

colt, and subsequently though bred to thoroughbred horses she never produced one without the stripes which had been given to her through her imagination, and we must suppose love; just as I take it in this way, that so many good looking and fine women, intellectually and otherwise, are seen in Canada, England, Baden-Baden, and other places married to little miserable men who are not fit to black the boots of the lady who has brought their insignificance to the fore, and through their infatuate love brought up their offspring, like the mother, no, unfortunately for the world, like the person who calls itself the father; and so it is with the mare, put a donkey to a mare which is so frequently done that nobody thinks it a sin, what is the result, a mule, an animal that is a sin to Nature itself, an Hybrid, a beast without intellectual faculties which, without doubt, its mother had, but its father the jack-ass (truly called so) has never known or appreciated. All these things I cite as an instance and a sure fact of the imagination, and to induce my readers to keep the mares they have under their charge or of their own, free even from the sight of anything unsightly or that may make an impression on the minds of the females in that critical condition. Take it in cows: In general if one cow has a miscarriage even (as at a home in England) in a thirty acre lot, all the other cows in calf miscarry, and although other Veterinary Surgeons a great deal better than myself, and whose writings I delight to follow, and whose teachings are thoroughly honest and good, yet I think they (though I know I am presuming in saying) that had they reasoned by analogy they would have found this lamentable affection to have been caused by sympathetic imagination, even the same as one man or one woman (more especially) sympathizes with another in any affliction.

BONE SPAVIN.

A PAPER READ BEFORE THE MONTREAL VETERINARY ASSOCIATION BY JAMES R. McLAUGHLIN, SECOND SESSION STUDENT AT THE VETERINARY COLLEGE.

The hock, the seat of this disease is anatomically known to you all; its structure and the functions which it performs are more intricate and complex than those of any other joint in the frame. Its great liability to injury is also an undeniable and established fact, and I am therefore safe in saying that of all the diseases to which the limbs of a horse are subject, this is one of the worst. Occurring as it does in this most important joint in the extremities, it can never be entirely eradicated, and from its first appearance the animal is ever after unsound.

All forms of ankylosis of the true hock joint are recognized as spavins, but it usually presents itself as an exostosis on the antero-internal part of the hock between the cuneiform parvum and inner splint bone, but may occur on any part of the joint or involve the whole.

It is generally the result of inflammation excited in any of the cuneiform bones and metatarsals or inner splint, either from injury directly applied to the bones, or extension up of inflammation from the interosseous ligaments.

Its appearance between the cuneiform parvum and inner splint is accounted for by the fact that they are directly situated in the centre of gravity, and consequently more under the body.

As a result of any concussion to the cuneiform parvum, we also have the inner splint or its appendages involved, and as at the articulation of these two bones, we find spavin occurring most frequently. Injury to them will give rise to inflammation, generally originating in their cancellated structures. An exudation is then thrown out between them and their cartilages perverting the nutrition of the latter, consequently they ulcerate and are destroyed, and direct communication of the cancellated structures of the bones ensues. At the same period that this internal destructive process is occurring, a further exudation is thrown out, forming a band of lymph on the periosteal surfaces extending from one bone to the other effecting their union into this lymph the blood vessels penetrate, ultimately converting it into bone and thus their complete union prevents all further action of the joint. In old animals the calcareous deposit is generally confined to the periosteal surface, and yet the destructive process in the interior still continues; but in young or middle aged horses lymph is thrown out between the ulcerated surfaces of the bones, when it sooner or later undergoes ossification, thus effecting their union completely at all points.

Therefore we need not wonder that a cure of the lameness is so seldom accomplished in old animals, no matter how extensive the deposit

which, in turn, should correspond to a straight line drawn from one to the other, and to the ground. No great degree of obliquity should be permitted to the direction to the ossa suffraginea, nor should they tend to a vertical position. Of the foot I need say little, but I would draw your attention to one fact in connection with it. Find me a neglected, badly-formed foot, and I can invariably find you a spavin. Thus we may see in all parts, or in one alone, spavin predisposed. If we carefully notice the peculiarities in connection with the entire formation of the hind extremities in trotting horses, and further note the prevalence of spavin in animals of this class, we can very readily fix in our mind the structure of hock liable to the disease.

