
THE DIGESTIVE SYSTEM

ANIMAL AROMATHERAPY SPECIALIST CERTIFICATION LEVEL 2 TRAINING

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THE DIGESTIVE SYSTEM SYSTEM - AGENDA



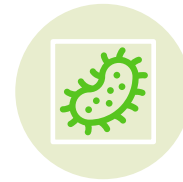
INTRODUCTION



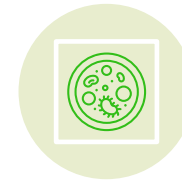
DEFINITIONS
SYMPTOMS
INFO TO OBTAIN



DENTAL DISEASE |
MOUTH



BACTERIAL DISEASES



PROTOZOA &
PARASITES



DISEASES OF THE
STOMACH AND
INTESTINES



DISEASES OF THE
RECTUM | ANUS



PANCREAS



LIVER



QUESTIONS?

THE DIGESTIVE SYSTEM - INTRODUCTION

- Consists of oral cavity and associated organs (lips, teeth, tongue, salivary glands), esophagus, forestomachs in ruminants (reticulum, rumen, omasum) and true stomach in all species, the small intestine, liver & gallbladder, pancreas, large intestine, rectum & anus.
- Also includes GALT - Gut Associated Lymphoid Tissue (tonsils, Peyer's patches, diffuse lymphoid tissue)
- Functions
 - Prehension of food and water, mastication, salivation and swallowing food, absorbing nutrients, maintaining fluid and electrolyte balance, evacuation of waste products
 - Motility
 - Secretion
 - Digestion
 - Absorption
 - Blood flow
 - Metabolism

DIGESTIVE SYSTEM – DEFINITIONS

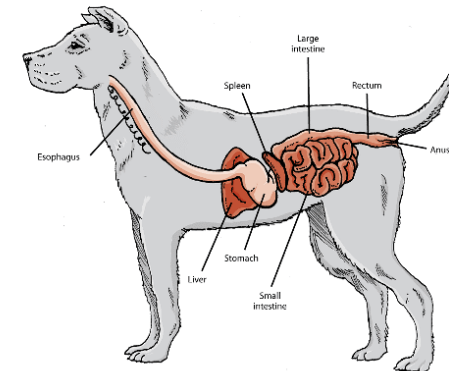
- Peristalsis: muscle activity that moves ingesta from the esophagus through the digestive system and to the rectum
- Segmentation movements – churn and mix the ingesta
- Segmental Resistance and Sphincter tone – slow unwanted progression of gut contents/ voluntary control of elimination
- Vomiting – neural reflex that ejects food and fluid from the stomach through the oral cavity
 - Nausea, salivation, shivering, abdominal muscle contraction
- Regurgitation – passive reflux of previously swallowed material
- Malabsorption (Malassimilation in Large animals) – failure of absorption of nutrients
 - Viruses, inflammatory diseases, neoplasia like lymphosarcoma

SYMPTOMS POINTING TO DIGESTIVE SYSTEM INVOLVEMENT

- Anorexia | inappetence
- Excessive salivation
- Regurgitation
- Vomiting
- Diarrhea
- Constipation
- Blood or excess mucus in stool
- Abdominal pain or distention
- Dehydration
- Decreased performance
- Dry skin | coat
- Excessive gas
- Looking at stomach
- Horses: pawing, laying down and getting up frequently, kicking at stomach, stretching out, grinding teeth, worried look
- Scooting
- Pica
- Weight loss
- Dry Heaving
- Other symptoms like fever, panting, general discomfort, lethargy, etc.

INFORMATION HELPFUL TO OBTAIN WITH THE DIGESTIVE SYSTEM

- Complete history including
 - Current medications and supplements
 - Appetite
 - Diet (any recent changes?)
 - Changes in body weight
 - Previous illness or injury
 - Defecation frequency and amount
 - Appearance of stool or manure | Smell
 - Changes in behavior
- Physical Exam | Observations
 - Stress in the home?
 - Recent changes?
- Rectal Exam (Veterinarians only)
- Veterinary Testing
 - Bloodwork
 - Fecal
 - Radiographs and/ or Ultrasound
 - Etc.



