Index

Α

Abdominal abscessation, 103-104 adult horse with, 103 postmortem examination of horse with, 103 thickened large colon in horse affected by, 104 Abdominal adhesions, 104-105 adult horse with, diarrhea and "cow pie" feces related to, 105 adult horse with severe weight loss caused by, 104 Abdominal pain (colic), 46-52. See also Colic Abdominal region, diseases of, 46-115 abdominal pain (colic), 46-52 large intestine diseases, 78-99 miscellaneous diseases, 103-115 small colon diseases, 99-102 small intestine diseases, 59-77 stomach diseases, 53-59 Abdominal ultrasonography, 105, 107 Abdominocentesis, in horse affected by peritonitis, 105, 106 Abnormal tooth wear. 36-37 at buccal aspect of tooth 406 and 407 in 10-year-old gelding, 36 severe atypical wear of mandibular incisors, 37 Abortion close to term, 502 long umbilical cord as cause of, 502-503 mammary gland enlargement prior to, 501 twinning and, 497-499 Abscesses corneal, 534-535 pulmonary, 604-605 tooth root, 436-437 Acquired flexural contracture, 647 Acquired leukotrichia, 257-259 cribbing strap and, 257 incorrect bandaging and mature quarter horse with, 257 mature guarter horse with, 257 Actinobacillosis, 259-260 characteristics and treatment of, 259 mare with, after foaling, 260 mature pregnant mare affected with, serum exudation related to, 259 Actinobacillus equuli, septicemia in neonatal foal due to, manifested as uveitis and hypopyon, 591 Acute pneumonia, 603

Acute renal failure hematuria in horse affected with. 561 horse with severe depression affected with, 560 postmortem photograph of horse affected with, showing severely swollen kidneys, 562 postmortem photograph of kidney in horse affected with, 562 Adenocarcinoma, 181 Adrenal gland, adenoma of, found in horse with clinical signs of PPID, 527 Adrenal tumor adenoma, 527 pheochromocytoma, 527 African horse sickness, 208-209 clinical signs and diagnosis of, 208 pulmonary subserosal petechiae and ecchymoses, 209 severe intermuscular edema, 209 subcutaneous edema of supraorbital fossa, 208 Thoroughbred racehorse with severe conjunctival edema due to, 208 Agitation, colic and, 46, 47-48 AI. See Aortic valve insufficiency Allantoic fluid, normal amount of, 490 Allergens, recurrent airway obstruction (heaves) and, 190 Alloimmune thrombocytopenia clinical signs, diagnosis, and treatment of, 658 mucous membrane petechiae in foal due to, 658 Alopecia dermatophilosis and, 279 dermatophytosis (ringworm) and, 281 onchocerciasis and, 296 telogen defluxion and, 319 ALS. See Amyotrophic lateral sclerosis (Lou Gehrig's disease) Alternaria, phaeohyphomycosis and, 323 Altrenogest (Regumate), 498 American paint horse foals, intestinal aganglionosis (lethal white syndrome) in due to overo-overo mating, 625 Amiodarone, atrial fibrillation treatment and, 154 Amputation, penile, 456 Amyotrophic lateral sclerosis (Lou Gehrig's disease), 237 Anestrus, fetal death followed by, 477 Aneuploidy, intersex and, 473 Angular limb deformity carpal valgus, in foal, 634-636 fetlock varus, in foal, 638 tarsal valgus, in foal, 637

Anhvdrosis, 336-337 clinical signs, diagnosis, and treatment of, 336 dose-dependent sweating in response to intradermal injection of beta-2 agonist in neck of unaffected horse 20 minutes postinjection, 337 horse evaluated for poor performance due to, 336 intradermal injection of beta-2 agonist using tuberculin syringe, 336 intradermal injection of serial dilutions of beta-2 agonist 3 minutes postinjection, 337 Antebrachiocarpal joint, mild osteoarthritis of, 392 Anti-arrhythmic therapy, for hemodynamically unstable horses, 166 Antibiogram, 478 Antibiotic induced colitis horse with watery diarrhea affected with, 102 ultrasonographic image of right dorsal colon of 6-month-old foal with, 102 Anti-inflammatory medications, 191 Anus, ulcerative dermatitis and crusting and erythema around, 657 Aortic aneurysm, 164 postmortem photograph of, 166 Aortic insufficiency characteristics of, 143 color flow Doppler image of, right parasternal long axis view, 143 electrocardiogram from horse with chronic degenerative valve disease, ventricular premature contraction, aortic insufficiency and, 146 M-mode image of mitral valve from horse with, 144 Aortic regurgitation, continuous wave Doppler evaluation of, 144 Aortic root disease, 164-168 Aortic rupture, uniform ventricular tachycardia secondary to, Holter monitor recording, 166 Aortic valve, bacterial endocarditis of, 145 Aortic valve insufficiency, 143-146 echocardiographic image, right parasternal long axis left ventricular outflow view, 143 phonocardiogram of, 145 Aortocardiac fistula color flow Doppler image of, 165 echocardiographic image of, 164, 165 postmortem photograph of rupture into right atrium, 167 Aortoiliac thrombus characteristics of, 168 sonogram of, 168 APC. See Atrial premature contraction Apical fractures, description of, 385 Appaloosa breed, equine recurrent uveitis and, 546 Appaloosa gelding, with chronic incisor periodontal disease with cemental hypoplasia, 19 Arabian fading syndrome, horse affected with, 328 Arrhythmogenic right ventricular dysplasia, 137 Articular facet reaction bone (bone proliferation), 424-425 Articular fracture, of wing of third phalanx, 367-368 Artificial insemination, vaginal examination and, 464 Aryepiglottic fold entrapment, 440-441 Arytenoid chondropathy cause, signs, and treatment for, 188 with "kissing" lesion on right arytenoid, 188

Ascaridiasis, intestinal rupture due to ileal obstruction with Pascaris equorum, 620 Ascarid impaction, 60 Ascending placentitis, 501 Aspiration pneumonia causes of, 196 lateral thoracic radiograph in horse with, secondary to esophageal obstruction, 196 secondary to esophageal obstruction, in a foal, 44 Asynchronous teeth eruption, 27 Ataxia equine herpes virus 1 (EHV-1) myeloencephalitis and, 229 equine protozoal myeloencephalitis and, 234 Atheromas, 260-261 approaching cyst directly from dorsolateral aspect of nostril, 261 weanling Arabian filly with, 260, 261 Atresia ani, in filly foal, 624 Atrial fibrillation, 154-158 base apex surface ECG showing, with delivery of electrical shock, and conversion to normal sinus rhythm, 158 characteristics and treatment of, 154 ECG from horse with, secondary to mitral regurgitation and left atrial enlargement, 154 exercising heart rates in horses with, 155 Holter monitor recording of horse converting from, to normal sinus rhythm, 155 lone, exercising ECG from horse with, 155 rapid, in horse with history of weakness during exercise, 154 rapid and chaotic depolarization in intra-atrial ECG consistent with, 157 Atrial premature contraction nonconducted, Holter monitor recording, 152 with normal ventricular conduction, 152 Atrial rates, elevated, 152 Atrial tachycardia with second degree AV block at rest, 153 during trotting exercise, telemetric recording from horse with atrial tachycardia and second degree AV block, 153 Atrioventricular (AV) block, 151-152 advanced second degree, base apex recording from horse with severe exercise intolerance. 151 second degree at rest, atrial tachycardia with, 153 third degree (complete), base apex recording from neonatal foal with septic myocarditis. 152 Type I second degree, 151 Auditory diverticula, 438 Aural plaques, 262-263 chronic lesions centrally, 262 early lesions peripherally, 262 horse presenting with head-shaking due to, 263 viral basis for, 330 Aureobasidium, phaeohyphomycosis and, 323 Australian stringhalt, 240 Avulsion fracture, of origin of long digital extensor tendon in 2-month-old foal, 644

В

Bacterial endocarditis of aortic valve, 145 tricuspid valve insufficiency and, 146

two-dimensional echocardiographic image, right parasternal long axis view, 141 Bacterial folliculitis, 263-264 of axillae, mature quarter horse with, 263 differential diagnosis of, 263 extension of lesion over pectoral region, 264 Bacterial pneumonia in adult horses clinical signs of, 195 mucupurulent nasal discharge and, 195 "Barker" vocalization, hypoxic ischemic encephalopathy and, Barn fire, postmortem picture of mature horse caught in, 265 Basilar bones, poll impact and damage to, 215 Basilar fracture of medial proximal sesamoid bone, 387 postmortem photograph of horse with, 215 Basilar sesamoid fractures, prognosis for, 387 Basophilic enterocolitis, 101 "Bastard strangles," 204 "Beans," smegma accumulation, in fossa glandis, 461 Bedding, pressure sores and lack of, 272 Belgian/Belgian-cross foals, junctional epidermolysis bullosa in, 339 Belgium draft mare, unusual case of dystocia in, 483 Belly bandages, penile injuries and use of, 455 Beta hemolysis, 478 Bilateral cryptorchidism, 447 Bilateral soft tissue damage, to interdental spaces of young quarter horse, 32 Biopsies, endometrial, 479-480 Bit pressure, bilateral soft tissue damage to interdental spaces and, 32 Bladder with cystitis, postmortem photograph of, 568 with cystolithiasis, 575 infected umbilical remnant with purulent caseous material in umbilical arteries and apex of, 653 premature placental separation and prolapse of, 486 ruptured, ultrasonographic examination of ventral part of caudal abdomen of two foals with, 651 sabulous urolithiasis and, 577 Bleeding gastric ulcer, hemorrhagic nasogastric reflux due to erosion of blood vessel in, 617 "Blind" biopsy technique, endometrial biopsy and, 479 Blindness leukoencephalomalacia (Moldy Corn Disease) and, 224 West Nile Virus and, 225 Blue to white irides, 550 Bone cysts, subchondral, 416 Bone remodeling, mild osteoarthritis of antebrachiocarpal joint and, 392 Bones, diseases of, 353-443 carpus and metacarpus, 392-407 in foals, 630-645 head. 427-443 metacarpophalangeal and metatarsophalangeal joints, 378-391 navicular bone. 356-362 phalanges, 363-378 spine, 422-427 stifle and tibia, 416-421 tarsus and metatarsus, 407-415

Botulism cause, clinical signs, diagnosis and treatment of, 627 recumbent foal with flaccid paralysis due to, 627 Bouin's fluid, endometrial biopsy and, 479 Bovine papilloma virus, 304 Brachial plexus injury, foal with, following dystocia and manual manipulation, 627 Brain abscess, 212-214 causes and clinical signs of, 212 close-up view of, 214 head-pressing in horse affected with, 212 horse affected with, showing droopy lip due to cranial nerve VII deficit. 213 mature horse affected with, showing depressed mentation, 212 postmortem photograph of brain in horse with, 213 Bran disease, 525 Breeding accidents, causes of, 464 "Breeding stitch," poor vulvar conformation and, 474 Brisket edema, in adult horse affected by nonsteroidal anti-inflammatory drugs toxicity, 97 Broken hoof-pastern axis, osteoarthritis of left distal interphalangeal joint and, 365 Bronchial edema endoscopy of crina revealing rounded airway bifurcation and hyperemia consistent with, 191 treatment of, 191 Bronchodilators, 191 Bronchopneumonia, 603 Brucellosis, 271 Bruxism, gastric ulcers and, 56 Buccal mucosal ulcer, sharp enamel point at level of tooth 107 and, 34 "Bucked shin," 403 Bulbar squamous cell carcinoma, invasion of temporal cornea from limbal conjunctiva in 10-year-old paint mare, 552 Bulls, testicular descent in, 447 Burns, 264-269 estimated percentage body surface areas in adult horse, 269 estimated percentage body surface areas in foal, 269 horse healing from, sustained over dorsum of his poll and back when tractor exploded next to his stall, 266-268 postmortem picture of mature horse caught in barn fire, 265 prognosis for and consequences of, 264 "Burns technique," retained placenta and, 504 Bursitis (shoe boil and fistulous withers), 270-272

С

Calcaneus, sequestration of, 413 Calcinosis circumscripta (tumoral calcinosis), 272–273, 420 characteristics of, *272* dorsolateral view of horse affected with, 273 lateromedial view of horse affected with, 273 Calculus accumulation, over and around 404, 20 Campylorrhinus lateralis, *176* Candidiasis, on foal's tongue, 613 Canine tooth, supernumerary, 35 Capture beats, VPCs and, 160 Cardiac arrhythmias, 150–160 atrial fibrillation, 154–158 atrioventricular block, 151–152 sinus rhythm, 150

supraventricular arrhythmias. 152-153 ventricular arrhythmias, 158-160 Cardiac cachexia, mare with, 135 Cardiac tamponade, with pericardial effusion, 129, 132 Cardiomyopathy, 134-136 dilated, two-dimensional echocardiographic image from broodmare in late gestation with congestive heart failure and, 134 Cardiovascular system, diseases of, 119-173 aortic root disease, 164-168 aortic valve insufficiency, 143-146 atrial fibrillation, 154-158 atrioventricular block. 151-152 cardiac arrhythmias, 150-160 cardiomyopathy, 134-136 congenital cardiac defects, 120-128 cor pulmonale, 138 endocardial and valvular diseases, 139-149 endocarditis, 148-149 mitral valve insufficiency, 139-142 myocardial diseases, 134-138 myocarditis, 137-138 neoplasia, 132-133 pericardial diseases, 129-133 pericarditis, 129-132 purpura hemorrhagica, 168-173 sinus rhythm, 150 supraventricular arrhythmias, 152-153 tetralogy of Fallot, 128 thrombosis and thrombophlebitis, 161-164 tricuspid valve insufficiency, 146-147 truncus arteriosus, 126-127 vascular diseases, 161-173 ventricular arrhythmias, 158-160 ventricular septal defect, 120-125 Carpal bone ossification, grading system for, in foals, 633 Carpal bones grade 1 ossification of, in foals, 633 grade 2 ossification of, in foals, 634, 636 Carpal valgus angular limb deformity of, in 2-day-old quarter horse foal angular limb deformity of, in 4-week-old quarter horse foal, 634.636 angular limb deformity of, in 6-week-old quarter horse foal, 635 foal with. 635 Carpometacarpal joint, severe osteoarthritis of, 394 Carpus isotope uptake in dorsal aspect of distal carpal row. 396 normal, in 30-day-old Standardbred foal, 632 prematurity and incomplete ossification of cuboidal bones in, 599 sclerosis of radial and intermediate facets of third carpal bone, 396 soft tissue swelling of, 392 Carpus and metacarupus, 392-407 avulsion fracture of origin of suspensory ligament, 405 enchondroma and enthesiophyte formation at attachment of superior check ligament, 402 fractures of distal radius. 398 fourth metacarpal bone with evidence of osteomyelitis, 407

radial carpal bone, 397 third carpal bone, 398-400 metacarpal periostitis, 403 normal third carpal bone and third carpal bone with mild sclerosis of radial facet, 395 nuclear scintigraphic imaging of carpus, 396 osteoarthritis of, 392-394 periostitis at origin of suspensory ligament, 406 radial cysts, 401 soft tissue swelling of the carpus, 392 splint exostosis of second metacarpal bone, 406 stress fracture of third metacarpus, 404 ulnar carpal bone cyst, 401 Caslick's operation, 474, 475 Castration bilateral, testicular torsion with hydrocele and, 460 scrotal hernia after, 460 Cataract hypermature, in young quarter horse, 541 immature, in yearling Arabian filly, 540 mature one month after phacoemulsification, 541 in young Arabian colt, 540 Caudal hooks or ramps, 7 Caudal maxillary sinuses, fluid within, 428, 430, 431 Caudal vena cava epiploic foramen entrapment of small intestines bounded dorsally by, 70 normal boundaries of epiploic foramen and, 71 CEM. See Contagious equine metritis Cemental decay, peripheral, at palatal aspect of 210 and 211, 19 Cervical spinal cord compression, 236 Cervical spine, normal, 422, 427 Cervical tears, 476 Cervical vertebral malformation, 236 Cervical vertebral malformation instability, 424, 425-426 Cervical vertebral stenosis/instability, 236 Chemical scalding alopecia and scaling due to use of alcohol-based leg wrap in mature horse, 310 axillary serum exudation in mature horse due to failure to remove shampoo after bathing, 310 periaural serum exudation in mature horse due to failure to remove shampoo after bathing, 309 Chemosis corneal abscess and, 534 with granuloma and periocular calcification, 531 Choke primary, 40-44 clinical signs of, 41 secondary, 45-46, 206 Cholesterol granuloma (cholesteatomas) clinical signs of, 244 postmortem examination of brain of horse affected with, 244 Chondroids appearance typical of, 439 chronic empyema and formation of, 184 Chondroma. 181 Chorioallantois, 486 Choroid detachment, ultrasonographic examination and, 549 Chronic incisor periodontal disease, 19 with concurrent cemental hyperplasia, 20