Not only is the animal more or less "cow hocked," but the whole limb takes a forward direction, that is, it has a tendency to reach far under the body, and no matter how large or coarse the animal may be you will generally find a spavined horse possessed of considerable trotting action. Another formation is that which is designated "curby hock," where the metatarsals are very small compared to the joints depending on them for support, offering but little surface upon which the lower row of hock bones can rest, often to such a slight extent as to allow them to project quite a distance, and instead of a gradual tapering from the hock to the metatarsal we often find them both forming an acute angle, but frequently we see hocks of this description never the seats of spavin, yet joints perfect in formation often spavined. In the former instance we are surprised, but in the latter case when we cannot trace the cause to other parts of the limb, we may attribute them to direct human agency. In the hock is located the power which propels the whole body forward whether the duty required be speed or draught, and considering the abuses to which our equine friends are subjected we need not wonder at the prevalence of disease no matter what formation of hock we find.

(TO BE CONTINUED.)

EXAMINATIONS OF MONTREAL VETERINARY COLLEGE.

The examinations of this College, which were concluded on Thursday, 30th ult., were of a very satisfactory nature, some of the students having attained a degree of proficiency seldom met with hitherto among the students of this profession.

The examination for first year students in Botany and second year students in Chemistry and Physiology were conducted by the Professors of McGill University, the same as the Medical, some of them in each class receiving a high percentage of marks both in written and oral examinations. The final examination of third year students was held at the Veterinary College during Monday, Tuesday and Thursday.

In Botany, eight presented themselves, seven passed; in Chemistry, six presented themselves, all passed; in Physiology, five went up and passed.

The final examination comprised Veterinary Anatomy, Veterinary Medicine and Surgery—including the diseases of horses, cattle, sheep and dogs, and Veterinary Materia Medica. Six went up, and, after a searching examination on all the subjects, succeeded in passing most creditably, and were admitted as members of the profession—viz.: Austin H. Baker, Dunham, P. Q.; Vital Provost, St. Sebastian, P. Q.; Thos. Blackwood, West Shefford, P. Q.; Jeddo C. Fogg, Boston, Mass.; John O. Mulloy, Boston, Mass.; Oliver C. Furley, Chelsea, Mass.

The competition for prizes by written examinations resulted as follows:

First prize, silver medal, the gift of the Council of Agriculture, P. Q., won by Austin H. Parker; 2nd prize, won by Thomas Blackwood. Honorable Mention: Jeddo C. Fogg. Second year students: 1st prize, C. O. Lyford; 2nd prize, John F. Ryan. Honorable Mention: Wm. H. Hale. Messrs. McLaughlin and Lyford were specially complimented by the examiners on the high percentage of marks they attained; the former in Chemistry and Physiology, the latter in Chemistry, not having been examined in Physiology.

Alexander Waddell, M. R. C. V. S., Quebec, on presenting the prizes, addressed the new graduates, complimenting them on their success, and urging on them not only the desirability but the absolute necessity of continuing their studies after leaving college.

Mr. Coleman, V. S., followed in a few well chosen remarks, complimenting them on the result of the examination.

Dr. George Leclerc, Secretary of the Council of Agriculture, in presenting the diplomas, hoped that the possession of them would stimulate them to further progress.

Professor McEachern entertained the Examiners and Graduates, and a few other students, at dinner. Among the toasts of the evening were "The Successful Graduates," to which

average 3.37; loser's 2.66. Winner's best run 29; loser's 27.

Bennett, 800; W. Jakes, 281. Winner's average 4.47; loser's 3.44. Winner's best run 36; loser's 31.

Watson, 800; Capron, 127. Winner's average 6.12; loser's 2.59. Winner's best run 56; loser's 31.

THURSDAY, 30TH.

