

a dark greyish-brown colour. The right kidney weighed 120 grammes; in all respects it was similar to the left. The mucous membrane of the bladder was pale and showed above a few submucous hæmorrhages. The bladder was filled with clotted blood and there was a very large submucous extravasation of blood in the lower two-thirds of the organ posteriorly, from which the oozing apparently had taken place. The uterus was small; the external os contained blood-stained mucus. The vagina contained no blood. The ovaries were small; the left contained a few clear cysts of small size; there were no hæmorrhages. The Fallopian tubes were normal.

*Microscopical examination.* — Stained with Ehrlich's hæmatoxylin the fibres of the heart muscle were somewhat thin and wavy. The staining of the nuclei was faint and the transverse striation was indistinct. The longitudinal fibrillation was well marked. Beyond some cloudiness there was no special change. In sections stained by the carbolfuchsin and Gram-Weigert methods no bacteria were seen. Hæmatoxylin preparations of the lung showed small irregular hæmorrhagic patches here and there throughout the tissue. These were somewhat poorly defined at the margins, passing off gradually into the more healthy condition. The alveolar walls throughout were on the whole rather thin and those within the infarcted areas were much compressed. The walls everywhere stained fairly well. The interstitial tissue showed slight anthracosis. Small areas of collapse were noted in many portions. There was distinct catarrh of the lining endothelium of the alveolar processes, many of the alveoli being filled with, in addition to a few red cells, large mononuclear cells containing granules of pigment and debris. The debris in part consisted of broken-down erythrocytes. No emboli were seen.

Portions of the tissue were stained with osmic acid (Fleming's solution) and Sudan III. for fat. The osmic preparations were the less satisfactory since it was hard to distinguish fatty particles from pigment granules. The Sudan preparations, however, showed very well in places moderate fatty degeneration of the endothelium covering the alveolar walls. Sudan III. possesses the property of staining fat-droplets a golden yellow or carmine colour, according to the size of the droplet. In some places the alveolar walls were distinctly picked out by the stain, showing as a