Chronic pneumonia, 604 Chronic proliferative synovitis, of metacarpophalangeal joint, 381-382 Chronic renal failure, 563-567 bilateral obstruction of upper urinary tract and, 575 dental tartar in horse affected with, 564 depression in horse affected with, 566 oral ulcers and tartar on incisors of horse affected with, 564 peripheral limb edema in horse affected with, 565 postmortem photograph of kidney with multiple cysts from horse affected with, 566 ultrasonographic image of kidney from horse affected with, 567 ventral edema in horse affected with, 565 weight loss in horse affected with, 563 Chronic uveitis, vitreous floaters, collagen clumping, vascularization, and focal dispersion in Appaloosa with, 547 Circumduction, equine protozoal myeloencephalitis and, 234 Cisplatin injections, sarcoid treatment and, 553 CL. See Corpus luteum Cladophialophora, phaeohyphomycosis and, 323 Cleft palate clinical signs and diagnosis of, 613 in newborn foal, 613 Clitoral sinuses, sampling, 465 Clitoris, anatomy of, 465 Clostridial enterocolitis, 620-621 clinical signs, diagnosis, and treatment of, 620 foal with, due to Clostridium perfringens, 620 necrotizing enterocolitis vs., 585 sonogram of ventral abdomen of foal with, 621 Clostridium botulinum, botulism caused by, 627 Clostridium perfringens, foal with clostridial enterocolitis due to, 620 Clostridium tetani, tetanus caused by, 240 Club foot, in foal, 647 Coital exanthema ("spots"), 475 cause of, 475 Colic, 46-52 agitation, flank watching with, 46, 47-48 clinical signs of, 46 equine herpes virus 1 (EHV-1) myeloencephalitis and, 229 facial nerve trauma following severe episode of, 252 frequent lving down and, 46, 50 kicking at the abdomen and, 46, 49 pawing and, 46, 48 rolling and, 46, 51-52 stretching and, 46, 49 tetanus (lockjaw) and, 240 Coliforms, pure culture of, 478 Colitis, antibiotic induced, 102 Collagenolysis, melting corneal ulcer and, 532 Comet tail artifacts, coalescing, with ruptured chorda tendinea and congestive heart failure, 141 Common digital extensor tendon, ruptured, in foal, 646 Congenital cardiac defects, 120-128 tetralogy of Fallot, 128 truncus arteriorsus, 126-127 ventricular septal defect, 120-125 Congenital flexural contracture, 647

Congenital glaucoma, buphthalmic globe in 7-day-old Arabian filly, 537 Congenital goiter, from newborn foal, 522 Congenital hypothyroidism and dysmaturity syndrome, foal with. 660 Congestive heart failure mare with, 135 sonographic image of pulmonary edema in horse with ruptured chorda tendinea and, 141 Conjunctival corneal pedicle flap, healed, 535 Conjunctival edema, severe, due to African horse sickness, 208 Coniunctivitis corneal abscess and, 534 with granuloma and periocular calcification, 531 Constrictive pericarditis, 131 Contagious equine metritis, 461 culturing clitoral sinuses for, 465 Cord length, abortion and, 502 Corneal abscess, 534-535 nonulcerative, 535 treatment of, 534, 535 Corneal degeneration, keratopathy and, 532 Corneal laceration, with iridal prolapse after kick to right facial area. 531 Corneal ulcer indolent with fluorescein stain migrating underneath epithelial flaps, 536 melting, 532 perforated, 534 Coronary artery thromboemboli, numerous myocardial infarcts caused by, 167 Coronitis, in foal with sepsis, 590 Corpora nigra laceration, 550 Cor pulmonale, two-dimensional echocardiographic image from horse with, secondary to recurrent airway obstruction, 138 Corpus luteum, formation of, 462 Cotwin embryos, fate of crushed, 498 Cotwin pregnancies, managing, 499 Cox test (hCG stimulation test), cryptochordism diagnosis and, 448 Cranial cruciate ligament injury, chronic, osteoarthritis of stifle joint and, 418 Cranial deficits, equine herpes virus 1 (EHV-1) mveloencephalitis and deficits in. 229 Cranial nerves guttural pouch diseases and, 182 poll impact and damage to, 215 West Nile Virus and deficits in, 225, 227 Cresty neck insulin resistance and, 516, 517 pituitary pars intermedia dysfunction and, 509 CRF. See Chronic renal failure "Cribber." 37 Crossing over, equine protozoal myeloencephalitis and, 234 Crowded teeth, 24 Crown, large amount of excessive, at mesial portion of 106 in 10-year-old quarter horse stallion, 7 Cryptorchidism, 447-449 bilateral. 447 comparison of normal and cryptorchid testicles, 448

diagnosis of. 448 disruption of spermatogenesis and, 449 image of intra-abdominal testicles in 7-year-old quarter horse stallion. 448 C type (carpal), of infectious polyarthritis in foals, 641 Cubital bursitis, shoe-boil roll in case of, 270 Cuboidal bones congenital hypothyroidism and dysmaturity syndrome and incomplete ossification of, 660 premature and incomplete ossification of, in hock and carpus, 599 Culicoides hypersensitivity, mature quarter horse gelding with, 288 Culturing instruments, for mares, 478 Cushing's syndrome, 274 adrenal tumor, 274 clinical signs of, 274 matted hair coat of horse with, 274 Cutaneous drug reactions (drug eruption) description of, 334 type IV hypersensitivity reaction in horse, 334 vaccinations and, 334, 335 Cutaneous habronemiasis, 275-276 areas affected by. 276 causes and diagnosis of, 275 horse after undergoing treatment for, 275 mature quarter horse with extensive case of, 275 preputial, 276 Cutaneous lymphosarcoma, 277-278 "figure 8" shaped lesion caudal to elbow in horse affected with, 278 horse with firm subcutaneous mass on proximomedial aspect of right front leg, 277 mare with multiple, firm nodules on proximomedial aspect of left hind leg, 278 mature gelding with large, firm mass in ventral perineal region, 277 types of, 277 CVC. See Caudal vena cava CVMI. See Cervical vertebral malformation instability Cyathostomiasis, 93-95 in cecum of horse with strongylosis, causes of, 93 microscopic examination of encysted larvae in intestinal mucosa, 94-95 postmortem photograph of large colon of horse affected with typhlocolitis caused by, 93 Cystitis clinical signs, diagnosis and treatment of, 568 postmortem photograph of bladder affected with, 568 Cystolithiasis, 571 clinical signs, diagnosis, and treatment of, 575 endoscopic image of bladder with, 575 Cysts endometrial, 471-472 iridal. 549 radial, 401 sinus, 429-430 uveal. 551

D Dactylaria, phaeohyphomycosis and, 323 DCM. See Dilated cardiomyopathy DDSP. See Dorsal displacement of the soft palate Decubital ulcers, in foals, 656 Defibrillation, general anesthesia used for, 156 Degenerative joint disease, 379, 410-412 Dehydrated foal, entropion in, 628 Dental structures normal, 432-435 lateral view, 432 maxillary in immature horse, 434 maxillary in mature horse, 434 radiographic projections of skull, 433 ventrodorsal view, 433 Dental tartar, chronic renal failure and, 564 Dental tumor, of mandible, 442-443 Dentigerous cyst, 320-321 Depression acute renal failure and, 560 chronic renal failure and, 566 pyelonephritis and, 567 Dermatophilosis (rain scald), 279-281 diagnosis of, 658 epilating hair results in number of hair shafts stuck within crust of dried serum, 280 in foal. 658 lesions on muzzle. 281 seasonal forms of, 279 severely affected animals with depression, anorexia, and pyrexic condition, 280 Dermatophilus congolensis infection dermatophilosis and, 279 foal infected with, 658 photosensitization and, 301 Dermatophytosis (ringworm), 281-284 clinical signs of, 281 extensive hair loss in Thoroughbred horse affected with, 281-282 overlying scab that can be easily removed, 283 self-limiting treatment for, 284 Dermoid cyst, 284-285 elevation of skin resulting in obvious bump in top line of horse, 284 in horse, clipped prior to expressing contents, 285 manual expression of contents, 285 Diagonal incisor malocclusion (DGL3), 11 deviation of maxilla and, 26 Diaphragmatic hernia, 72, 611 clinical signs of, 611 defect in diaphragm resulting in, 611 lateral thoracic radiograph demonstrating gas-filled loops of viscera in abdomen, 611 Diarrhea hemorrhagic, due to necrotizing enterocolitis, 585 rotavirus, 621 Diastema, periodontal pocket and, 16 Diet, cystolithiasis treatment and change in, 575 Diffuse bronchointerstitial lung pattern, 604 Digital hyperextension deformity, 648 Dilated cardiomyopathy, 134 color flow Doppler evaluation of tricuspid valve in horse with, 135 M-mode echocardiographic image from horse with,

134

Disseminated intravascular coagulation, hemorrhagic gingival margins in foal with, 589 Distal check desmotomy after foal treated for, 648 club foot in foal and, 647 Distal femur, malformation of, and luxation of patella, 643 Distal interphalangeal joint, osteoarthritis of, 364-365 Distal intertarsal joint mild osteoarthritis of, 410 moderate osteoarthritis of. 410 severe osteoarthritis of, 411 Distal metacarpus, Salter-Harris type 2 fracture of, in foal, 642 Distal radial physis, closure of, 632 Distal radius, fracture of, 398 DJD. See Degenerative joint disease Dorsal conchal sinuses, 427 Dorsal displacement of the soft palate intermittent or persistent, clinical signs and diagnosis of, 186 as visualized by endoscopy at rest in horse with dysphagia, 186 Dorsal incisor curvature, in juvenile, 11 DPJ. See Duodenitis-proximal jejunitis Draschia megastoma, 275 Drechslera, phaeohyphomycosis and, 323 Dumb rabies, 239 Duodenal stricture diagnosis of, 618 postmortem specimen from foal with delayed gastric emptying due to, 618 Duodenitis-proximal jejunitis, 75-76 anterior or proximal enteritis, postmortem photograph of, 75 ultrasonographic image of right caudal abdomen showing distension and thickening of duodenum in case of, 76 Dysmaturity, 487 Dysphagia choke and, 206 hypoxic ichemic encephalopathy and, 583 mega-esophagus and, 615 Dysplastic teeth, in aged miniature horse with abnormal mastication, 36 Dystocia foal with brachial plexus injury following, 627 general approaches and forms of, 481-483 general comments about, 481 hydrocephalus as cause of, 481 mesenteric tear as cause of, 483 ruptured gastrocnemius muscle and, 646 salivary cyst as cause of, 482 severe skeletal malformation as cause of, 482 ventral abdominal wall tear and, 649 Ε

Ear, ulcerative dermatitis and epithelial loss in, 657 Ear tooth, 320-321 Ecchymoses in oral mucosa, in horse affected with purpura hemorrhagica, 170 Ecchymoses in vulvar mucosa, in mare affected with purpura hemorrhagica, 171 Ecchymotic hemorrhage, on muzzle of horse affected with purpura hemorrhagica, 171 eCG. See Equine chorionic gonadotropin

Edema chronic renal failure and, 565 of head, in horse with purpura hemorrhagica, 169 Egyptian Arab foals, lavender foal syndrome and, 659 Ehler Danlos syndrome, 286-287 EHV III. See Equine herpes virus III EIPH. See Exercise-induced pulmonary hemorrhage Electrical cardioversion, intra-atrial ECG obtained from horse undergoing, 157 Electrical cardioversion catheters, horse fitted with, 156 Embolic nephritis, in septicemic neonatal foal, 588 Embolic pneumonia, in septicemic neonatal foal, 587 Embryonic death at about 55 days of gestation, 496 due to twinning, 497-499 early and later, 496 general characteristics of, 496 Embryos heartbeat of, early pregnancy monitoring, 463 tracking during early pregnancy diagnosis, 497 Enamel decay, focal areas of, 18 Encephalomyelitis, West Nile Virus and, 225 Enchondroma, at attachment of superior check ligament, 402 Endocardial and valvular diseases. 139-149 aortic valve insufficiency, 143-146 endocarditis, 148-149 mitral valve insufficiency, 139-142 tricuspid valve insufficiency, 146-147 Endocarditis, 148-149 atrial ECG from horse with, involving AV node region, 149 echocardiographic image from horse with history of weakness and near collapse during exercise with, 148 postmortem examination of horse with, showing raised irregular tan areas along right atrial septum, 149 short axis echocardiographic image from horse with, 148 Endocrine system, diseases of, 507-527 adrenal gland diseases, 527 glucose metabolism diseases, 516-517 goiter in newborn foals, 522 hyperparathyroidism, 523-526 pituitary disease, 508-515 thyroid diseases, 518-522 vitamin D toxicity, 523 Endometrial biopsy. 479-480 annotated anatomy of, 480 general comments about, 479 hemorrhage after, 479 jaws of biopsy instrument, 479 Endometrial cups, 477 Endometrial cysts, 471-472 Endometrium, normal epithelial cells from, 478 Endophthalmitis, in horse affected by otitis media-interna (temporohyoid osteoarthropathy), 247 Enilconazole, dermatophytosis (ringworm) treatment with, 284 Enterocolitis, septicemic foal with, 592 Enterocutaneous fistula, in horse as seguela to parietal (Richter's) hernia, 108 Enteroliths intraluminal obstruction of small colon with, 100 photograph of, diagnosis of, 100

Enthesiophyte formation, at attachment of superior check ligament, 402 Enthesopathy, radiographs of navicular bone cyst with, 359 Enthesophytes, 359 Entropion, 628-629 in dehydrated foal, 628 foal after surgical treatment for, 629 foal with, 628 treatment of, 628 Epididymis, comparison of normal and cryptorchid testicles and tail of, 448 Epidural anesthesia, in mare, 481 Epiglottic entrapment by aryepiglottic membrane in racehorse, 187 treatment of, 187 Epiploic foramen, postmortem photograph of normal abdomen in horse showing normal boundaries of, 71 Epiploic foramen entrapment of small intestines, 69-71 postmortem photograph of, 70 Epistaxis in horse with exercise-induced pulmonary hemorrhage, 192 progressive ethmoid hematoma and, 178 Epithelial excoriation, dermatophytosis (ringworm) and, 283 Epitheliotropic lymphosarcoma, clinical signs of, 277 Epizootic lymphangitis (histoplasmosis), 338-339 cutaneous, ulcerative nodules along ventral abdomen and preputial sheath of horse with, 338 description, diagnosis and treatment of, 338 Equine calculi, composition of, 576 Equine chorionic gonadotropin, 477 Equine Cushing's disease, 508 Equine dysautonomia, 109-115 Equine herpes virus 1 (EHV-1) myeloencephalitis, 229-233 adult horse with, with more involvement in hind limbs than in front limbs, 231 atlanto-occipital centesis of cerebrospinal fluid in horse affected with, 232 causes, clinical signs and treatment of, 229 cerebrospinal fluid from horse affected with, showing xanthochromia, 233 flaccid anus and tail in horse affected with, 231 mare with, showing wide-based forelimb stance and knuckling of hind limb, 229 patchy sweating in horse affected with, 232 photomicrograph of cerebrospinal fluid from horse affected with, showing mononuclear pleocytosis, 233 tetraplegia in horse affected with, 230 urinary incontinence and urine scalding in horse affected with, 230 Equine herpes virus III, coital exanthema ("spots") caused by, 475 Equine motor neuron disease, 237-239 adult horse affected by, 237 biopsy of spinal accessory nerve or sacrocaudalis dorsalis muscle and diagnosis of, 238 clinical signs of, 237 diagnosis of. 238 fundus of normal horse, 239 lipofuscinlike pigment in tapetal fundus of retina and, 238 Equine mummies, 500 Equine placentation, practical anatomy and nature of, 504

