

abnormal conditions. The best experiments by Bentner, Lichtheim, Bradford and Dean, and Knoll, have shown values, as compared with the aortic pressure, between 1:2.6 and 1:13.4. These were in the rabbit, dog and cat. In all probability it does not average more than one-fifth the height of mean aortic pressure."

As to blood-pressure in tuberculosis, the same authority may be quoted as follows: "In tuberculosis the early studies of Marfan led him to believe that low tension is one of the commonest symptoms of phthisis, appearing even in the incipient stage."

"Since that time systematic observations on the blood-pressure of consumptives have been published from several European sanatoria, by Burekhardt, John, and Naumann, all with the Gärtner tonometer. All agree that hypotension is the rule in the more advanced cases, running roughly parallel with the impairment of general bodily vigor. Burekhardt, in rather a small series, found the pressure regularly diminished early in the second stage of the disease, and in advanced phthisis, rapid pulse and subnormal tension were invariable."

Naumann studied one hundred cases, from which all who had fever, arterio-sclerosis, heart lesions, pleural adhesions, or albumin or sugar in the urine, were carefully excluded. They were, therefore, patients with chronic, practically inactive and uncomplicated pulmonary tuberculosis. In this they differ from Burekhardt's, most of whom had an active febrile process.

Of these one hundred patients,

In sixty-nine the blood-pressure was over 130 mm. (G.).

In thirteen the blood-pressure was 115 to 130 mm. (G.).

In eighteen the blood-pressure was under 115 mm. (G.).

Naumann considers these high, normal, and subnormal values.

It does not seem possible, however, to assign any limits of blood-pressure as being the normal condition found in pulmonary tuberculosis.

The following are the results of 50 cases taken at random from patients in residence at the Toronto Free Hospital for Consumptives:

Name.	Readings.	Name.	Readings.
S. S. ....	124 mm.	A. G. ....	106 mm.
H. M. ....	119 mm.	J. D. ....	120 mm.
R. C. ....	100 mm.	J. P. ....	95 mm.
C. D. ....	106 mm.	C. R. ....	106 mm.
W. S. ....	120 mm.	L. L. ....	122 mm.
L. H. ....	104 mm.	L. A. ....	95 mm.
J. T. ....	110 mm.	J. B. ....	120 mm.
A. W. ....	96 mm.	E. P. ....	88 mm.