DENTAL DISEASES

- Signs of Dental Disease: Broken teeth, unthriftiness, loss of condition, difficulty or slow eating, reluctance to drink cold water, food falling out of the mouth, bad odor from mouth
- Periodontal disease: inflammation and/or infection of the tissues that support the teeth. More severe than gingivitis which is inflammation of the gingiva and very common.
- Treatment involves veterinary dentistry under sedation or anesthesia preferably with x-rays in small animals.
- Prevention is key – tooth brushing (with brush or gauze sponge), texture in diet, toys, treats can be self-cleaning.
- Oils to use: Antibacterial, Antifungal, Antimicrobial oils, wound healing oils – Clove, Peppermint, Thyme, Oregano, Cinnamon, Myrrh, Ylang-ylang, Spearmint, Orange. Anti-inflammatory oils like Frankincense and Copaiba
- *For additional information, please watch the webinar in the membership portal on Oral Health – teeth and mouth

	Tooth	Horse	Cow	Sheep and Goat	Pig	Dog	Cat
	Di1	0–1 wk	Before birth	0–1 wk	3–4 wk	4–5 wk	2–3 wk
	Di2	4–6 wk	Before birth	1–2 wk	2–3 mo	4–5 wk	3–4 wk
	Di3	6–9 mo	0–1 wk	2–3 wk	Before birth	3–4 wk	3–4 wk
	I1	2½ yr	2 yr	1–1½ yr	12–15 mo	4 mo	4–7 mo
	I2	3½ yr	2½ yr	1½–2 yr	16–20 mo	4½ mo	4–7 mo
	I3	4½ yr	3½ yr	2–2½ yr ^b	8–10 mo	5 mo	4–7 mo
	Dc	Does not erupt	0–2 wk	3–4 wk	Before birth	3–4 wk	3–4 wk
	C	4–5 yr	3½–4 yr	2½–4 yr ^c	6–10 mo	5–6 mo	4–7 mo
	Dp2	0–2 wk	0–3 wk	0–4 wk	4–6 wk	4–6 wk	5–6 wk (upper only)
	Dp3	0–2 wk	0–3 wk	0–4 wk	1½ mo	4–6 wk	5–6 wk
	Dp4	0–2 wk	0–3 wk	0–4 wk	1–5 wk	4–6 wk	5–6 wk
	P1	5–6 mo (wolf tooth)	—	—	5 mo	4–5 mo	—
	P2	2½ yr	2–2½ yr	1½–2 yr	12–15 mo	5–6 mo	4–7 mo (upper only)
	P3	3 yr	2–2½ yr	1½–2 yr	12–15 mo	5–6 mo	4–7 mo
	P4	4 yr	2½–3 yr	1½–2 yr	12–15 mo	5–6 mo	4–7 mo
	M1	9–12 mo	5–6 mo	3–6 mo ^d	4–6 mo	4–5 mo	4–7 mo
	M2	2 yr	1–1½ yr	9–12 mo	8–12 mo	5–6 mo	—
	M3	4 yr	2–2½ yr	1½–2 yr	18–20 mo	6–7 mo	—

DISEASES OF THE MOUTH

■ Large Animals

- Lip Lacerations
- Abscesses
- Tongue paralysis
- Neoplasia
- Clover toxicity (slobbers)
- Stomatitis
- Ulcerations
- Trauma

■ Small Animals

- Oral Ulcers
- Abscesses
- Stomatitis
- Lip Fold dermatitis
- Inflammation of the tongue
- Trauma
- Papilloma
- Neoplasia (Melanoma, SCC, Fibrosarcoma)
- Hypersalivation (toxin exposure, inflammation, foreign bodies, diseases, nausea or motion sickness, medication application, etc.)