Equine protozoal myeloencephalitis, 234-235 adult horse affected with, shown with droopy lips due to damaged facial nerve, 235 adult horse affected with, which previously had tetraparesis, 234 adult horse suspected to be affected with, showing atrophy of gluteal muscles, 234 adult horse with tongue paralysis due to, 235 clinical signs of, 234 Equine recurrent uveitis, with corneal stromal vascularization, 546 Equine stud medicine, common diagnostic techniques used in, 478 Equine wobbler syndrome, 236-237 adult horse affected with, showing wide-base stance, 236 adult horse affected with, with failure to replace limbs to normal position when limb is placed in abnormal position, 237 clinical signs and diagnosis of, 236 toe scuffing in adult horse affected with, 236 Erection, persistent, 456 Esophageal diverticulae, secondary choke and, 45 Esophageal lavage, 43 Esophageal obstruction aspiration pneumonia secondary to, in a foal, 44 choke, primary, 40-44 endoscopic image of, 42 endoscopic image of esophagus after resolution of, 42 esophageal laceration and peri-esophageal cellulitis in foal secondary to, 41 esophageal lavage and, 43 long-standing, postmortem image of circumferential esophageal ulceration in horse secondary to, 43 postmortem photograph of megaesophagus in foal secondary to, 44 radiological examination of cervical and thoracic esophagus, equipment for, 42 Esophageal stricture postmortem specimen of foal with, 616 static contrast lateral radiograph of foal's thorax with, 616 Esophagus, diseases of, 40-46 esophageal obstruction (choke), primary, 40-44 esophageal obstruction (choke), secondary, 45-46 Estrone sulphate test, cryptochordism diagnosis and, 448 Estrous cycle, following, 462 Ethmoid hematoma, 431-432 treatment of, 178 E type (epiphyseal), of infectious polyarthritis, in 4-week-old quarter horse foal, 641 Exercise-induced pulmonary hemorrhage, 192-195 chronic, lateral radiograph of racehorse with, 195 clinical signs and diagnosis of, 192 epistaxis postexercise in horse with, 192 grade 1, racehorse with, as detected by tracheobronchoscopy, 193 grade 2, racehorse with, as detected by tracheobronchoscopy, 193 grade 3, racehorse with, as detected by tracheobronchoscopy, 193 grade 4, racehorse with, as detected by

tracheobronchoscopy, 194

photomicrograph of bronchoalveolar lavage fluid showing hemosiderophages in racehorse with, 194 Thoroughbred racehorse with epistaxis and, 192 Exophiala, phaeohyphomycosis and, 323 Exserohilum, phaeohyphomycosis and, 323 External umbilical remnant, infected, 655 External umbilical swellings, diagnostic differentiations for, 654 Extrathoracic airways, diseases of, 176-189 arytenoid chondropathy, 188 dorsal displacement of the soft palate, 186 epiglottic entrapment, 187 guttaral pouch diseases, 181-184 guttural pouch empyema, 182-184 guttural pouch mycosis, 185 guttural pouch tympany, 184-185 laryngeal diseases, 187-188 laryngeal hemiplegia, 188 nasal passages, 176 pharyngeal diseases, 186 pharyngitis, 186 progressive ethmoid hematoma, 178 sinonasal neoplasia and polyps, 181 sinus cyst, 180-181 sinusitis. 179-180 subepiglottic cyst, 187 tracheal collapse, 189 wry nose, 176-178 Eye diseases, 529-556 corneal disorders, 531-536 glaucoma, 537-539 lenticular disorders, 540-543 ocular tumors, 552-556 uveal disorders, 543-551 Eyelid tone, botulism and loss of, 627

F

Face lesions, with pemphigus foliaceus, 299 Facial nerve trauma horse affected with, during episode of severe colic, 252 horse with, after lateral recumbency, 252 False nostril cysts, 260 Fat pads, displacement and/or compression of and distension of middle carpal joint, 392 Fecaliths, intraluminal obstruction of small colon with, 100 Feed impaction, fractured tooth and, 27 Female fetus, transrectal scan of, 485 Female reproductive system diseases. See Reproductive system diseases, female Fetal death followed by anestrus, 477 followed by mummification, 500 Fetal sexing, 484-485 early and late gestation, 484 fetal gender diagnosed during advanced gestation, 485 general comments about, 484 Fetlock hyperextension, severe, 648 Fetlock joint capsule, setpic arthritis in and massive distension of. 384 Fetlock varus angular limb deformity of, in 5-week-old Thoroughbred foal, 638 foal with, clinical photograph of, 638

Fetus, aging of, 464 Fibroblastic lesions, sarcoids and, 304 Fibrofatty metaplasia, cut section of, from adult horse, 137 Fibroma, 181 Fibrous osteodystrophy, 524 First phalanx complete fracture of, 374-375 dorsoproximal, fracture of, 389 osseous fragment arising from plantar margin of, 391 osseous fragmentation of lateral plantar process of, 390 proximal, fracture of, 388 subchondral cystic lesion of, 372 Fistulous withers, 270-272 old horse with, showing purulent debris and rim of granulation tissue, 271 Flank watching, colic and, 46, 47-48 Flecainide, atrial fibrillation treatment and, 154 Flexural deformities club foot in foals, 647 in foals, 647-648 Flexural laxity, in foals, 648 Fly control, habronemiasis control and, 450 Fly infestations, sarcoids and, 304 Foaling cervical tears and, 476 impending, estimating time of, 486 Foaling injuries, 491-495 intra-abdominal hemorrhage, 493 normal contusion of the vagina, 491 rectal, vaginal, and perineal tears and lacerations, 493-495 rectal prolapse, 492 severe vaginal contusions and pelvic subluxation, 492 uterine hemorrhage, 493 vulvar injuries, 475 Foals. See also Neonates, diseases of newborn, goiter in, 522 Fonsecaea, phaeohyphomycosis and, 323 Food hypersensitivity clinical signs of, 335 mature horse with perineal pruritus caused by feed hypersensitivity, 335 Forehead trauma, injuries related to, 220 Foreign bodies intraluminal obstruction of small colon with, 100 postmortem photographs of horse with small colon rupture as result of, 100 Foreign body, oral, 38 Fossa glandis (urethral diverticulum), smegma accumulation "beans" in, 461 "Founder rings," formation of, 376 Fourth metatarsal bone comminuted fracture and osteomyelitis of, 414 comminuted fracture of, 414 Fractured tooth. 27-31 appearance of tooth 308 following removal of buccal fragment, 30 8-year-old warmblood gelding with sagittal fracture of tooth 308, 29 extraction of, 29 multiple sequestrae fragments removed from tooth 408 alveolus, 31

object visible within alveolus 8 weeks postextraction of fractured tooth 408. 30 sagittal, of tooth 206 in middle-aged guarter horse mare, 28 Fractures articular, of wing of third phalanx, 367-368 avulsion, of origin of long digital extensor tendon in foal, 644 avulsion, of suspensory ligament, 405 basilar, of medial proximal sesamoid bone, 387 complete, of first phalanx in 3-year-old Standardbred, 374-375 of distal radius, 398 possible cause of, 398 of dorsoproximal first phalanx, 389 of extensor process of third phalanx, 365-366 of fourth metacarpal bone with evidence of osteomyelitis, 407 of fourth metatarsal bone, 414 incomplete sagittal, of proximal first phalanx, 388 midbody, of medial proximal sesamoid bone, 366 of navicular bone, 361 nonarticular, of wing of third phalanx, 366-367 of palmar process of third phalanx, 369 of patella, 419 of proximal sesamoid bone. 385-387 of radial carpal bone, 396 of ribs, in foals, 645 sagittal, of third phalanx, 366 Salter-Harris type 2, of distal metacarpus, in foal, 642 Salter-Harris type 2, of proximal tibia, in foal, 642 of sphenoid bone and guttural pouch hemorrhage, 441-442 stress, of third metacarpus, 404 of talus, 412-413 of third carpal bone, 398-400 of third metacarpus, 389 tibial stress, 421 Frontal/parietal impact, head trauma and, 214 Frontal sinuses. 427 fluid within, 428 Froth at the mouth, gastric ulcers and, 56, 57 Fumonisin B1 toxin, Moldy Corn Disease and, 224 Functional ileus, lateral abdominal radiograph of 9-day-old Standardbred foal with, 626 Functional obstruction of small intestine. 75-77 duodenitis-proximal jejunitis (anterior or proximal enteretis), 75-76 proliferative enteropathy (Lawsonia intracellularis), 76-77 Fundus, normal, from color dilute pony, 554 Fungal endophthalmitis, 543 Fusarium moniliforme liquefactive necrosis and degeneration of white matter of right cerebral hemisphere due to, 224 moldy corn infected with, 225 Fusions beats, VPCs and, 160 G Gastric dilatation

in horse, with small intestinal obstruction, 53 postmortem photograph of stomach rupture in horse secondary to, 54

Gastric emptying, delayed, sonogram of right dorsal abdomen through 15th intercostal space of duodenum in foal presenting with colic related to, 618

Gastric impaction postmortem photograph of gastric rupture in horse secondary to, 55 postmortem photographs of, 54 Gastric ulcers, 56-59 in foals dorsal recumbency and, 58 frothing at the mouth and, 57 showing signs of colic, 58 of glandular part of stomach, postmortem photograph of, 56 on margo plicatus in foal, postmortem photograph of, 57 of nonglandular part of stomach endoscopic image of, 59 postmortem photograph of, 56 Gastrocnemius muscle, ruptured, in foal, 646 Gastroduodenal ulcer syndrome, 617-618 diagnosis of, 617 rotavirus diarrhea and, 621 stomach from 7-day-old foal with focal ulceration in squamous and glandular mucosa along margo plicatus, 617 Gastrointestinal colic, causes of, 46 Gastrosplenic ligament postmortem photograph of incarceration of small intestine through, 73 postmortem photograph of rent in, through which small intestines have gotten strangulated, 74 GCTs. See Granulosa cell tumors GDUS. See Gastroduodenal ulcer syndrome Geldings, nephrosplenic entrapment of large colon in, 83 Genital squamous cell carcinoma, preputial habronemiasis distinguished from, 276 Geriatric wear, 21 Gestation advanced, fetal gender diagnosed during, 485 late, ventral abdominal rupture in, 488 late, ventral edema in, 488 Gingival ulceration, of systemic origin, 34 Glaucoma, 537-539 clinical diagnosis for, 538 congenital, 537 ocular trauma vs., 538 primary (idiopathic), 537 secondary, 539 Glomerulonephritis, postmortem photograph of kidney from horse affected with. 563 Glossitis in adult horse suspected to be secondary to accidental ingestion of irritant chemical agent, 39 severe traumatic, in adult horse, 38 site of trauma (penetrating) leading to, 39 Goiter. 518 neonatal, 659 in newborn foals, 522 GPM. See Guttural pouch mycosis Grain (carbohydrate) overload, 98-99 adult horse with laminitis due to, 99 adult horse with severe diarrhea due to. 98 clinical signs of, 98 Grand mal seizure, with extensor rigidity and opisthotonos in foal with hypoxic ischemic encephalopathy, 584

Grand Prix-level jumpers, atrial fibrillation and, 155

Granuloma neoplasm vs., 554 periocular calcification and, 531 Granulomatous enteritis. 101 Granulosa cell tumors, 466-467 monocystic, 467 solid, 466 Grass sickness (equine dysautonomia), 109-115 abdominal pain (colic) in horse affected with, 111 adult horse affected with, 109 clinical forms, clinical signs and diagnosis of, 109 drooling of saliva and dysphagia in horse affected with, 110 large colon impaction found during postmortem examination of horse affected with, 111 narrow base stance and leaning against walls in horse affected with. 114 patchy sweating in horse affected with, 112 penile prolapse and paralysis in horse affected with, 115 piloerection in horse affected with, 112 pstosis in horse affected with, 114 rhinitis sicca in horse affected with, showing mucupurulent material in nasal passages, 113 "tucked up" appearance and weight loss in horse affected bv. 110 Greasy heel, 311-313 Gubernaculum, testicular descent and, 447 "Guided" biopsy technique, endometrial biopsy and, 479 Guttural pouch diseases, 182-185 neurological deficits or hemorrhage related to, 182 Guttural pouch empyema, 182-184, 438-439 causes of, 182 endoscopic view of, secondary to streptococcal infection, 182 Guttural pouches, 182 anatomy and, 438 chondroid located in lateral compartment of, 184 chondroids and fluid (empyema), 439-440 endoscopic examination revealing purulent exudate draining from swollen retropharyngeal node inside medial compartment of, 182 poll impact and bleeding into, 215 swelling of, symptoms associated with, 184 Guttural pouch hemorrhage, fracture of sphenoid bone of, 441-442 Guttural pouch mycosis clinical signs and diagnosis of. 185 fungal plaque on wall of right guttural pouch in case of, 185 Guttural pouch openings, purulent discharge draining from, 183 Guttural pouch tympany, 184-185 guttural pouch mycosis, 185 lateral radiograph of foal with, 185 marked distension of throat latch region in foal with, 184

Η

Habronema muscae, 275 Habronema spp., 450 Habronemiasis causes and diagnosis of, 450 hemosemen due to, 450 on penis of quarter horse stallion, 450 Haematopinus asini, 291 Halicephalobus spp. greatly enlarged left sinus of 10-year-old mare infected with, 569 ultrasonographic image of right kidney of pony mare affected with verminous nephritis caused by, 569 Hard fixative, endometrial biopsy and, 479 HCM. See Hypertrophic cardiomyopathy Head, 427-443 anatomy and guttural pouches, 438 anatomy of skull, 427-428 dental tumor of mandible, 442-443 ethmoid hematoma, 431-432 fracture of sphenoid bone and guttural pouch hemorrhage, 441-442 guttural pouches empyema, 438-440 mandibular osteomyelitis, 443 normal dental structures, 432-435 normal larynx and aryepiglottic fold entrapment, 440-441 sinus cyst, 429-431 sinusitis, 428-429 tooth root abscess. 436-437 Head-pressing brain abscessation and, 212 hepatoencephalopathy and, 223 leukoencephalomalacia (Moldy Corn Disease) and, 224 verminous meningoencephalomyelitis and, 228 Head tilt, in horse affected by otitis media-interna (temporohyoid osteoarthropathy), 246 Head trauma, 214-222 adult horses affected with due to poll impact, 215, 216 due to poll impact, showing bloody discharge from ear, 217 due to poll impact, with wide-base stance, 219 showing abnormal wide-base stance, 214 adult horse with recumbency caused by, due to poll impact, 217 cerebrospinal fluid sample from horse affected with, showing presence of frank blood due to acute hemorrhage, 221 cerebrospinal fluid sample from horse affected with, showing xanthochromia characteristic of longer cases of head trauma, 223 close-up view of fracture, 216 cytological examination of cerebrospinal fluid sample from horse affected with. 223 donkey foal affected with, blindness and paralysis due to, 220 in foal, blindness and optic nerve dysfunction due to, 218 permanent dilatation of pupils in foal with, 220 postmortem photograph in foal with, showing severe intracranial hemorrhage, 221 postmortem photograph of eyeball and optic nerve from foal with, 218 postmortem photograph of skull from horse affected by, and fracture of occipital condyles, 219 Heaves accumulation of mucopurulent respiratory secretions in trachea of horse with, 190 horse flaring its nostrils during attack of, 190 Helminth infection, cutaneous habronemiasis and, 275 Hematomas, estrous cycle and, 462

Hematuria. 570 at end of urination in horse affected with urethral defect, 570 in horse affected with acute renal failure, 561 renal or ureteral calculi and, 575 Hemolysis, severe acute, pigmenturia from foal with, 601 Hemosemen, 449-450 habronemiasis and, 450 habronemiasis on penis of quarter horse stallion, 450 trauma and, 449 unknown etiology of, 450 Hemosiderin deposition, progressive ethmoid hematoma and. 178 Hepatoencephalopathy, 223-224 adult horses affected with as result of diffuse hepatitis, 223 as result of diffuse hepatitis, showing signs of photodermatitis, 223 showing icteric sclera, 224 clinical signs of, 223 Hernias diaphragmatic, 72, 611 omental, 109 parietal (Richter's), 108 scrotal. 457-460 in foal, 625 umbilical, 108 Heterotrophic polydontia, 320-321 HIE. See Hypoxic ischemic encephalopathy High ringbone, osteoarthritis of, 363 Hirsutism Cushing's syndrome and, 274 pituitary pars intermedia dysfunction and, 508, 509, 510, 512, 513 HIS. See Hypoxic ischemic syndrome Histoplasma capsulatum var. farciminosum, in ulcerated nodule showing yeast organisms surrounded by clear halos, 339 Histoplasmosis, 338-339 Hock excessive flexion of, due to rupture of gastrocnemius muscle, 646 prematurity and incomplete ossification of cuboidal bones in, 599 Hock joint, stringhalt and hyperflexion of, 240 Holosystolic crescendo decrescendo murmur. 120 Holter monitor recordings of horse receiving reserpine, 151 uses for. 150 Hooks or ramps, 9 Horner's syndrome adult horses affected with droopy left eyelid (ptosis) and, 245 sweating at base of ear and, 245 clinical signs of, 245 Horses, testicular descent in, 447 Hydrocele, right-sided, testicular torsion and, 460-461 Hydrocephalus, as cause of dystocia, 481 Hydrops allantois, 490 Hymen intact, bulging through vulvar lips of mare, 464 persistent, breeding accidents and, 464