The playing was brought to a close this evening with a game between Messrs. S. Jakes and Capron for the fourth prize and an outside stake of \$200; 400 points. It was pretty close all through the game, but Jakes finished the winner by 24 points, the score being

S. Jakes, 400; Capron, 376. Winner's average 3.12; loser's 2.29. Winner's best run 15; loser's 27.

The following is a tabulated statement of the games played, won, and lost:

NAME	GAMES	WON	LOST
W. Jakes.....	1 1 1 1 1 0	5	1
Bennett.....	0 1 1 0 1 1	4	2
Watson.....	1 0 1 0 1 1	5	2
Capron.....	1 0 1 0 1 1	4	3
S. Jakes.....	0 0 1 0 1 1	4	8
Monbleau.....	1 1 0 1 0 0	3	4
Goughier.....	1 0 0 0 0 0	1	6
Derome.....	0 0 0 0 0 0	0	7

Watson forfeited to Bennett for second prize.

S. Jakes beat Capron in playing off the tie.

VIGNAUX AND SEXTON.

This match ostensibly for the championship of the world, but in reality something else, was played at Paris, France, on Friday evening last. Maurice Vignaux is a resident of Toulouse, France, and Wm. Sexton, of New York City. The match was won by Vignaux by a score of 600 to 459. Sexton made the largest run of the game, 129.

The boys of Wentworth School, Hamilton, have not been daunted by the present wintry aspect of the playground, but have organized a first-class foot ball club. The officers have been appointed, and all things made ready for a short and brisk season of work. Rugby rules have been adopted.

A SPOON OF EGGS.—A Niagara (Ont.) correspondent of the St. Catharines News sends that paper an account of a shower of goose eggs that he alleges fell in that historic neighborhood during a heavy snow storm last Monday week. He says hundreds of splendid eggs were jeked up on a field near his house, and he says he intends to "set" a lot of them. He accounts for the phenomenon on the hypothesis that a flock of wild geese, going north, became bewildered in a storm, and were unable to reach their usual haunts in time to deposit their eggs in the orthodox way.

HARVARD UNIVERSITY VS. CANADIAN FOOT BALL ASSOCIATION.—This match has been fixed to take place at Harvard on Monday, May 8th. The Canadian team will be composed of nine representatives from Ontario and six from Quebec. The Hamilton Club will probably send four players, and the Argonauts of Toronto five, making the nine from Ontario. The Hamilton men are not yet determined on, but should think Ker, Palmer, H. Hope, and Wynyard, or Hoskins, would be the most likely selections.

CAMPBELL'S QUININE WINE.—Report from Dr. J. Baker Edwards, Ph. D. D.C.L. F.C.S. Professor of Chemistry and Microscopy.

I hereby certify that I have carefully analysed the samples of "Quinine Wine" submitted to me by Messrs. Kenneth Campbell & Co., with the following result:

No. 1.—Dark in color and turbid, deposits a muddy sediment on standing, has a sweet and acid taste, Orange Flavor and scarcely bitter, yields on evaporation a thick syrup of inverted sugar, contains only a microscopic trace of Quinine and Quinidine. Is made with Orange Wine.

Sample X.—Dark color, with dark muddy deposit on standing, has an acid and slightly bitter taste, contains Cinchonine but no Quinine. Is made with an acid wine, not sherry.

No. 3.—Campbell's—Light color, clear, with no deposit, contains Disulphate of Quinine in the proportion of 1 grain to two fluid ounces. Is made with sound sherry wine.

N.B.—The latter (Campbell's), is the only genuine "Quinine Wine" of the three samples examined.—Signed,

JOHN BAKER EDWARDS, Ph. D. D.C.L.F.C.S. Prof. of Chemistry and Microscopy, Bishops' College and College of Industry, Montreal.

characters will prove quite attractive to Toronto theatre-goers.

The Holmans commenced a short season at the Royal Opera House (French) on Monday evening. Their initial l was Grosse-Grosie, in which Miss Sallie Holman and Messrs. Ryse and Barton made their mark. For to-night they offer the ever popular opera of the Rose of Castile; to-morrow evening Fra Diavolo. A matinee to-morrow afternoon. From here they go to Hamilton, thence to St. Johns, N. S., where they will commence a season in the maritime provinces. Business has been good so far, which promises to continue to the end of the week.

