

Thirty third meeting.

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**The vascularity of the spleen as influenced by single nerves
of the plexus lienalis.**

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The blood supply of the spleen was determined by means of a stromuhr inserted into the splenic vein. The average for a dog of 18.0 kilos body weight, with a spleen weighing 100 gm., amounted to 0.97 c.c. per second, the velocity of the blood stream to 42.0 mm. per second, the venous pressure to 10.0 mm. Hg.

Vaso-constrictory influences were obtained on stimulation of either splanchnicus major, or of the plexus lienalis. Single nerves of the plexus, designated as α , β , γ and δ also showed strong vaso-constrictory powers. Thus, it was possible to transfer from 30 to 50 c.c. of blood from the spleen into the systemic circuit by moderate stimulation of either one of the nerves just mentioned. The removal of so large a quantity of blood from this organ by the constriction following the stimulation, resulted in a rise in general blood pressure.

On the venous side the vaso-constrictions made themselves felt by :

1. A quick sharp rise in the venous return and venous pressure.
2. A gradual decrease in the blood-flow and pressure.
3. A slow adjustment toward normal values.