Hyperadrenocorticism (Cushing's syndrome), 274 Hyperechoic linear strands, within fluid indicative of fibrin and septic process, 595 Hyperelastosis cutis (Ehler Danlos syndrome) hyperelasticity of skin in horse with, 287 prolonged skin tent time in horse with, 287 in 3-year-old cutting horse, showing region of reduced pigmentation, 286-287 Hyperhydrosis, 274 Hyperkalemic periodic paralysis, 344-345 clinical signs of and breeds affected by, 344 prolapsed third eyelid in horse affected with, 344 quarter horse affected with, showing sweating and muscle cramping, 344 respiratory distress and flaring of nostrils in horse affected with, 345 Hyperlipemia and hyperlipidemia, 115-117 clinical signs of, 115 fatty and swollen liver obtained during postmortem examination from pony affected with, 117 icteric mucous membranes of pony affected with, 116 milky plasma in pony affected with, 116 in pony, 115 Hypermature cataract, 541 Hyperparathyroidism, 523-526 primary, 523-525 secondary, 525-526 Hypertrophic cardiomyopathy M-mode echocardiographic image of left ventricle from horse with, 136 two-dimensional echocardiographic image showing markedly thickened left ventricular free wall and interventricular septum, 136 Hypodema spp., verminous meningoencephalomyelitis and. 228 Hyponatremia foal with, in opisthotonos with seizure activity characterized by rapid chewing and tongue protruding movements, 626 nervous signs and differential diagnosis of, 626 Hypotensive horses, recognizing signs of, 156 Hypothyroidism, neonatal, 659 Hypoxic ischemic encephalopathy, 581 grand mal seizure with extensor rigidity and opisthotonos in foal with, 584 lack of tone of nasopharvngeal region in foals with. 583 lavender foal syndrome differentiated from, 659 loss of suckle reflex and tongue control with, 582 nasogastric reflux due to small intestinal ileus in foal with, 584 tonic muzzle contractions as focal seizure activity with, 583 Hypoxic ischemic syndrome, 581-586 description, clinical signs and diagnosis of, 581 foal recovering from, 581 loss of affinity for mare in foal with, 581

I

IAD. See Inflammatory airway disease Icteric sclera, hepatoencephalopathy and, 224 Idiopathic eosinophilic enterocolitis, 101 Idiopathic immune mediated keratouveitis. 546 Idiopathic inflammatory bowel disease loose feces associated with, 101 severe weight loss associated with, 101 lleal hypertrophy, 60 Ileal impaction, 59 lleocecal intussusception, 74 Immature cataract, 540 Immune-mediated vasculitis, 326 Incisors curvature of, 11-12 dorsal, in juvenile, 11 ventral, in aged horse, 12 irregular malocclusion of, 12 permanent, large area of enamel decay and involvement of. 18 supernumerary, 13 third, overlong distal portion of, 10 Indolent corneal ulcer, treatment of, 536 Infections, burn-related, 264 Infectious polyarthritis (septic arthritis) C type (carpal), in foals, 641 diagnosis and treatment of, 639 E type (epiphyseal), in 4-week-old guarter horse foal, 641 in foals, 639 P type (physeal), in older foals, 640 P type (physeal), in 4-week-old Standardbred foal, 640 S type (synovial), in 4-week-old Standardbred foal, 639 T type (tarsal), in 4-week-old quarter horse foal, 641 Infectious pulmonary diseases, 195-203 aspiration pneumonia, 196 bacterial pneumonia in adult horse, 195 interstitial pneumonia in adult horses, 201-203 pleuropneumonia, 196-201 Inferior brachygnathism (parrot mouth), in foal, 614 Infertility, 469-480 aneuploidy and intersex, 473 coital exanthema, 475-476 endometrial biopsy, 479-480 fetal death followed by anestrus, 477 lymphatic lacunae or cyst, 471-472 periovarian adhesions, 476 poor vulvar conformation, 474 pyometra, 470 routine culture and cytology to investigate infertility. 478 transitional state, 469 transluminal adhesions, 471 vulvar injuries, 475 Inflammatory airway disease, mucupurulent exudates visible by endoscopic examination of trachea of racehorse with, 191 Inhibin, 466 granulosa cell tumor, 466, 467 Insect bite hypersensitivity, 288-289 clinical signs and differential diagnoses of, 288 mature guarter horse gelding with, 288 tail head of mature horse with. 288 Insulin resistance, 516-517 close-up of neck of horse suffering from, 517 in horse with normal to low condition score, 516 typical phenotype of horse with, 516

Integumentary system, diseases of, 255-341 acquired leukotrichia, 257-259 actinobacillosis, 259-260 anhydrosis, 336-337 Arabian fading syndrome, 328 atheroma, 260-261 aural plaques, 262-263 bacterial folliculitis, 263-264 burns, 264-269 bursitis and pressure sores, 270-272 calcinosis circumscripta (tumoral calcinosis), 272-273 Cushing's syndrome, 274 cutaneous drug reactions, 334-335 cutaneous habronemiasis, 275-276 cutaneous lymphosarcoma, 277-278 dermatophilosis (rain scald), 279-281 dermatophytosis (ringworm), 281-284 dermoid cyst, 284-285 epizootic lymphangitis (histoplasmosis), 338-339 food hypersensitivity, 335 hyperelastosis cutis (Ehler Danlos syndrome), 286-287 insect bite hypersensitivity, 288-289 junctional epidermolysis bullosa, 339-341 lethal white syndrome, 289-290 lice (pediculosis), 291-292 melanoma, 293-294 nodular necrobiosis (eosinophilic collagen necrosis), 294-295 onchocerciasis, 295-296 pemphigus, 297-301 phaeohyphomycosis, 323 photosensitization, 301-303 sarcoidosis, 306-307 sarcoids, 304-306 scalding (urine, serum, chemical), 307-311 scratches (greasy heel, pastern dermatitis), 311-313 sporotrichosis, 313-315 squamous cell carcinoma, 316-317 stud crud (idiopathic cannon keratosis), 318 sunburn, 318 telogen defluxion, 319-320 temporal teratoma, 320-322 tick infestation. 324-325 urticaria, 325-326 vasculitis (immune-mediated or photoactive), 326-327 vitiliao. 329 warts (papillomatosis), 330-332 winter atopy, 333 Interdental spaces, bilateral soft tissue damage to, in young quarter horse, 32 Intermittent dorsal displacement of the soft palate, 186 Intersex aneuploidy and, 473 description of condition, 473 Interstitial pneumonia in adult horses, 201-203 causes, clinical signs, and diagnosis of, 201 lateral thoracic radiograph of horse with, 202 postmortem photograph of lung with, 202, 203 showing signs of, 201 sonogram of thorax showing "sheets" of comet tail artifacts seen with, 607

676 Index

Intestinal aganglionosis (lethal white syndrome) description of. 625 foal with. 625 Intestinal atresia clinical signs and diagnosis of, 624 type 3, of large colon, 624 Intestinal obstruction, caused by Pascaris equorum, diagnosis of, 620 Intra-abdominal hemorrhage, 493 Intralesional bacilli Calmette-Guerin, sarcoid treatment and, 553 Intrascleral prosthesis, 551 Intrathoracic airways, diseases of, 190-203 African horse sickness, 208-209 aspiration pneumonia, 196 bacterial pneumonia in adult horses, 195 exercise-induced pulmonary hemorrhage, 192-195 infectious pulmonary diseases, 195-203 inflammatory airway disease, 191 interstitial pneumonia in adult horses, 201-203 noninfectious pulmonary diseases, 190-195 pleuropneumonia, 196-201 pneumothorax, 203-204 recurrent airway obstruction (RAO, heaves), 190-191 strangles, 204-207 thoracic wall and pleural diseases, 203-204 Intravitreous hemorrhage, uveitis and, 545 Intussusception, 619 jejunojenunal, postmortem specimen of, in foal, 619 large intestinal, 87 small intestinal, 74 target lesion seen on ultrasonography diagnostic for, 75 ultrasonographic image of, in foal revealing classic "bull's-eye" appearance, 619 Iridal cysts, behavioral anomalies related to, 549 Iridal prolapse treatment of, 548 yellow-tan colored fibrin within anterior chamber of eye of young filly, 548 Irregular incisor malocclusion, 12 Ivermectin deworming with, and avoidance of cutaneous habronemiasis, 276 habronemiasis treatment and, 450

J

Jaundice, marked, throughout body due to neonatal isoerythrolysis, 602 JEB. See Junctional epidermolysis bullosa Jejunojejunal intussusception, signs of, 619 Jennys (or "jennets"), gestations of, 487 Jet lesion. 142 Joints, neonatal diseases in, 630-645 Joint sepsis, severe osteoarthritis of carpometacarpal joint and, 394 Jugular vein postsurgical removal, 163 sonogram of septic thrombophlebitis of, 161 Jugular vein thrombophlebitis postoperative appearance of horse previously affected with, 164 surgical removal and, 163

Jumpers, decubital ulcer formation prevention in, *627* Junctional epidermolysis bullosa, 339–341 blistering of gums and mucocutaneous junction of mouth, 339 blistering of perineal area, 340 characteristics of, *339* pressure sores developing over bony protruberances, 341 sloughing of hoof, or "red foot," 340

Κ

Keratitis chronic uveitis and, 548 in horse affected by otitis media-interna (temporohyoid osteoarthropathy), 247 Keratomas description of, 370 lateral and dorsoproximal-palmarodistal oblique radiographic projections of right hind foot of 10-year-old Appaloosa, 370 Keratomycosis clinical manifestations and diagnosis of, 533 large, 533 Keratopathy, aged mare with band keratopathy, 532 Keratouveitis idiopathic immune-mediated, 546 severe, Rhodococcus equi infection and, 608 Kicking at the abdomen, colic and, 46, 49-50 Kicking injuries, 453-455 breeding, hydrotherapy and, 453 by other horses comminuted fractures of fourth metatarsal bone and, 414 sequestration of calcaneus and, 413 penile injury and hematoma, in 3-year-old Appaloosa stallion, 454 plexus damage during mounting, 454 suspensory choices for penile injuries, 455 Kidneys of horse affected with acute renal failure, 562 with multiple cysts from horse affected with chronic renal failure. 566 sagittal section, from horse affected with glomerulonephritis, 563 ultrasonographic image of, in horse with chronic renal failure, 567 Knuckling, equine protozoal myeloencephalitis and, 234

L

Laceration, of oral mucosa caused by sharp enamel point on distal aspect of 211 as it occludes with 311, 33
Lameness, fracture chip of dorsoproximal first phalanx and, *389*Laminar thickening, laminitis with rotation and laminar separation and, *375*Laminitis chronic

in left forefoot of 12-year-old pony, 376
in 10-year-old pony, 377
grain (carbohydrate) overload and, in adult horse, 99
insulin resistance and, 516
pituitary pars intermedia dysfunction and, 508, 511
with rotation and laminar separation, 376

Large colon displacement, 82-85 left and right, 82 Large colon impaction, 86-87 long-standing, adult horse who has developed colitis and diarrhea with. 86 postmortem photograph of horse with, 86, 87 risk factors with, 86 Large colon volvulus, 78-82 cross and sagittal section diagram of location of left large colon in normal horses and horses with degrees of, 79 horse with abdominal distension due to, 78 postmortem photograph of, in horse showing site of rotation between strangulated and nonstrangulated parts of large colon, 79 postmortem photograph of, in horse with severely thickened large colon, 79 postmortem photograph of horse with, 78 ultrasonographic image of left ventral abdomen in horse with, showing thickened large colon in cases of, 82 ultrasonographic images of abdomen in normal horse, 80 ultrasonographic images of left ventral abdomen in horse with 540° of, 81 ultrasonography and diagnosis of, landmarks for ventral colon. 80 Large intestinal intussusception, ultrasonographic image of right paralumbar fossa showing classic target lesion (bull's eye) of, 87 Large intestines, diseases of, 78-99 grain (carbohydrate) overload, 98-99 large colon displacement, 82-85 large colon impaction, 86-87 large colon volvulus, 78-82 nonsteroidal anti-inflammatory drugs toxicity, 95-98 salmonellosis, 88-91 strongylosis, 92-95 Laryngeal diseases, 187-188 arytenoid chondropathy, 188 epiglottic entrapment, 187 laryngeal hemiplegia, 188 subepiglottic cyst, 187 Laryngeal hemiplegia cause and treatment of, 188 left, in horse with complaint of exercise intolerance, 188 Larynx, normal, 440 Lateral plantar process of first phalanx, osseous fragmentation of. 390 Lateral styloid process, ossification of, 632 Lavender foal syndrome foal affected with, showing characteristic lavender coat color, 659 neurological signs and diagnosis of, 659 LCD. See Large colon displacement LCI. See Large colon impaction LCV. See Large colon volvulus LDLC. See Left dorsal displacement of large colon Lead poisoning, 243-244 acute, tongue paralysis and dysphagia in horse affected with. 243 clinical sign, diagnosis, and treatment of, 243 horse with, following oral ingestion of lead solders, 243 lead pellets found in stomach of horse with acute cerebral dysfunction, 244

Left dorsal displacement of large colon, 83-85 cross-section diagrams of abdomen of horse with advanced stage of, 84 early stage of, 83 and its treatment by rolling, 84-85 Left large colon displacement, 82 Leiomyosarcoma, 467 Lens, subluxated, 542 Lens rupture acute corneal and anterior lens capsule perforations in Thoroughbred gelding, 542 inflamed eye of adult Percheron mare with penetrating corneal injury one month previous to presentation, 543 treatment of. 543 Lethal white syndrome, 289-290 autosomal recessive condition resulting from breeding two overo-paint horses, 289 foal with, 625 gastrointestinal tract of white foal, 290 postmortem photograph of 4-day-old foal presenting for colic with. 290 Leucocoria, white, mature cataract and, 540 Leukoencephalomalacia (Moldy Corn Disease), 224-225 clinical signs and therapy for, 224 postmortem examination of brain in horse affected with, 224 Leydig cells cryptorchidism and, 448 disruption of spermatogenesis due to cryptorchidism and, 449 tumors of, 451 Lice (pediculosis), 291-292 causes and diagnosis of, 291 diagnosis by identification of eggs attached to hair shafts, 292 Ligament injuries, in foals, 646-649 Lighting program, transitional mares and, 469 Limb edema, in horse affected with purpura hemorrhagica, 169 Lingual laceration or ulceration chronic, due to sharp enamel points on lingual aspects of mandibular cheek teeth, 33 of systemic origin, 34 in 13-year-old Thoroughbred gelding, 31 Lipoma, 64, 66 with long stalk, strangling loop(s) of small intestines, 65, 68 serving as point where intestines rotated, 68 Live mount, semen collection and, 453 Lockjaw. See Tetanus (lockjaw) "Lollipop" lesions, 358 Long digital extensor tendon, avulsion fracture of origin of, in foal, 644 Long-stalk lipoma, 65, 68 Long umbilical cord, as cause of abortion, 502-503 Longus muscles, poll impact and damage to, 215 Luminal epithelium, 480 Lymphatic lacunae or cyst (endometrial cysts), 471-472 appearance of, 471 large, 472 mapping, pathogenesis and treatment of, 471 recognition of pregnancy affected by, 472 Lymph nodes, retropharyngeal, enlarged in horse with strangles, 183

Lymphocytic-plasmocytic enterocolitis, *101* Lymphosarcoma, 452

Μ

Male fetus, transrectal scan of, 485 Male pseudohemaphrodites, 473 Male reproductive system diseases. See Reproductive system diseases, male Malevolent lesions, sarcoids and, 304 mal seco. 109 Mammary gland enlargement of, prior to abortion, 501 impending foaling and filling of, 486 Mandible, dental tumor of, 442-443 Mandibular dental structures normal, in an immature horse, 435 normal, in mature horse, 435 Mandibular incisors, severe atypical wear of, 37 Mandibular osteomyelitis, 443 Mandibular prognathism, foal with, 660 Manic behavior, leukoencephalomalacia (Moldy Corn Disease) and. 224 Mare immunopregnancy test, 477 Mares maceration of advanced age fetus in, 500 poor vulvar conformation in, 474 pyometra in, 470 retained placenta in, 504 routine monitoring of early pregnancy and, 463 transitional, 469 Masseter muscle atrophy, in 2-year-old quarter horse stallion, 346 Masturbation, hemosemen and, 449 Mature cataract, 540-541 Maxilla, deviation of, 26 Maxillary dental structures, normal, in aged horse, 432 Maxillary sinuses, anatomy of, 428 Meckel's diverticulum, 61 Meconium balls of, ultrasonographic image of, surrounded by mineral oil in large colon, 623 foal passing, 622 foal straining to pass, showing arched back and tail position, 622 impaction, 622-623 retention and diagnosis of. 622 ultrasonographic image of, highlighting "speckled" appearance of, 623 Megaesophagus esophageal distension near thoracic inlet in foal with, 615 postmortem photograph of, in foal secondary to esophageal obstruction, 44 postmortem specimen of esophagus from foal, 615 Melanoma, 293-294 in Arab mare. 468 older grey horses with, 293 other regions of, in old grey mare, 294 in parotid region of aged grey mare, 293 perianal, 293 Melting corneal ulcer, 532 Membranous ventricular septal defect, murmurs associated with, 120