Mr. Kennedy and family, the Scottish Vocalists, announce their last farewell at Shafesbury Hall on Monday, Tuesday and Thursday evenings next.

GENERAL.

Our Buffalo correspondent says:—Miss Charlotte Thompson commenced an engagement at the Academy of Music, on April 4th, in the play of Maud Muller. The Two Orphans, which was to have been produced this week was put over until Monday, April 10th. On April 17th Mr. G. B. Rogers the stage manager at the Academy has his annual benefit. The Buffalo Bill Combination amused the lovers of the sensational at St. James' Hall on April 4th and 5th. Madam Rentz's Female Minstrels give an entertainment on April 8th, and Haverly's Minstrels on the 11th. Numerous pleasing and varied attractions are offered at Shelby's Adelphi this week.

From our Hamilton correspondent we learn the Buffalo Bill combination opened in the Mechanics' Hall on the 28th for a season of two nights. Business fair.

The Hamilton Opera House Varieties succumbed to poor houses on the 25th. Part of the company reopened in the Canterbury Hall on the 30th to a fair business; the remainder will take a benefit on April 3rd in Mechanics' Hall to enable them to leave the city. Experience should have taught managers that a variety show will not pay here; no less than four persons have failed within the last eight months and left their companies in a destitute condition.

A week of legitimate business was commenced at the Academy of Music, Montreal, on Monday evening with Hamlet; Mr. Neil Warner as the melancholy Dane, and Miss Isabella Waldron as Ophelia. On Tuesday evening Damon and Pythias was the bill. Mr. McDowell has been called to New York on account of the very serious illness of his mother.

Harry Lindley with his strong variety company at DeBar's Opera House, Montreal, has been greeted with large houses. The leading people are Nellie Walters, Lottie Wentworth, The Levantines, E. H. Brink, Jerome and Cameron, &c. The Big 4 are announced for an early appearance.

A concert was given in the Norwich Town Hall on Wednesday evening for the benefit of the Cricket Club.

A portion of the company from the Academy of Music, Montreal, has been giving short seasons in Ottawa, Prescott, &c. It goes to Quebec this week.

SERIOUSLY ILL.—We are exceedingly sorry to hear of the illness of our friend Mr. Thomas H. Taylor, who has been confined to his bed for some days, suffering from hemorrhage of the lungs. Mr. Taylor was brought home from Toronto on Friday last, since which time his medical advisers have prohibited him from being seen by any persons besides his immediate attendants. We are sure that all our readers will join with us in our regrets at Mr. Taylor's illness, and our hopes for his speedy recovery.—*Guelph Herald*.

By imported Australian, dam, 3 years old, by Wagner, &c. will stand this season at Montreal. Terms: Thoroughbreds, \$50; half-breds, \$10. For particulars apply to J. ALLOVEY, 241 St. N. Montreal.

THE THOROUGHBRED STALLION HEIMBOLD

By imported Australian, dam, 3 years old, by Wagner, &c. will stand this season at Montreal. Terms: Thoroughbreds, \$50; half-breds, \$10. For particulars apply to J. ALLOVEY, 241 St. N. Montreal.

241 am

YOUNG ERIN CHIEF

This well known trotting stallion will make the season for a limited number of days at the stable of Mr. J. H. Atholme, 1000 Ave. de la Chapelle, Montreal. He is a son of the famous Erin Chief, by Erin Chief, dam by Thomas Jefferson, and dam the Goodough mare by St. Lawrence; 3rd dam by Tippecanoe, dam by Sam Kimble.

\$20 to insure; \$12 for season.

J. H. MANNOTT, Proprietor.

241-hm.

Ontario Veterinary College.

Under patronage Agricultural Council, Ontario for sick and lame horses. A. SMITH, Veterinary Surgeon, Temperance St., Toronto.

The class for junior students will begin January 5th, 1876.

MONTREAL VETERINARY COLLEGE

(In connection with the Medical Faculty of McGill University. Under the patronage of the Council of Agriculture, P. Q.)

SESSION 1876-77 Lectures commence OCT. 3.

For prospectus apply to D. McEACHERN, M.R.C.V.S., Vet. College, Montreal.

240-ty