COMMON PATHOGENS OF THE DIGESTIVE SYSTEM

	Cattle Sheep Goats	Horses	Dogs Cats	Pigs
Viruses	BVD, Rotavirus, coronavirus	Rotavirus, Stomatitis	Parvovirus, Panleukopenia, Coronavirus, rotaviruses	Circovirus, EDV, rotavirus, stomatitis, Transmissible gastroenteritis
Rickettsia		Potomac horse fever	Salmon poisoning	
Bacteria	E. coli, Salmonella, Mycobacterium, Fusobacterium, Clostridium, Actinobacillus, Yersinia, Campylobacter	E.coli, Salmonella, Rhodococcus, Actinobacillus, Clostridium	Salmonella, Yersinia, Campylobacter, Bacillus, Clostridium, Mycobacterium, Shigella	E.coli, Salmonella, Clostridium, Lawsonia
Protozoa	Eimeria, Cryptosporidium	Eimeria	Isospora, Giardia, Cryptosporidium, many others	Eimeria, Isospora
Fungi	Candida	Aspergillus	Candida, Aspergillus, Histoplasma	Candida

BACTERIAL DISEASES

- Campylobacter
 - Symptoms: Pain, fever, diarrhea, frank blood in feces, etc
- Salmonellosis
 - Symptoms: Fever, diarrhea, often multiple animals affected, often concurrent diseases, conjunctivitis (cats), abdominal pain
- Tyzzer's Disease (Clostridium)
 - Symptoms: depression, anorexia, fever, diarrhea, seizures, jaundice

Oils to use: Symptomatic – Antispasmodics for pain: Roman Chamomile, Peppermint, Petitgrain, Fennel, Ylang Ylang, Basil, Aniseed – topical application

Appetite stimulating oils if needed: Ginger, Orange, Aniseed – aromatic application

Antibacterial oils – Thyme, Orange, Rosemary, Clove, Oregano – Internal application or topical

*advise on maintaining hygiene and hydration

PROTOZOA

- Coccidiosis
 - Inflammation, diarrhea, bloody diarrhea, dehydration
- Cryptosporidiosis
 - Persistent diarrhea, lethargy, anorexia, dehydration
- Giardiasis
 - Weight loss, chronic diarrhea, may be intermittent, usually no blood in feces
- Oils effective against Protozoa: Clove, Cinnamon, Eucalyptus, Peppermint, Oregano, Thyme (oral administration)
- Symptomatic application of antispasmodic oils and appetite stimulating oils as needed
- Always address the environment, hygiene, feces removal from yard, etc.
- Advise on use of Digestive Enzymes and probiotics



GI PARASITES

- Common parasites: Roundworms (nematodes), Hookworms, Whipworms, Tapeworms (Cestodes), Pinworms, Lung Worms, Stomach worms (barber poles), Flukes (trematodes), etc.
- Options include Traditional deworming, herbal formulations (such as the Parasite Formula at landofhaviilahfarm.com), or Essential oils – Bergamot, Roman Chamomile, Fennel, Oregano, Thyme, and Lemongrass all have expelling properties when given internally.
- ***For more information, see your membership portal for the “Let’s talk about Parasites” webinar

DISEASES OF THE STOMACH & INTESTINES

- Viruses: Parvovirus, Coronavirus, etc.
 - Use Antiviral oils – internally if possible, topically if not
 - Digestive support oils
 - Supportive care
- Constipation
 - Ginger, Peppermint, Fennel, Rosemary, Lemon
- Gastritis – inflammation of the gastric mucosa. Vomiting due to irritation, infection, allergies, or injury (including ulceration)
 - Anti-nausea like Ginger, Peppermint, Lemon; Antispasmodic oils, and Anti-inflammatory oils
- GI Neoplasia (Adenocarcinomas, Lymphoma, etc.)
 - Essential Oils that may help: Anti-tumoral oils - Frankincense, Pink Pepper, Copaiba, Lemongrass; Anti-inflammatory or Analgesic oils for inflammation and pain - Lavender, Frankincense, Copaiba, Turmeric, Ginger, Lemongrass, Bergamot, Roman Chamomile; Anti-oxidant oils - Clove, Thyme, Marjoram, Chamomile, Lavender, Rose
- Ulcers
 - Gastroprotective oils – Lemongrass, Citrus oils, Ginger, Turmeric; Anti-inflammatory oils – Frankincense, Copaiba