Meninaitis causes of. 253 cloudy, xanthochromic, cerebrospinal fluid collected from lumbosacral space of septicemic foal with, 593 recumbent adult horse affected with, 253 Mesenteric tear, as cause of dystocia, 483 Mesenteric torsion, 62 partial, postmortem photograph of, in adult horse, 62-63 peritoneal fluid from horse affected with, 63 Mesodiverticular band, small loop of small intestine strangulated by, 61 Mesorchium, testicular torsion and, 460 Metacarpal periostitis, nuclear scintigraphic image and dorsolateral-palmaromedial obligue radiographic projection of left metacarpal region of 2-year-old Standardbred, 403 Metacarpophalangeal and metatarsophalangeal joints (fetlock joint), 378-391 chronic proliferative synovitis of, 381-382 fracture (chip) of dorsoproximal first phalanx, 389 fracture of proximal first phalanx, 388 fracture of proximal sesamoid bone, 385-387 fracture of third metacarpus, 389 mild osteoarthritis of, 379-380 moderate osteoarthritis of, 379 osseous fragment arising from plantar margin of first phalanx, 391 osseous fragmentation of lateral plantar process of first phalanx, 390 osteoarthritis of, 378-382 osteochondritis dissecans and, 382 septic arthritis and osteomyelitis of, 384 sesamoiditis and, 383 severe osteoarthritis of, 380-381 Metatarsophalangeal joint, normal, in foal, 630 Methylprednisolone, nodular necrobiosis (eosinophilic collagen necrosis) treatment with, 295 Microsporum equinum, dermatophytosis (ringworm) and, 281 Midbody sesamoid fractures, prognosis for, 386 Middle carple joint, moderate osteoarthritis of, 393 Midsagittal fracture of third phalanx (type 3 fracture), 368 Milk electrolyte assays, scoring, impending foaling and, 486 Miller, M. A., pituitary pars intermedia dysfunction and grading system developed by, 515 Miniature horses congenital patellar luxation in foals, 643 tracheal collapse in, 189 Miosis, with granuloma and periocular calcification, 531 MIP test. See Mare immunopregnancy test Mitral regurgitation atrial fibrillation secondary to, 142 mitral valve insufficiency and, 139 Mitral valve insufficiency, 139-142 color flow Doppler image from right parasternal long axis view showing small eccentric jet of mitral regurgitation, 139 severe, color flow Doppler image from right parasternal long axis view showing large jet of mitral regurgitation, 139 Mitral valve regurgitation, jet lesion, postmortem image of localized areas of subendocardial fibrosis in left atrium

secondary to jet of, 142

Mixed sarcoid lesions. 304 Moldy corn, Fusarium moniliforme infection of, 225 Moldy Corn Disease, 224-225 Monkey mouth (underbite), 15 Monocystic granulosa cell tumor, 467 Mount mare, semen collection and, 453 Mouth, diseases of, 37-39 glossitis, 38-39 oral foreign body, 38 squamous cell carcinoma, 37 Mullerian system, remnants of, breeding accidents and, 464 Multifocal vasculitis, 326 Multisystemic eosinophilic epitheliotropic disease, 101 Mummification, fetal death followed by, 500 Murmurs, with aortic valve insufficiency, 145 Muscle atrophy masseter muscle, in 2-year-old quarter horse stallion, 346 Streptococcus equi infection-associated myopathies and, 345 Muscle injuries, in foals, 646-649 Muscles, diseases of, 343-350 hyperkalemic periodic paralysis, 344-345 muscle atrophy (masseter muscle), 346 myopathies associated with Streptococcus equi infection. 345 polysaccharide storage myopathy, 347-349 recurrent exertional rhabdomyolysis, 350 sporadic exertional rhabdomyolysis, 346 Muscle wasting, Cushing's syndrome and, 274 Muscular ventricular septal defect, 120, 121 Muzzle papillomas, 330 Myocardial diseases, 134-138 cardiomyopathy, 134-136 cor pulmonale, 138 myocarditis, 137-138 Myocarditis, 137-138 in adult horse, postmortem photograph of heart with ventricular dysrhythmia, 137 Holter recording from horse with, 138 signs of, 138 Myocardium, rib fracture and fatal puncture of, 645 Myopathies, Streptococcus equi infection-associated, 345

Ν

Nasal cavity, fluid opacity throughout, 429 Nasal discharge, with primary choke, 40 Nasogastric tube, passing, 53 Nasopharyngeal region, hypoxic ichemic encephalopathy and lack of tone in. 583 Natural breeding, vaginal examination and, 464 Natural service, for semen collection, 453 Navicular bone, 356-362 cysts of description of, 358 enlarged and abnormally shaped synovial invaginations, and enthesopathy, 358-359 degenerative change in, 360-361, 361 dorsoproximal-palmarodistal oblique radiographic projections of, for two horses, 356, 358 fracture of, 361 lateral and solar views from bone phase of scintigraphic study of 7-year-old quarter horse, 362

normal radiographic appearance of, 356-357, 357, 360 palmaroproximal-palmarodistal obligue radiographic projections of, in two horses, 357 Navicular degeneration, evidence of, 358 NCC. See Noncoronary cusp Necrotizing enterocolitis hemorrhagic diarrhea due to, 585 postmortem specimen from foal with, 585 sonogram of foal's abdomen showing small intestinal loops with pneumatosis intestinalis in conjunction with, 586 Neonatal hypothyroidism, 522 Neonatal hypothyroidism and goiter, 659 clinical signs and diagnosis of, 659 Neonatal isoerythrolysis, 600-602 clinical signs, diagnosis, and treatment of, 600 foal with characteristic pale jaundiced mucous membranes due to, 600 jaundiced sclera in foal with, 601 marked jaundice throughout body and, 602 pigmenturia from foal with severe acute hemolysis, 601 Neonatal maladjustment syndrome, 581 Neonates, diseases of, 579-660 alimentary system, 613-626 alloimmune thrombocytopenia, 658 congenital hypothyroidism and dysmaturity syndrome, 660 hypoxic ischemic syndrome, 581-586 integument system, 656-658 lavender foal syndrome, 659 musculoskeletal system, 630-649 neonatal hypothyroidism and goiter, 659 neonatal isoerythrolysis, 600-602 nervous system, 626-627 ocular system, 628-629 prematurity, 596-600 respiratory system, 602-612 sepsis, 587-595 urinary system, 650-655 Neoplasia, 132-133, 451-452 granulosa cell tumors, 466-468 leiomyosarcoma, 467 lymphosarcoma, 452 melanoma, 468 monocystic granulosa cell tumors, 467 precancerous lesions, 451 seminoma, 451 squamous cell carcinoma, 468 squamous cell carcinoma on penis of horse, 452 Neoplasm, granuloma vs., 554 Nephrolithiasis, 571 postmortem photograph of renal calculus in horse with, 575 weight loss in horse with, 576 Nephroliths, 575 Nephrosplenic entrapment of large colon, 83 Nervous system, diseases of, 211-253 brain abscess, 212-214 cholesterol granuloma (cholesteatomas), 244 equine herpes virus myeloencephalitis, 229-233 equine motor neuron disease. 237-239 equine protozoal myeloencephalitis, 234-235 equine wobbler syndrome, 236-237 facial nerve trauma. 252 head trauma, 214-222

hepatoencephalopathy, 223-224 Horner's syndrome, 245 lead poisoning, 243-244 leukoencephalomalacia (Moldy Corn Disease), 224-225 meningitis, 253 otitis media-interna (temporohyoid osteoarthropathy), 246-251 rabies, 239 radial nerve paralysis, 251 stringhalt, 240 tetanus (lockjaw), 240-242 verminous meningoencephalomyelitis, 228-229 West Nile Virus, 225-227 Neurological deficits, guttural pouch diseases and, 182 NI. See Neonatal isoerythrolysis Nitrate concentrations in diet, congenital hypothyroidism and dysmaturity syndrome due to, 660 Nodular lesions, sarcoids and, 304 Nodular necrobiosis (eosinophilic collagen necrosis), 294-295 low-grade discomfort to horse "under-saddle," 295 slight melanotrichosis in chestnut horse, 294 Nonarticular fracture of wing of third phalanx, 366-367 Noncoronary cusp, echocardiographic image of ventricular septal defect and, 122 Nonepitheliotropic lymphosarcoma, clinical signs of, 277 Nongastrointestinal colic, causes of, 46 Noninfectious pulmonary diseases, 190-195 exercise-induced pulmonary hemorrhage, 192-195 inflammatory airway disease, 191 recurrent airway obstruction (RAO, heaves), 190-191 Nonsteroidal anti-inflammatory drugs toxicity, 95-98 adult horse with oral ulcers affected by, 96 adult horse with weight loss and ventral edema caused by, 95 brisket edema in adult horse with, 97 clinical signs and diagnosis of, 95 postmortem examination of adult horse with severe necrotic right dorsal colon affected by, 96 prepuptial edema in horse with, 97 ultrasonographic image showing thickened wall of right dorsal colon in adult horse affected with, 98 NSAID toxicity. See Nonsteroidal anti-inflammatory drugs toxicitv NSELC. See Nephrosplenic entrapment of large colon Nutritional hyperparathyroidism, 525 Nutritional secondary hyperparathyroidism postmortem photograph of one side of mandible from horse with 526 sagittal section of long bone from horse with, 526 0 Occipital condyles, poll impact and fracture of, 219 Occipital cortex dysfunction, poll impact and, 215 Occult lesions, sarcoids and, 304 OCD. See Osteochondritis dissecans Ocular trauma, blunt, corneal laceration and, 531 Omental hernia, in foal, 109 Omphalophlebitis, with urachal abscessation in septicemic foal, 594 Onchocerca cervicalis, 295

Onchocerciasis, 295–296 lesions associated with, 295

patchy alopecia, crusting, and depigmentation of ventral midline, 296 Optic nerve degeneration, secondary to previous head trauma that induced optic nerve damage and blindness, 555 Optic nerve dysfunction in foal, resulting from frontal/parietal impact, 220 head trauma and, 218 Oral foreign body, 38 Oral ulcers, chronic renal failure and, 564 Orbital neoplasms, prognosis for, 553 Ossification of accessory cartilages of third phalanx (sidebone), 371 of accessory cartilages of third phalanx (sidebone), causes of, 371 grade 1, of carpal bones in foal, 633 grade 2, of carpal bones in foal, 634, 636 incomplete, of cuboidal bones due to congenital hypothyroidism and dysmaturity syndrome, 660 Osteoarthritis, 392-394, 410-412 of distal interphalangeal joint, 364-365 of left distal interphalangeal joint of 10-year-old Thoroughbred, 365 mild of distal intertarsal and tarsometatarsal joint, 410 of metacarpophalangeal joint in 4-year-old Standardbred, 378-379 mild, of antebrachiocarpal joint, 392 moderate of distal intertarsal joint, 410 of metacarpophalangeal joint, of 6-year-old Standardbred, 379 of middle carpal joint, 393 of proximal interphalangeal joint (high ringbone) in 13-yearold Appaloosa, 363 severe of carpometacarpal joint, 394 of distal intertarsal joint, 411 of metacarpophalangeal joint of 2-year-old Standardbred, 380-381 of proximal intertarsal joiont, distal intertarsal joint, and tarsometatarsal joint, 411 of stifle joint, 417 chronic cranial cruciate ligament injury and, 418 Osteochondritis dissecans. 407-409 bilateral, of lateral trochlear ridge, lateral radiographic projections of left and right stifles of 1.5-year-old Standardbred, 416-417 of distal intermediate ridge of tibia, 407 of lateral trochlear ridge of talus, 408 of medial malleolus of tibia, dorsolateral-plantaromedial oblique projection, 409 of medial malleolus of tibia, dorsoplantar radiographic projection, 408 of medial trochlear ridge of talus, 409 of median sagittal ridge of third metatarsal bone, 382 Osteochondrosis. 391 lesions, 401 subchondral bone cysts and, 372

Osteodystrophia fibrosa, 525

Osteoma, 181

Osteomvelitis of fourth metatarsal bone, 414 fracture of fourth metacarpal bone with evidence of, 407 hematogenous spread of bacterial infection as cause of, 426 mandibular, 443 septic arthritis and, in foals, 639 of third cervical vertebra, 426-427 of third phalanx causes of, 369 in 9-year-old Hunter, 369 Osteophytes, 378, 379 moderate osteoarthritis of middle carple joint and formation of. 393 Otitis media-interna (temporohyoid osteoarthropathy), 246-251 clinical signs and diagnosis of, 246 computed tomography in horse affected with, 250 endoscopic view of guttural pouch in horse affected by, showing thickened stylohyoid bone, 248 head tilt in horse affected with, 246 keratitis and severe endophthalmis in horse affected with, 247 postmortem examination of stylohyoid bones in horse affected with, 250-251 ptosis in horse affected with. 247 transtympanic lavage in horse affected with, 249 unilateral facial paralysis in horse affected with, 246 ventrodorsal skull radiograph of horse affected with, 248 Ovarian suppression, granulosa cell tumors and, 466 Ovary, transitional, from a mare, 469 Overbite (parrot mouth), 13-14 Overlong tooth 109, in 4-year-old horse, 27 Overlong tooth 309, due to fractured tooth 209, 28 Overo-overo mating, intestinal aganglionosis (lethal white syndrome) and, 625 Over-paint horses, lethal white syndrome resulting from breeding of, 289 Ovulating follicle, 462 Ρ PA. See Pulmonary artery "Paint-brush" tufts, dermatophilosis (rain scald) and, 280 Pampiniform plexus, systemic body temperature increases, disruption of spermatogenesis due to cryptorchidism and, 449 Pancreas, normal boundaries of epiploic foramen and, 71

- Pansystolic band shaped murmur, phonocardiogram from horse with, 120
- Papillomas (wart), photomicrograph of papilloma showing squamous epithelium, stratum corneum, and connective tissue stalk, 332
- Paralytic rabies, 239
- Paramastoid processes, poll impact and fracture of, 219 Paranasal sinuses, *427*
- fluid opacity throughout, 429
- Parascaris equorum
- impaction with, 60
- intestinal rupture due to ileal obstruction with, 620
- Parietal (Richter's) hernia, enterocutaneous fistula in horse as sequela to, 108

Parietal vaginal tunic, scrotal hernia and, 458

- Paroxysmal ventricular tachycardia, 160
- Parrot mouth (overbite), 13-14, 614

large amount of excessive crown at mesial portion of 106 in 10-year-old guarter horse stallion, 7 rostral hook and, 6 Pastern dermatitis, 311-313 Patella chronic fracture of, 419 lateral luxation of, in 4-week-old Standardbred foal, 643 Patellar luxation, congenital, in miniature horse foals, 643 Patent urachus, in debilitated recumbent neonates, 652 Pawing, colic and, 46, 48 PE. See Pericardial effusion Pedunculated lipoma intraoperative photograph of small intestinal strangulation caused by, 65 postmortem photographs of, 64-65 Pemphigus, 297-301 types and signs of, 297 Pemphigus foliaceus, 297 alopecia on inside of proximal hind limb and inguinal region in horse with, 298 characteristic round acantholytic cells on histological section, 301 close-up of flank region in horse with, 297 early, transient blister formation with, 300 face lesions with. 299 hind limb lesions with, 300 histological section showing separation of epidermis, 301 horse of unknown age with alopecia and oozing due to, 297 in horse with lesions on face, coronary bands, and ventrum, 299 left upper forelimb of quarter horse with alopecia, crusting, and secondary excoriation, 298 Penile prolapse, grass sickness and, 115 Penis kicking injuries to, 453, 454 paralysis and amputation of, 456 squamous cell carcinomas on, 451 suspensory choices for injuries to, 455 Perforated corneal ulcer, with iridal prolapse, 534 Pergolide administration, pituitary pars intermedia dysfunction treatment and, 513 Pericardial catheter, placement of, 131 Pericardial diseases. 129-133 neoplasia, 132-133 pericarditis, 129-132 Pericardial effusion. 129 cardiac tamponade with, 129 electrocardiograms obtained prior to and immediately after drainage of large amount of, 130 large, ultrasonographic image of ascites and pleural effusion in pony with, 132 M-mode echocardiographic image demonstrating small amount of, 130 Pericardial mesothelioma clinical signs of, 132 echocardiographic images of right parasternal long axis, 132 right parasternal short axis view of ventricles, 133 postmortem examination showing parietal pleura, parietal pericardium and mediastinum covered with coalescing cobblestone nodules, 133

