, untreated controls. There was
a significant elevation in erytbrocyte,
hematocrit and hemoglobin values. (Fisher,
J. W.: Increase in Circulating Red Cell
Volume of Normal Rats After Treatment
with Hydrocortisone or Corticosterone,
Proc. Soc. Exper. Biol. & Med. 97: 502
(March) 1958.)

DIBENAMINE IN SHOCK Development of irreversibility to transfusion in hemorrhagic shock has been shown to be caused by hacterial endotoxins and dibenamine prevents the development of irreversibility. On the basis of experiments on rabbits, it is concluded that dibenamine blocks the action of the toxin, and thereby not only preserves the responsiveness of the circulation, but also prevents the hemorrhagic lesion in the bowel wall, which is characteristic of irreversible shock. (Smiddy, F. G., Segel, D., and Fine, J.: Proc. Soc. Exper. Biol. & Med. 97: 584 (March) 1958.)

ADRENALINE AND NORADREN-ALINE A photo fluorimetric method for the determination of adrenaline and noradrenaline in peripheral plasma is described. The sensitivity of this technique is 0.2 μg./l. of adrenaline and 0.3 μg. l. of noradrenaline. By use of a differential oxidizing procedure the concentrations of both adrenaline and noradrenaline inga mixture can be determined. Values for these substances in peripheral blood were found to be very much lower when precautions were taken to prevent the disruption of platelets. This observation is in hermony with the view that the platelets may act as vehicles for the transport of adrenaline and noradrenaline. (Robinson, R., and Scott, F. D.: Fluometric Determination of Adrenaline and Noradrenaline in Plasma, Biochem, J. 68: (March) 1958.)

SEROTONIN Serotonin probably perticipates in a wide variety of metabolic and physiologic functions. The cardiovescular response to serotonin is "amphibarie" and seems to vary with the dose and test animal. Vasodilatation generally follows from slow infusion of small doses and vasoconstriction occurs when larger doses are given quickly. Single intravenous injections given to normotensive and hypertensive patients while causing an increased pulse rate and cardiac output, had a variable effect (pressor, depressor, or hiphasie) on the arterial pressure. The pressor effect may be augmented by cocaine, reserpine and pituitrin. The depressor response may he due to release of endogenous histamine by scrotonin and/or peripheral inhibition of nenrogenic vasoconstriction. The coronary vessels were dilated. piration was consistently increased, possibly by stimulation of the chemoreceptors. Pulmonary vasoconstriction always @ccurred as manifested by a rise in pulmonary artery pressure and a fall in left atrial flow without a concurrent change in aortic pressure and heart rate. Serotofin was the only substance studied that affected the pulmonary vasculature in doses insiffficient to affect systemic and arterial pres-Serotonin is probably formed sin enterochromaffin tissue and is found in particularly large quantities in the bragen, platelets and gastrointestinal tract. erpine seems to cause its release from these sites, while Iproniazid, by interfering with