

## APPENDIX.

CASE No. 1.—Cow suffering from the disease in Chicago on Sunday, the 16th of August. The first symptom of illness noticed was an impaired secretion of milk, and the cow appeared dull. On Monday the dullness increased, and on Tuesday she exhibited unmistakable signs of the disease. When we saw her on Thursday, the 20th, she was lying in her stall, with her head inclined backwards, the pulse was quick (one hundred and four) and very weak, there was trembling of the muscles of the shoulder and the flank, and great loss of muscular power, as on attempting to rise she staggered forwards and fell; on a second attempt, and with assistance, she got upon her feet, when she stood with her back arched, hanging head and ears drooping; she appeared very hollow at the flanks and the involuntary trembling continued; she passed urine which was very dark coloured, and in urinating she appeared to suffer pain and irritation; the body was materially increased in temperature, and the lips and tongue were somewhat pale; the heart was beating quickly; the ear applied to the chest could not detect any abnormal sound; the bowels were costive, and the secretion of milk was still taking place, but of course greatly impaired; she drank water readily and would nibble at hay. On Friday morning we made another visit, and found her much weaker; the pulse one hundred and four, and the breathing quickened and panting; the eye had a comatose appearance. At 4 p.m., we again saw her, and since leaving in the morning she had succeeded in moving out of her stall towards a corner of the stable, where she lay moaning. As we were desirous to observe the appearance presented by the viscera after death, her owner, at the request of Dr. Rauch, consented to have her killed, and in company with Dr. R., we made a *post-mortem* examination. When the skin was removed the cellular tissue presented a peculiar yellowish tinge; the lungs appeared healthy; the heart was slightly enlarged and presented towards its apex a number of light spots; the ventricles did not contain any clotted blood; the liver was slightly enlarged and congested, and the gall bladders full of very dark coloured bile; the spleen was very much enlarged, and its internal structure completely broken up; the third stomach was full, and the fourth, or true digestive stomach presented a few ecchymosed spots; at various parts of the small intestines the same appearance was noticed; the kidneys were very dark in colour, and the pelvis showed small ecchymosed spots, and from the uriniferous tubes exuded small quantities of dark coloured urine; the bladder was not much distended, but the urine it contained was very dark. This cow had neither been in contact with the Texan cattle nor on the pastures, for a period of three weeks previous to her illness.

CASE No. 2.—Yearling heifer at Champaign that died after two day's illness. As far as we could learn she presented the usual symptoms; an unsteady walk, drooping head and dull eye, arched back, and hollow flanks, &c. The *post-mortem* appearances were as follows:—The right lung slightly congested; the heart flabby and studded with blood extravasations as in the case at Chicago, but not quite so well marked; the inner coat of the true digestive stomach presented the appearance of the action of an irritant poison, the duodenum also showed ecchymosed spots; the liver congested and the gall bladder full of dark coloured and very thick bile; the spleen very large and completely disintegrated; the bladder was full of dark coloured urine; the flesh generally was pale and had the appearance of the flesh of an animal bled to death.

CASE No. 3.—Made a *post-mortem* examination of a cow, five years old, that died after three day's illness. The appearances of the viscera was similar to former case.

CASE No. 4.—Yearling steer at Mr. Sheldon's, near Urbana. This steer had been ill for two days, and he presented a very dejected appearance, with head hanging and ears drooping forwards, the flanks fallen in, the back arched, and the breathing quickened; the pulse ninety-six, and weak; a discharge of dirty mucus from the nostrils; the coat was staring and the walk was very unsteady; the fæces hard and passed with great effort.

CASE No. 5.—Two year old cow—showed symptoms similar to the above, the pulse only 80.

CASE No. 6.—At Mr. McCoy's, near Berlin. *Post-mortem* examination of a steer that died the morning of our visit. The heart large and its muscular substance flabby, the left ventricle and covering of the heart studded with light spots; the inner coat of the fourth stomach and the duodenum showed inflammatory action; the liver and spleen very large, and

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