Pericardiocentesis, 131

Pericarditis, 129-132 constrictive, postmortem photograph from 3-year-old colt with, showing thickened pericardium peeled back off epicardium, 131 fibrinoeffusive, two-dimensional echocardiographic image from horse with large pericardial effusion and fibrin on epicardial surface, 129 physical examination findings and diagnosis of, 129 Perineal tears and lacerations surgical repair of, 495 third-degree, 494 Periocular calcification, granuloma and, 531 Periocular papillomatosis, 330 Periodontal disease chronic incisor, with cemental hypoplasia, 19 feed trapped at lingual aspect of interproximal space, 17 in 2-year-old Thoroughbred, 15 Periodontal pocket, 16 packed feed visible in both views, lingual and buccal aspects, 17 Periostitis at origin of suspensory ligament, 406 stress fractures and, 404 Periovarian adhesions, 476 Peripapillary butterfly lesion, 556 Peripartum asphyxia syndrome, 581 Peritoneal fluid, from horse affected with mesenteric torsion, 63 Peritonitis, 105-107 adult horse affected with, 105 causes and clinical signs of, 105 diffuse, microscopic examination of smear made from peritoneal fluid of horse with, secondary to intestinal rupture, 106 ultrasonographic image of abdomen in horse affected with, showing cellular fluid and fibrin tag, 107 ultrasonographic image of abdomen in horse affected with, showing thickened small intestine, surrounded by cellular fluid, 107 Persistent dorsal displacement of the soft palate, 186 Peruvian Paso mare, with supernumerary and displaced incisors, 13 Petechiae alloimmune thrombocytopenia in foal with, 658 in ear of septicemic foal, 591 in nasal mucosa of horse affected with purpura hemorrhagica, 170 Petrous temporal bone, hemorrhage into inner/middle ear from fractures of. 217 Phacoclastic uveitis, clinical diagnosis and prognosis for, 543 Phaeohyphomycosis causes, clinical signs, diagnosis, and treatment of, 323 nodular granulomatous dermatitis in horse with, 323 photomicrograph of, showing pigment-producing yeast organisms, 323 Phalanges, 363-378 articular fracture of wing of third phalanx, 367-368 assessment of third phalanx rotation. 377-378 chronic laminitis, 376-377 complete fracture of first phalanx, 374-375 fracture of extensor of third phalanx, 365-366 fracture of palmar process of third phalanx, 369

keratoma, 370 laminitis with rotation and laminar separation, 375-376 nonarticular fracture of wing of third phalanx, 366-367 ossification of accessory cartilages of third phalanx, 371 osteoarthritis of distal interphalangeal joint, 364-365 osteoarthritis of proximal interphalangeal joint, 363 osteomyelitis of third phalanx, 369 sagittal fracture of third phalanx, 368 subchondral cystic lesions of, 373-374 distomedial first phalanx, 372 proximomedial second phalanx, 373 Phallectomy, 452 Phantom mare, semen collection and, 453 Pharangeal region, lateral radiographic projections of, 440 Pharyngeal anatomy, normal, and guttural pouches, 438 Pharyngeal compression, fluid within guttural pouches and, 438 Pharyngeal diseases dorsal displacement of the soft palate, 186 pharyngitis, 186 Pharyngitis, grade 4/4 pharyngeal lymphoid hyperplasia in 2-year-old racehorse, 186 Phenothiazine tranquilizers, penile paralysis and, 456 Pheochromocytoma, postmortem photograph of, in adrenal medulla of horse, 527 Phialophora, phaeohyphomycosis and, 323 Photoactive dermatitis, 327 Photodermatitis, hepatoencephalopathy and, 223 Photosensitization, 301-303 classification of, 301 head of mature guarter horse exhibiting signs of, 302 lateral and medial aspects of left front leg in horse with, 303 Phthisis bulbi, choroid detachment and, 549 Physeal closure, normal metatarsophalangeal joint and, 630 Physeal dysplasia (physitis) of distal physis of radius in foal, 633 of distal physis of third metacarpus and proximal physis of proximal phalanx in foal, 632 Physitis, causes of, 632 Pinky syndrome (Arabian fading syndrome), 328 Pituitary pars intermedia dysfunction, 508-515 beginning of classical clinical signs in, 509 bulging of supraorbital fossa in horse with, 511 grading system by M. Miller et al. for, 515 hirsutism and, 508, 509, 510, 512, 513 horse with, responding to oral pergolide therapy, 513 inappropriate lactation in horse with, 512 lack of muscle tone and poor top line conformation characteristic of. 510 pituitary gland, cut lengthwise showing thickening of pars intermedia, 514 pituitary gland cut lengthwise, 515 pony with classic clinical signs of, 508 pony with cresty neck and, 509 postmortem photograph of brain and extremely enlarged pituitary gland in horse with, 513 postmortem photograph of enlarged pituitary gland in situ on bottom of cranial vault. 514 severe chronic laminitis in pony with, 511 Placenta, retained, 504 Placental insufficiency, prematurity and, 596 Placental separation, premature, and prolapse of bladder, 486

Placentation, variations in twin pregnancies, *499* Placentitis, prematurity and, *596*

Pleura, diseases of, 203-204

Pleural fluid, drainage from indwelling chest tube, 199 Pleuropneumonia

acute

intercostal transverse ultrasonographic image of ventral midthorax of racehorse with, 197

lateral radiograph of cranioventral thorax of racehorse with, 197

racehorse with, after long-distance transportation, 196 gross examination of chest cavity in horse with, 201 lateral thoracic radiograph of horse with, 198

photomicrograph of pleural fluid showing degenerate white blood cells and mixed bacteria in racehorse with, 198

- risk factors, diagnosis and treatment of, 196
- severe pyogranulomatous pleuritis and pyothorax in horse with, 200

severe pyrogranulomatous pericarditis in horse with, 200 Pneumonia

acute, lateral radiographic projection of thoracic activity in 9-day-old Standardbred, 603

chronic, lateral radiographic projection of caudodorsal lung fields in 7-month-old Standardbred, 604

clinical signs, diagnosis and treatment of, 612

foal recovering from HIS and, in sternal support with intranasal oxygen insufflation, 612

foal with nostril flaring due to, 612

interstitial, sonogram of thorax showing "sheets" of comet tail artifacts seen with, 607

Pneumothorax

Heimlich valve attached to indwelling chest tube to allow drainage of pleural fluid while preventing development of, 199

lateral thoracic radiograph of horse with, secondary to pneumonia, 203

pleural exudate draining from chest of horse injured in trailer accident resulting in pleuritis and, 204

Polanski speculum, failure to demonstrate cervical tears and, 476

Poll impact

adult horse affected with, showing wide-base stance, 219

adult horse with head trauma due to, showing head tilt and facial asymmetry, 216

adult horse with recumbency caused by head trauma due to, 217

adult horse with recumbency caused by head trauma due to, showing bloody discharge from ear, 217

head trauma and, 214, 215, 216, 217

types of muscular and cranial nerve damage due to, 215

Polydontia, 5-year-old draft mare with, 35

Polyps, sinonasal, 181

Polysaccharide storage myopathy, 347-349

adult horse affected with, 347

breeds affected by and diagnosis of, 347

periodic acid-Schiff stained slides for glycogen of muscles from normal horse and horse affected with, 349

semitendinosus/semimembranous muscle biopsy obtained from horse affected with, 347–348

Porphyria, 301

Portal vein, normal boundaries of epiploic foramen and, 71 PPID. See Pituitary pars intermedia dysfunction

Precancerous lesions, 451 Pregnancy early, routine monitoring of, 463 endometrial cyst affecting recognition of, 472 Prematurity, 487, 596-600 causes, clinical signs and management of, 596 flexural laxity and, 648 foal with curly soft ears, 597 foal with slipper foot, 598 head of premature foal showing classic signs of, 597 incomplete ossification of cuboidal bones in hock and carpus, 599 lateral radiograph of carpus of premature foal showing incomplete ossification of carpal bones with some cuboidal bones showing degree of ossification, 599 marked paradoxical respiration in premature foal, 600 placing hoof up to wither's level highlights increased tendon and periarticular laxity, 598 small size, domed head, and periarticular laxity in foal, 596 Preovulatory follicle, ultrasound image of, 462 Prepuptial edema, in adult horse, nonsteroidal antiinflammatory drugs toxicity and, 97 Pressure sores, 270-272 lack of bedding and, 272 Priapism, 456 Primary choke anatomical areas for occurrence of, 40 causes of, 40 Primary hyperparathyroidism, 523-525 causes of, 524 close-up of horse with, revealing increased bone growth in skull, 524 side view of horse with, showing fibrous osteodystrophy of skull, 523 side view of skull of horse with, 525 Primary (idiopathic) glaucoma corneal striae, aphakic crescent, and mild buphthalmia in quarter horse, 537 diagnosis of, 538 ocular trauma vs., 538 Primary photosensitization, 301 Progressive ethmoid hematoma, endoscopy of caudal nasal passage revealing red, smooth, glistening hematoma protruding from ethmoid region, 178 Proliferative bone at articular facets of C 5-6. 424 Proliferative enteropathy (Lawsonia intracellularis), 76-77 foal with chemosis developed secondary to severe hypoproteinemia, 77 foal with diarrhea and rectal prolapse, 77 foal with intermandibular edema, 76 postmortem photograph of intestine of foal affected with, 77 Proximal interphalangeal joint (high ringbone), osteoarthritis of, 363 Proximal intertarsal joint, severe osteoarthritis of, 411 Proximal sesamoid bone apical fracture of. 385 fracture of, 385-387 Proximal tibia, Salter-Harris type 2 fracture of, in 4-week-old Standardbred foal. 642

PSSM. See Polysaccharide storage myopathy

Psychogenic polydipsia horse with, 560 predisposing factors for and management of, 560 PTH secreting tumor, primary hyperparathyroidism and, 524 Ptosis Horner's syndrome and, 245 in horse affected by otitis media-interna (temporohyoid osteoarthropathy), 247 in horse with grass sickness, 114 Ptyalism, gastric ulcers and, 56 P type (physeal) of infectious polyarthritis in older foals, 640 in 4-week-old Standardbred foal. 640 Pulmonary abscessation, 604-605 lateral radiographic projections of caudodorsal lung fields of 4-month-old Standardbred, 604-605 perihilar lymph node enlargement and, 605 Pulmonary artery poststenotic dilatation of, 124 radiographic image of radiopaque electrical cardioversion catheter in. 157 Pulsion diverticulum, 45 Purkinje cells, rabies and brown-staining Negris bodies in, 239 Purpura hemorrhagica, 168-173 adult horse with, 168 clinical signs and treatment for, 168 ecchymoses in oral mucosa in horse affected with, 170 ecchymoses in vulvar mucosa in mare affected with, 171 ecchymotic hemorrhage on muzzle of horse affected with, 171 edema of head in horse affected with, 169 limb edema in horse affected with, 169 petechiae in nasal mucosa in horse affected with, 170 serum exudation and limb edema in horse affected with, 172 skin crusting in horse affected with, 172 skin sloughing in horse affected with, 173 strangles and, 204 Streptococcus equi-associated, 326 Pururitis, pemphigus foliaceus and, 299 Pyelonephritis, 567-568 depressed horse with, 567 postmortem photograph of kidney and ureters from horse affected with ureteritis and. 568 Pyogranulomatous pericarditis, in horse with pleuropneumonia, 200 Pvometra, 470, 500 causes and treatment of, 470 endoscopy and ultrasonography of, 470 mare with, discharging pus from vulva, 470 Q QRS complexes atrial tachycardia during trotting exercise, telemetric recording from horse with atrial tachycardia and second degree AV block, 153

atrial tachycardia with second degree AV block at rest, 153 in ECG from horse with atrial fibrillation, secondary to mitral requrcitation and left atrial enlargement, 154

in electrocardiogram from horse with aortic valve insufficiency, 146

in Holter recording from horse with myocarditis, 138 multiform ventricular tachycardia, 160

normal, atrial fibrillation secondary to mitral regurgitation and left atrial enlargement, 142 normal resting sinus rhythm, 150 supraventricular arrhythmias and, 152 sustained unifocal ventricular tachycardia, 159 third degree (complete), base apex recording from neonatal foal with septic myocarditis, 152 Type I second degree atrioventricular (AV) block, 151 ventricular premature depolarization, 158 QRS waves, in ECG from horse with atrial endocarditis, 149 Quinidine administration, idiosyncratic and toxic reactions with, 156 Quinidine gluconate, atrial fibrillation treatment and, 154 Quinidine sulfate treatment atrial fibrillation treatment and, 154 horse fitted with telemetry during, 156 R Rabies clinical signs and diagnosis of, 239

histological examination with immunoperoxidase stain of cerebellum of animal affected with, 239 Racehorses, atrial fibrillation and, 155 Radial carpal bone, fracture of distal margin of, 396 Radial cysts, 401 Radial facet, third carpal bone with mild sclerosis of, 395 Radial nerve paralysis, foal with dropped elbow and flexion of all distal limb joints due to, 251 Rain scald, 279-281 Ramps, 9 RAO. See Recurrent airway obstruction RCC. See Right coronary cusp RCT. See Ruptured chorda tendinea RDLC. See Right displacement of left large colon Rectal prolapse, 492 Rectal tears and lacerations, 494 Rectovaginal fistula, 495 Rectus capitis muscles, poll impact and damage to, 215 Recurrent airway obstruction, 190-191 accumulation of mucopurulent respiratory secretions in trachea of horse with, 190 nostril flaring during, 190 Recurrent exertional rhabdomyolysis breeds affected by and diagnosis of, 350 hematoxylin and eosin stained slides of muscles obtained from normal horse and horse affected with. 350 "Red foot," junctional epidermolysis bullosa and, 340 Renal failure acute, hematuria in horse affected with, 561 acute, horse with severe depression and, 560 causes and clinical signs of, 560 chronic, 563-567 weight loss in horse affected with, 563 Renal function, altered, edema formation giving ventral abdomen of foal a wrinkled appearance, 586 Reproductive system diseases female, 462-504 aging of fetus, 464 aneuploidy and intersex, 473 ascending placentitis, 501

clitoral anatomy and sampling of clitoral sinuses, 465

cervical tears. 476

coital exanthema, 475 early and late gestation fetal sexing, 484-485 early and later embryonic death, 496 embryonic death and abortion due to twinning, 497-499 endometrial biopsy, 479-480 enlargement of mammary gland prior to abortion, 501 fetal death followed by anestrus, 477 fetal death followed by mummification, 500 general approaches and forms of dystocia, 481-483 granulosa cell tumors, 466-468 hydrops allantois, 490 intra-abdominal hemorrhage, 493 long umbilical cord as cause of abortion, 502-503 lymphatic lacunae or cyst, 471-472 nature of equine placentation, 504 normal contusion of vagina, 491 periovarian adhesions, 476 poor vulvar conformation, 474 premature placental separation and prolapse of bladder, 486 prematurity, 487 pyometra, 470 rectal, vaginal, and perineal tears and lacerations, 494-495 rectal prolapse, 492 routine culture and cytology to investigate infertility, 478 routine diagnostics of estrous cycle, 462 routine monitoring of early pregnancy, 463 severe vaginal contusions and pelvic subluxation, 492 stillbirth or abortion close to term, 501 transitional state, 469 transluminal adhesions, 471 uterine hemorrhage, 493 uterine rupture, 489 vaginal examination, 464 ventral abdominal rupture, 488 ventral edema in late gestation, 488 vulvar injuries, 475 male, 447-461 cryptorchidism, 447-449 hemosemen, 449-450 kicking injuries, 453-455 neoplasia, 451-452 penile paralysis and amputation, 456 scrotal hernias, 457-460 smeama accumulation "beans" in fossa glandis. 461 testicular hypoplasia, 455 testicular torsion and hydrocele, 460-461 RER. See Recurrent exertional rhabdomyolysis Reserpine Holter monitor recording of horse receiving, 151 side effects with, 151 Respiratory distress, hyperkalemic periodic paralysis and, 345 Respiratory obstruction, hypoxic ischemic encephalopathy and, 583 Respiratory system, diseases of, 175-209 African horse sickness, 208-209 diseases of extrathoracic airways. 176-189 diseases of intrathoracic airways, 190-203 diseases of thoracic wall and pleura, 203-204 strangles, 204-207 Retained deciduous teeth "cap," 23

