

hold that the circulation has nothing to do with the dissemination of the worms and maintain that they reach their ultimate destination by the process of vermiculation. From the preceding observations and experiments we consider that the following arguments may be advanced in favor of the latter theory.

1. The weight of authority favors this view.

2. The form, outline and structure of worm are such as to specially adapt it to the fulfilment of such a process.

3. If the blood were the medium it is illogical to conclude that examinations in cases of experiments, should fail to find them in that fluid, when they can be seen in a pre-encysted condition in the muscular tissues. In the cases of the cat, rabbit No. 2, and guinea pig No. 1, the worms were found in the muscles while the most diligent search in the blood yielded only negative results.

4. The specimens taken from the hearts of rabbits No. 1 and 2, the cat, and guinea pig No. 1, were specially examined and no *Trichinæ* could be found. If the circulation were the means of dissemination of the worms, an examination of specimens from that organ should furnish positive evidence of the presence of *Trichinæ* as frequently as specimens taken from any other part of the muscular system. As the heart first supplies itself with blood by means of the coronary arteries there is nothing unphilosophical in concluding that this organ should of necessity contain the worms. But it may be asked how is the absence of *Trichinæ* from the heart explained if the boring theory be adopted. Lenckart's explanation is satisfactory on this point. He observes that "the worms having perforated the pericardium come in contact with an organ in constant motion, all attempts to remain on its surface must prove futile."

5. In the case of rabbit No. 2, which died, twenty-three days after being fed the *Trichinous* meat, the Larval *Trichinæ* in the muscular diaphragm were three times more numerous than in the muscles of the legs, and twice as abundant as in the muscles of the thorax, no such difference can be explained if the circulatory theory be adopted.

6. It is conceded that the striated muscular tissue is the favourite habitat of the *Trichinæ*, that of the various parts of this tissue they are found most numerous near the termination of the muscle into tendon or insertion into bone, and that certain tissues, viz. sclerous, cellular, etc., are exempt from *Trichinization*. These facts can be explained by none other than the boring theory.

7. In the case of guinea pig No 1, the capillaries could be seen passing over the cysts without having any connection with them showing that