Retained placenta, treatment of, 504 Reticulated leukotrichia characteristics of and breeds affected by, 258 in young quarter horse, 258, 259 Retina degeneration of, 555 tapetal fundus of, lipofuscinlike pigment in, equine motor neuron disease and, 238 thin, 556 Rhinitis sicca, grass sickness and, 113 Rhodococcus equi, 606-610 clinical signs associated with intestinal form of infection with, 609 foal infected with, causing osteomyelitis of extensor process of third phalanx and inguinal abscess, 610 intestinal form of, 609 large encapsulated abscesses throughout lung parenchyma due to, 606 large intra-abdominal abscess due to suppurative inflammation of mesenteric lymph node caused by infection with, 610 lateral thoracic radiograph of foal with, 607 pulmonary abscessation in foals infected with, 605 purulent material being removed from abscessed precapsular lymph node, 608 rotavirus diarrhea and, 621 severe keratouveitis due to immune complex deposition associated with, 608 sonogram of thorax showing discrete superficial abscesses in lung parenchyma, 606 sonogram of thorax showing "sheets" of comet tail artifacts, seen with interstitial pneumonia, 607 stifle effusion associated with immune complex deposition in synovial structures associated with infection by, 608 Rhodococcus equi pneumonia, clinical signs, diagnosis, and treatment of, 606 Rib fracture fatal puncture of myocardium as result of, 645 ultrasonographic appearance of, 645 Right coronary cusp, echocardiographic image of ventricular septal defect and, 122 Right displacement of left large colon, 82 pelvic flexure in right side of abdomen lateral to cecum, 83 postmortem photograph of horse with, 82 Rocky Mountain horses, thin retina in, 556 Rolling colic and, 46, 51-52 treatment for left dorsal displacement of large colon with, 84-85 Rostral hook, 6-7 Rostral maxillary sinuses, 427 fluid within. 428 Rostral sinuses, fluid lines in, 430 Rotavirus diarrhea clinical signs, diagnosis and treatment of, 621 foal with, 621 Rubbing, hair loss and damage over croup and tail due to, 289 Ruptured bladders, ultrasonographic examination of ventral part of caudal abdomen of two foals with, 651 Ruptured chorda tendinea postmortem photograph of, 140

postmortem photograph showing splitting of atrial epicardium secondary to, and acute mitral valve regurgitation, 140 sonographic image of pulmonary edema in horse with congestive heart failure and, 141 Ruptured common digital extensor tendon diagnosis and treatment of, *646* in foal, 646 Ruptured gastrocnemius muscle/tendon, in foal, 646

S

Sabulous urolithiasis, postmortem photograph of bladder affected with, 577 Salivary cyst, as cause of dystocia, 482 Salmonella typhimurium, salmonellosis and, 88 Salmonellosis, 88-91 acute, postmortem photograph showing severe enterocolitis in horse affected with, 89 dark red and tacky gum, plus endotoxemia in horse affected with, 91 horse with watery diarrhea affected with, 88 inflamed large colon and, 89-90 rotavirus diarrhea and, 621 severe dehydration and skin tenting in horse affected with, 91 small intestines affected with, 90 Salter-Harris type 2 fracture of distal metacarpus in foal, 642 of proximal tibia in foal, 642 Sarcocystis neurona, equine protozoal myeloencephalitis and, 234 Sarcoidosis, 306-307 clinical signs of, 306 mature horse with generalized scaling and alopecia due to, 306 progression of clinical signs in horse with, 307 Sarcoids, 304-306 classification, diagnosis and treatment of, 304 fibroblastic, in dorsolateral aspect of left front fetlock, 305 fibroelastic, on upper lip, 306 flat, with alopecia at base of mane, 304 mature horse with, 304 nodular, dorsal and caudal to commissure of lip in mature horse, 305 treatment for, 553 of upper eyelid, 553 "Sawhorse" stance, tetanus (lockiaw) and, 240 Scalding, 307-311 chemical, 309-310 serum. 307-309 urine, 311 SCC. See Squamous cell carcinoma Sclera, jaundiced in foal with neonatal isoerythrolysis, 601 Scleral hemorrhage, foal with, 629 Scratches (greasy heel, pastern dermatitis), 311-313 description of, 311 in horse with deep horizontal fissures in midpastern region and beginning of photoactive dermatitis, 312 photoactive dermatitis and, 327 photoactive vasculitis originating from pastern dermatitis, 313 photosensitization and. 301 yearling horse with, 311, 312

Scrotal hernia, 457-460 anatomy of, 458 castration and, 460 congenital surgery for, 459 30-day-old foal with severe right-sided scrotal hernia, 459 in foal, showing preputial swelling, 625 ultrasonography of, 458 Scrotum, equine, average size of, 455 Secondary choke, 45-46 esophageal diverticulae and, 45 postmortem photograph of vascular ring anomalies in foal, 46 Secondary glaucoma, 539 aphakic crescent, cataract, and posterior synechiae in ageing polo pony, 539 peripheral corneal edema, miosis, and corneal stromal vascularization in middle-aged horse, 539 treatment of, 539 Secondary hyperparathyroidism, 525-526 clinical signs and causes of, 525 horse's head with distorted facial bones due to replacement with fibrous connective tissue, 525 postmortem photograph of one side of mandible from horse with. 526 Secondary photosensitization, 301 Second metacarpal bone, splint exostosis of, 406 Second phalanx, subchondral cystic lesion of, 373 Seizures focal, hypoxic ischemic encephalopathy, tonic muzzle contractions and, 583 grand mal, with extensor rigidity and opisthotonos in foal with hypoxic ischemic encephalopathy, 584 Selenium deficiency, white muscle disease in foal and, 649 Self-excoriation, epidermal damage as result of, 288 Semen collection, safe, 453 Seminoma, 451 Sepsis, 587-595 bilateral decubital ulcers associated with olecranon region in septicemic foal, 593 clinical signs, diagnosis and treatment of, 587 coronitis in foal with, 590 early, hyperemic mucous membranes seen in foal with, 588 embolic nephritis and, 588 embolic pneumonia and, 587 foal standing under mare and not nursing as early sign of, 587 foal with enterocolitis and, 592 hemorrhagic gingival margins in foal with, 589 iriditis and anterior uveitis in newborn foal with, 590 localized, soft fluctuant subcutaneous swellings due to subcutaneous abscess formation in foal with, 592 longitudinal ultrasonographic image of lateral aspect of elbow of neonatal septicemic foal, 595 petechiae in ear of foal with, 591 ultrasonographic image of ventral abdomen of foal with omphalophlebitis with urachal abscessation, 594 Septic arthritis in foals, 639 osteomyelitis with, of lateral proximal sesamoid bone, 384 type T, lateral radiograph of tarsus of neonatal septicemic foal with, 594

Septicemia multifocal vasculitis and. 326 in neonatal foal due to Actinobacillus equuli manifested as uveitis and hypopyon, 591 Septic jugular vein thrombophlebitis, tricuspid valve insufficiency and, 146 Septic shock, muddy purple discolored mucous membranes in foal with, 589 Septic thrombophlebitis of jugular vein, 161 complications and treatment of, 161 multiocculated, cavitated thrombus in jugular vein consistent with. 162 Sequestration of the calcaneus, 413 Sequestrum formation, on dorsal cortex of third metatarsal bone, 415 SER. See Sporadic exertional rhabdomyolysis Sertoli cells disruption of spermatogenesis due to cryptorchidism and, 449 tumors of. 451 Serum scalding alopecia along drainage pathway in case of proximal hindlimb wound, 309 healing from, alopecia shown along drainage pathway, 308 horse after treatment for, 308 signs of, 307 in 10-year-old mare, 307 Sesamoiditis classification of, 383 type 2 of medial proximal sesamoid bone, 383 type 3 of medial proximal sesamoid bone, 383 Sesamoid osteomyelitis, guarded prognosis for, 384 Setaria spp., verminous meningoencephalomyelitis and, 228 "Shaker foal," botulism and, 627 Shear mouth. 9 Shetland ponies, tracheal collapse in, 189 Shirodkar-like suture, cervical tears and, 476 Shoe boil, 270-272 Shoe-boil roll, in case of cubital bursitis, 270 Simulium spp., insect bite hypersensitivity and, 288 Sinonasal neoplasia and polyps, 181 clinical signs of, 181 Sinus cyst, 180-181, 429-430 deformation of face over right maxillary region in horse with. 180 fluid within rostral and caudal maxillary sinuses, 430-431 skull radiograph revealing rounded, well-demarcated opacity indicative of, 181 Sinusitis, 179-180, 426-427 chronic deformation of face over left maxillary region in horse with, 179 unilateral purulent nasal discharge in horse with, 179 clinical signs of, 428 lateral skull radiograph showing parallel fluid-air interfaces in frontal and maxillary sinuses in horse with, 180 Sinus rhythm, normal, resting, 150 Sinus tachycardia, during exercise, 150 Skeletal growth, acquired flexural contracture related to, 647 Skeletal malformation, severe, as cause of dystocia, 482

Skin disorders, in foals, 656-658. See also Integumentary system, diseases of Skin sloughing, in horse affected with purpura hermorrhagica, 173 Skin tenting, hyperelastosis cutis (Ehler Danlos syndrome) and, 287 Skull anatomy of, 427 primary hyperparathyroidism and fibrous osteodystrophy of, 523 primary hyperparathyroidism and increased bone growth in, 524 Slab fracture defined. 399 of third carpal bone, 399-400 of third carpal bone, sagittal, 400 Slipper foot, premature foal with, 598 Small colon, diseases of, 99-102 antibiotic induced colitis, 102 idiopathic inflammatory bowel disease, 101 intraluminal obstruction of small colon with enteroliths, fecaliths, or foreign bodies, 100 small colon impaction, 99 Small colon impaction, postmortem photographs of horse with, 99 Small intestinal volvulus (mesenteric torsion), 62 Small intestines diseases of. 59-77 functional obstruction of, 75-77 simple obstruction of, 59-61 strangulating obstruction of, 62-75 epiploic foramen entrapment of, 69-71 intussusception of, 74 postmortem photograph of incarceration of, through gastrosplenic ligament, 73 simple obstruction of, 59-61 Small intestine strangulation, diaphragmatic hernia and, 72 Small muscular ventricular septal defects, 121 Smegma accumulation of "beans" in fossa glandis, 461 precancerous lesions and, 451 clitoral. 465 "Smooth" tear, geriatric wear and, 21 Soft tissue swelling, of carpus, 392 Sow mouth (underbite), 15 "Spavin," 410-412 Speculum examination, failure to demonstrate cervical tears and. 476 Spermatogenesis, cryptorchidism and suppression of, 448, 449 Sphenoid bone, fracture of, 441-422 Spinal canal, malalignment of spinal canal at C 3-4 and compression of at C 3-4, 423 Spinal cord, subtle compression of, at C 5-6, 424-425 Spindle cell carcinoma, invasion of left eye orbit by, 553 Spine, 422-427 articular facet reaction, 424-425 cervical vertebral malformation instability. 425-426 misalignment and compression of spinal canal, 423 normal cervical spine, 422 osteomyelitis of third cervical vertebra, 426-427 Splint exostosis, of second metacarpal bone, 406

Splinting, for ruptured gastrocnemius muscle, 646 Sporadic exertional rhabdomyolysis, myoblobinuria in horse affected with. 346 Sporothrix schenckii excised fungal granuloma due to, 315 photomicrograph of in infected nodule showing multinucleated giant cells, 315 in infected nodule showing yeastlike organisms following fine needle aspiration, 315 sporotrichosis caused by, 313 Sporotrichosis, 313-315 diagnosis of, 314 excised fungal granuloma due to Sporothrix schenckii, 315 horse with cutaneolymphatic form of, 313 photomicrograph of Sporothrix schenckii in infected nodule showing multinucleated giant cells, 315 photomicrograph of Sporothrix schenckii in infected nodule showing yeastlike organisms following needle aspiration, 315 Squamous cell carcinoma, 37, 181, 316-317 bilateral, epiphora in horse presenting for, in nictating membranes, 317 on penis of horse, 451, 452 preputial and penile, in mature horse, 316 signs of, 316 treatment for, 468 SR-y gene, aneuploidy and, 473 Stallions kicking injury to penis of, 453 masturbation, hemosemen and, 449 semen collection and injury to, 453 testicular descent in, 447 testicular hypoplasia in, 455 Standardbreds, osseous fragments in large proportion of, 391 Step mouth, 8 "Stepped tooth," 8, 28 Stifle and tibia, 416-421 calcinosis circumscripta, 420 cranial cruciate ligament injury, 418 fracture of patella, 419 osteoarthritis of stifle joint, 417 osteochondritis dissecans, 416-417 subchondral bone cyst, 416 tibial stress fracture, 421 Stifle effusion, in foals infected with Rhodococcus equi, 608 Stifle ioint normal, in 8-day-old Thoroughbred, 631 osteoarthritis of, 417 Stillbirth, close to term, 502 Stomach, diseases of, 53-59 gastric dilatation, 53-54 gastric impaction, 54-55 gastric ulcers, 56-59 Strangles, 182, 204-207 causes and clinical signs of, 204 choke and signs of dysphagia in adult horse, 206 emergency temporary tracheostomy needed for horses with, 206 endoscopy of nasopharynx of horse with, showing purulent discharge draining from guttural pouch openings, 183 enlarged lymph node compressing esophagus and causing choke in adult horse, 206

enlarged lymph nodes compressing pharynx and impeding respiration, 206 enlarged retropharyngeal lymph nodes in horse affected with, 183, 205 enlarged submandibular lymph nodes in foal with, 205 enlarged submandibular lymph nodes in horse with, 204 healed tracheostomy site in horse recovering from, 207 mucupurulent nasal discharge in horses with, originating from ruptured abscessed retropharyngeal lymph nodes in medial compartment of guttural pouch, 207 Strangulating obstruction, of small intestine, 62-75 Stratum compactum, 480 Stratum spongiosum, 480 Streptococcal infection, endoscopic view of guttural pouch empyema secondary to, 182 Streptococcus equi infection brain abscess and, 212 myopathies associated with, 345, 345 purpura hemorrhagica associated with, 168, 326 Streptococcus zooepidemicus, 478 brain abscess and, 212 pyometra and, 470 Stress fracture, of third metacarpus, 404 Stretching, colic and, 46, 49 Stringhalt adult horse affected with, showing hyperflexion of hock joint, 240 clinical signs of, 240 Strongylosis, 92 postmortem photograph of cecum of horse with, showing cyathostomiasis, 93 postmortem photograph of horse with, showing presence of firbrous tags on spleen, 92 postmortem photograph of small intestine of horse with, showing heamomalasma ilii, 92 Strongylus edentatus, 92 Strongylus equinuus, 92 Strongylus vulgaris, 92 verminous meningoencephalomyelitis and, 228 Stud crud (idiopathic cannon keratosis) description of, 318 scaling and crusting with, 318 Stylohyoid bone, unilateral thickening of, otitis media-interna (temporohyoid osteoarthropathy) and, 248 S type infectious polyarthritis, in foal, 639 Subchondral bone. lvsis of. 396 Subchondral bone cyst, of medial condyle, 416 Subchondral cystic lesion of first phalanx. 372 of phalanx, 373-374 of second phalanx, dorsoplantar horizontal beam radiographic projection of right rear foot of 2-year-old Standardbred, 373 Subchondral sclerosis, 380 Subcutaneous bursa, of elbow region, inflammation of, 270 Subepiglottic cyst treatment of, 187 in 4-vear-old racehorse, 187 Subluxated lens, aphakic crescent, cataract, in middle-aged polo pony, 542 Sucking louse, 291 Suckle reflex, hypoxic ischemic encephalopathy and loss of, 582

Summer solstice, twinning rate in mares and, 497 Sunblock, 318 Sunburn, differential diagnoses for, 318 Sun damage, squamous cell carcinoma and, 316 Superior check ligament, enchondroma and enthesiophyte formation at attachment of, 402 Supernumerary canine tooth, in aged horse, 35 Supernumerary incisor, 13 Suppurative endometritis, severe, 480 Supraventricular arrhythmias, 152-153 Suspensory ligament avulsion fracture at origin of, nuclear scintagraphic images of. 405 periostitis at origin of, 406 "Swiss cheese septum," muscular ventricular septal defects and. 121 Synovial invaginations, enlarged and abnormally shaped, 358

Т

Talus comminuted fracture of. 412-413 osteochondritis dissecans of medial trochlear ridge of, 409 Tarsal bone ossification, grading system for, in foals, 633 Tarsal valgus angular limb deformity of, in 5-week-old guarter horse foal, 637 causes and evaluation of, 637 Tarsometatarsal joint mild osteoarthritis of, 410 severe osteoarthritis of, 411 Tarsus, normal, in 8-day-old Thoroughbred foal, 630-631 Tarsus and metatarsus, 407-415 fracture and osteomyelitis of fourth metartarsal bone, 414 fracture of fourth metatarsal bone, 414 fracture of talus, 412-413 osteoarthritis, 410-412 osteochondritis dissecans, 407-409 sequestration of calcaneus, 413 sequestrum formation on third metartarsal bone, 415 Tarsus varus, foal with, clinical photograph, 638 Taylorella equigenitalis contagious equine metritis and, 461 sampling of clitoral sinuses, 465 Teeth, diseases of, 5-37 abnormal tooth wear, 36-37 asynchronous teeth eruption. 27 caudal hooks or ramps, 7 deviation of maxilla, 26 diagonal incisor malocculsion, 11 dysplastic teeth, 36 fractured tooth, 27-31 geriatric wear, 21 gingival and lingual ulceration of systemic origin, 34 hooks or ramps, 9 incisor curvature. 11-12 irregular incisor malocclusion, 12 lingual and buccal laceration and bit pressure (injury), 31-34 overbite (parrot mouth), 13-14 overlong distal portion of third incisor, 10 periodontal disease, diastema, enamel and cemental decay, 15 - 20polydontia, 35

rostral hood. 6-7 shear mouth, 9 step mouth, 8 stepped tooth, 8 supernumerary canine tooth, 35 supernumerary incisor, 13 teeth eruption and retained deciduous teeth "cap," 22-24 underbite (sow or monkey mouth), 15 wave malocclusion, 5-6 wolf teeth, 24-25 Teeth eruption retained 803 in 5 and 1/2 year-old, 22 in 3-year-old patient, 22 Telogen defluxion, 319-320 description of, 319 hair coat of horse treated for, 320 head of old gelding with, 319 huge areas of hair loss in old gelding with, 319 Temporal muscle atrophy, in 2-year-old guarter horse stallion, 346 Temporal teratoma, 320-322 description of, 320 large draining mass at base of left ear in mature Thoroughbred mare, 320 surgical removal of, 321-322 Temporohyoid osteoarthropathy, 246-251 Tendon injuries, in foals, 646-649 Testicles cryptorchid, image illustrating testicular echo and its homogeneity, 448 of male pseudohemaphrodites, 473 normal and cryptorchid, 448 seminoma on, 451 Testicular descent, species comparison between horses and cattle, 447 Testicular hypoplasia, 455 Testicular torsion congenital, in 4-year-old paint stallion, 461 hydrocele and, 460-461 Testosterone disruption of spermatogenesis due to cryptorchidism and, 449 granulosa cell tumors and, 466 Tetanus (lockjaw), 240-242 adult horses affected with showing profuse frothy salivation. 242 showing prolapsed third eyelid, 241 showing stiff posture of horse with head and neck extended. 240 showing trismus, 241 clinical signs of, 240 recumbent adult horse unresponsive to treatment, and subsequent death of, 242 Tetralogy of Fallot right parasternal short axis image of horse with, 128 in 3-year-old Thoroughbred gelding, 128 Tetraparesis, equine protozoal myeloencephalitis and, 234 Tetraplagia, equine herpes virus 1 (EHV-1) myeloencephalitis and, 230 Thin retina, 556 Third carpal bone fracture of, 398-400

fracture of proximal dorsomedial margin of, 398 with mild sclerosis of radial facet, 395 normal. 395 sclerosis of radial and intermediate facets of. 396 Third cervical vertebra, osteomyelitis of, 426-427 Third eyelid prolapsed, hyperkalemic periodic paralysis and, 344 prolapsed, tetanus (lockjaw) and, 241 Third eyelid squamous cell carcinoma, salmon pink friable third eyelid mass and, 552 Third incisor, overlong distal portion of, 10 Third metacarpus lateral condylar fracture of, 389 stress fracture of, nuclear scintigraphic images of, 404 Third metatarsal bone, sequestrum formation on, 415 Third phalanx articular fracture of wing of, 367-368 fracture of extensor process of, 365-366 fracture of palmar process of, 369 nonarticular fracture of wing of, 366-367 ossification of accessory cartilages of, 371 osteomyelitis of, 369 sagittal fracture of, in 10-year-old Morgan, 368 Third phalanx rotation, two methods for assessment of. 377-378 Thoracic wall, diseases of, 203-204 Thorax normal, lateral radiographic projection of thoracic cavity in 12-year-old Clydesdale, 602 radiography of, 602-603 Thoroughbred gelding, 4-year-old, retained tooth 802 in, and extraction of same tooth, 23 Throat latch region, marked distension of, in foal with guttural pouch tympany, 184 Thrombophlebitis, 161-164 acute, horse with venous distension of head and neck secondary to, 162 septic, sonogram of, 161 Thrombosis, 161-164 bilateral jugular, edema of head and tongue of horse affected with, 163 multiocculated, cavitated, in jugular vein consistent with septic thrombophlebitis, 162 at previous catheter site with no sign of infection, 161 Thyroid adenoma, 518-522 postoperative picture of horse after removal of. 520 surgical removal of, 520 ultrasound image of, 519 unilateral enlargement of thyroid gland due to, 519 Thyroid gland brachial cysts attached to, found on postmortem examination, 522 enlarged, 518 close-up of, 518 left and right lobes of, removed at postmortem, 521 with two adenomas after surgical removal, 521 Tibia osteochondritis dissecans of distal intermediate ridge of. 407 osteochondritis dissecans of medial malleolus of, 408 Tibial stress fracture, 421 Tick infestation, 324-325

multiple hard-bodied ticks, 324

number of ticks easily appreciated with use of tick comb, 325 severe, in mature horse, 324 Toe scuffing, equine wobbler syndrome and, 236 Tongue, foal's, candidiasis on, 613 Tongue control, hypoxic ischemic encephalopathy and loss of, 582 Tongue paralysis, lead poisoning and, 243 Tongue seal, good, in foal, 582 Tongue tone, botulism and loss of, 627 Tooth roots, 434, 435 abscesses of clinical findings on, 437 of left first maxillary molar, 436 of left third mandibular premolar, 437 Tooth wear, abnormal, 36-37 Toxicity, nonsteroidal anti-inflammatory drugs, 95-98 Tracheal collapse, 189 endoscopic view of, in miniature foal with complaint of respiratory stridor and exercise intolerance, 189 lateral cervical and thoracic radiograph of miniature foal with, at level of thoracic inlet, 189 Traction diverticulum, 45 Training at fast speeds, metacarpal periostitis and, 403 Transition, 469 Transitional ovary, ultrasonographic image from mare, 469 Transluminal adhesions, 471 evaluation of, 471 preventing, 471 purulent discharge seen on floor behind mare, 471 Transtympanic lavage, otitis media-interna (temporohyoid osteoarthropathy) diagnosis and, 249 Trauma, hemosemen and, 449 Triadan numbering system, for equine dentition, 5 Trichophyton equinum var equi, dermatophytosis (ringworm) and, 281 Tricuspid valve, postmortem photograph of horse with massive proliferative lesions on three cusps of, 147 Tricuspid valve insufficiency, 146-147 bacterial endocarditis and, 146 M-mode echocardiographic image from horse with, showing marked thickening of tricuspid valve leaflets, 147 Trismus, 241 Trophoblast, 463 Truncus arteriosus, 126-127 cause of, 127 characteristics of. 126 cyanotic mucous membranes in foal with, 127 in neonatal foal, 126 postmortem photograph of, 127 right parasternal right ventricular outflow tract view, 126 Trusses, penile injuries and use of, 455 T type (tarsal) of infectious polyarthritis, in 4-week-old quarter horse foal, 641 Tuber calcani, normal tarsus and ossification of, 630 Tubular speculum, failure to demonstrate cervical tears and, 476 "Tucked up" appearance, grass sickness and, 109, 110 Tumoral calcinosis, 272-273, 420 Turner's-like syndrome, 473 T waves, normal resting sinus rhythm, 150 Twinning, embryonic death and abortion due to, 497-499 Twin pregnancies

poor management of and related consequences, 499

proper management of, early pregnancy, *463* variations in placentation in, 499

Twin preovulatory follicles, as seen on ultrasound, 497

Twin reduction, with use of transvaginal ultrasound guided aspiration, 498

- Type III hypersensitivity reaction, immune-mediated vasculitis and, 326
- Typhlocolitis, postmortem photograph of large colon of horse affected with, caused by cyathostomes, 93–94

U

Ulceration, of oral mucosa caused by sharp enamel point on distal aspect of 211 as it occludes with 311, 33 Ulcerative dermatitis crusting and erythema around anus and vulva, 657 description of, 656 epithelial loss in ear due to, 657 in foals, 656 Ulcers, decubital, in foals, 656 Ulnar carpal bone cyst, 401 Ultrasonography, tracking estrous cycle and, 462 Umbilical cord long, as cause of abortion, 502-503 variation in normal length of, 503 yolk sac remnants on, 503 Umbilical hematoma, cause of, 655 Umbilical hernia, in foal, 108 Umbilical remnant infections, 653-654 with purulent caseous material in umbilical arteries and apex of bladder, 653 sonogram of caudal part of ventral abdomen of foal, caudal to external umbilical remnant, 653 treatment of, 653 Umbilical swellings, external, in foal, 654 Umbilical vein, infected, ultrasonographic image of, in foal, 654 Underbite (sow or monkey mouth), 15 Urachus bullous dilations of, long umbilical cord as cause of abortion and, 502 rupture of, in foal, and treatment of, 652 Urethra, endoscopic image of, in horse with urethrolithiasis, 571 Urethral rent or defect, endoscopic image of urethra in horse affected with, 570 Urethrolith, removal of, by urethrotomy in male donkey, 574 Urethrolithiasis, 571 abdominal distension in male donkey affected with urinary bladder rupture secondary to, 572 postmortem photograph of urethra with, showing rupture in penis, 574 urethral rupture in horse secondary to, 573 Urinary incontinence, equine herpes virus 1 (EHV-1) myeloencephalitis and, 230 Urinary system diseases, 559-577 acute renal failure, 560-562 chronic renal failure, 563-567 cvstitis. 568 psychogenic polydipsia, 560 pyelonephritis, 567-568 urethral rent or defect, 570 urolithiasis, 571-577 verminous nephritis, 569

Urinary tract disruption foal straining to urinate, shown with dorsoflexion of back and tail position, 650 postmortem image of foal with rupture in dorsal wall of bladder and concurrent peritonitis, 650 Urine scalding alopecia, erythema, and crusting in mare due to, 311 equine herpes virus 1 (EHV-1) myeloencephalitis and, 230 Urolithiasis, 571 clinical signs and diagnosis of, 571 horse affected with, showing frequent posturing to urinate and extension of penis, 571 Urticaria. 325-326 conventional, in Thoroughbred, 326 drug eruption in horse after vaccination and severe dependent chest edema, 334, 335 factors related to, 325 multifocal wheals on mature Thoroughbred, 325 Urticarial type of lesion, cutaneous lymphosarcoma and, 278 Uterine hemorrhage, ultrasonographic appearance of, 493 Uterine rupture, 489 Uterine torsion, nonsurgical correction of, 487 Uterine wall, characteristic thickening of, early pregnancy, 463 Uterus, pyometra and physical drainage of, 470 Uveal cyst, 551 Uveitis, 543-545 acute, leptospirosis and, 547 chronic, 547 chronic, keratitis and, 548 clinical diagnosis and treatment for, 544 corneal edema, dorsal corneal stromal vascularization, hypopyon, and yellow exudates extending over miotic pupil in horse with, 543 corneal foreign body, misosis and subtle ventral hypopyon with, 544 corneal stromal abscess and secondary anterior uveitis in 2-year-old quarter horse mare, 545 equine recurrent, 546 intravitreous hemorrhage and, 545 perforated corneal abscess with septic endophthalmitis and phthisis bulbi, 544

V

Vaccinations, cutaneous drug reactions (drug eruption) after, 334, 335 Vaginal contusions normal, 491 severe, and pelvic subluxation, 492 Vaginal examination, 464 Vaginal tears and lacerations, 494 Valvular insufficiency, consequences of, 139 Varicose veins, mass of, in everted portion of cranial vagina of aged mare, 464 Vascular diseases, 161-173 aortic root disease, 164-168 purpura hemorrhagica, 168-173 thrombosis and thrombophlebitis, 161-164 Vascular ring anomalies, in foal, postmortem photograph of, 46 Vasculitis, 326-327 purpura hemorrhagica in which forelimbs were severely affected. 327 Venipuncture, jugular vein thrombophlebitis secondary to, 161 Ventral abdominal rupture, 488

Ventral abdominal wall tear, in 18-hour-old foal, 649 Ventral edema, in late gestation, 488 Ventral incisor curvature, in aged horse, 12 Ventral septal defect, 120-125 Ventricular arrhythmias, 158-160 in horses with aortic insufficiency, 146 Ventricular bigeminy, Holter recording, 159 Ventricular premature depolarization, 158 Ventricular septal defects color flow Doppler image of, showing turbulent flow through septal defect, 123 continuous wave Doppler image of flow through, 123 echocardiographic image of, from right parasternal short axis view of aorta, 122 membranous echocardiographic image of, 122 echocardiographic image of 2-year-old Thoroughbred gelding with history of poor racing performance, 120 large, echocardiographic image of Welsh pony with, 124 large, postmortem image of, 125 outflow, color flow Doppler image of, 121 radiographic image of pulmonary edema in pony with heart failure due to, 125 tetralogy of Fallot and. 128 Ventricular tachycardia multiform, Holter recording, 160 paroxysmal, 160 sustained unifocal, 159 Verminous arteritis, postmortem photograph of, 167 Verminous meningoencephalomyelitis, 228-229 adult horse affected by, showing clinical signs of, 228 ataxia and limb weakness in horse affected with, 229 clinical signs of, 228 head-pressing in horse with, 228 Verminous nephritis, 569 Verrucous (warty) lesions, sarcoids and, 304 Vestibular cortex dysfunction, poll impact and, 215 Vet-wrap, penis wrapped in, after kicking injury, 454 Viral diarrhea, rotavirus and, 621 Viral skin diseases, 330 Visceral vaginal tunic, scrotal hernia and, 458 Vitamin D toxicity, 523 Vitamin E deficiency, white muscle disease in foal and, 649 Vitiligo acquired, of unknown origin in mature guarter horse, 329 periocular depigmentation in young paint horse, 329 VPD. See Ventricular premature depolarization VSD. See Ventricular septal defects Vulva injuries to, 475 poor conformation of, 474 ulcerative dermatitis with crusting and erythema around, 657

W

Warts (papillomatosis), 330–332
congenital, on heel bulb of quarter horse foal, clipped prior to surgical removal, 332
congenital, on tongue of neonatal quarter horse foal before and after surgical removal, 331
Wave malocclusion, 5–6
involving 200 and 300 arcades in middle-aged patient, 5 300 "wave" abnormality, 6

Weanlings, chronic gastric ulceration in, 56, 56 Weight loss chronic renal failure and, 563 Cushing's syndrome and, 274 grass sickness and, 109, 110 nephrolithiasis and, 576 peritonitis and, 105 severe abdominal abscessation and, 103 abdominal adhesions and, 104 in horse affected with idiopathic inflammatory bowel disease, 101 Welsh ponies, ventricular septal defects in, 124 West Nile Virus, 225-227 adult horses affected with, 226 depression and, 226 droopy lips and, 227 twitching and, 227 wide-base stance and, 225 clinical signs of, 225 Wheals, with urticaria, 325 White corneal plaques, with granuloma and periocular calcification, 531 White foal, with abnormalities in ileum, caecum, and colons, 290 "White lacing," 258 White muscle disease clinical signs of, 649 recumbent foal affected with, 649 "Wind sucking" poor vulvar conformation and, 474 vulvar injuries and, 475 Winter atopy causes of, 333 early lesion in mature horse with, 333 horse with healed lesion and remaining alopecic region, 333 Withers skin, burns and protection of from trauma when horse rolls, 266 WNV. See West Nile Virus Wobbler's syndrome, 424, 425-426 Wolf teeth, 24-25 atypical palatal location of, in a yearling, 25 fragments, 25 very large, in 2-year-old Thoroughbred, 24 Wrvneck. 482 Wry nose, 176-178 description of, 176 foal born with. 176 malocclusion of incisors in foal with, 614 radiograph of maxilla of foal after surgical correction, 177-178 radiograph of maxilla of foal with, 177 in 2-year-old Thoroughbred, 26

Х

XX karyotypes, aneuploidy and, 473

Υ

Yearling, class 2 malocclusion ("parrot mouth" or "overbite") in, 14 Yolk sac remnants on umbilical cord, 503