IBD (IBS) OR MALABSORPTION

- inflammation of unknown etiology
- Symptoms: chronic or intermittent vomiting, diarrhea, changes in appetite, weight loss, anorexia
- Address diet – a bland EASILY DIGESTIBLE diet, and more frequent small meals (4-6 per day), probiotics, digestive enzymes, vitamins (especially B-12)
- Antispasmodic oils; Anti-inflammatory oils – Cardamom, Ginger, Frankincense, Copaiba, Myrrh
- Consider CBD oil
- Address symptoms & stress

DISEASES OF THE RECTUM | ANUS

- Anal Sac Disease:
 - Symptoms: Scooting, licking, biting the anal area, painful defecation
 - Abscesses, Impaction, neoplasia, infection are common
 - Oils to use: Antibacterial oils internally, hot compress with gentle anti-inflammatory or soothing oils topically (Lavender, Copaiba, Roman Chamomile, Frankincense, Myrrh)
- Tumors – antitumoral oils
- Polyps – use antitumoral oils
- Tears and fistulas: Veterinarian involvement required (can use wound healing oils post-veterinary visit)

PANCREAS

■ Pancreatitis

- Idiopathic or dietary indiscretion. May be triggered by stress. Trauma or infectious disease causes have been reported.
- Symptoms: Anorexia, vomiting, weakness, lethargy, abdominal pain, dehydration, weight loss, fever
- Address diet – LOW FAT DIET REQUIRED, especially in chronic cases. Oils targeted at symptomatic relief (anti-spasmodic, analgesic) and anti-inflammatory

■ Exocrine Pancreatic Insufficiency (EPI)

- Maldigestion and malabsorption due to lack of ability to produce pancreatic digestive enzymes. Large, malodorous feces that are pale in color
- Supplement with digestive enzymes (porcine based is preferred over plant based) and powder is more effective than capsules or tablets. Raw fresh pancreas may be fed and is excellent.
- Digestive support oils – Antispasmodic

■ Pancreatic Neoplasms

- May result in EPI if the duct is affected.
- Anti-tumoral oils

■ Pancreatic Abscess

- Complication of pancreatitis – surgical drainage recommended and antimicrobial oils

LIVER

- Usually see elevated liver enzymes before any clinical symptoms
- Hepatic failure
 - IV fluids, B12 injection
- Hepatic Lipidosis in cats
 - FOOD is the best medicine, B12 supplementation
- Infectious liver diseases
 - Viral: FIP, Canine herpesvirus
 - Bacterial Disease: Leptospirosis, Tyzzer's disease, mycobacterium
 - Protozoal: Toxoplasmosis, Leishmaniasis
- Copper storage disease (hereditary)
- Hepatic neoplasia
 - **Anti-tumoral oils:** Frankincense, Sandalwood, Pink Pepper, Copaiba, Lemongrass
 - **Anti-inflammatory** or Analgesic oils for inflammation and pain: Lavender, Frankincense, Copaiba, Turmeric, Helichrysum, Yarrow, Ginger, Lemongrass, Bergamot, Roman Chamomile
 - **Antioxidant Oils** – Clove, Thyme, Marjoram, Chamomile, Lavender, Rose
- For ALL of these, include 1-3 Hepatoprotective oil(s): Copaiba, Ginger, Coriander, Caraway, Helichrysum, Juniper Berry

CARDI

- Cardi had Bloody diarrhea & vomiting starting Sunday
- DigestZen and OnGuard diluted every 2 hours starting Sunday topically
- Added OnGuard and Oregano internally Tuesday
- Chicken broth and Pedialyte hourly for hydration
- Parvo test confirmed + on Tuesday
- This is her on Wednesday

Here is Cardi Wednesday afternoon!!!

She was sick Sunday(bad), Monday(bad), Tuesday (confirmation from Vet, and a little more energy but tired quickly), but look at her running around Wednesday!!!

She has been taking origins canine supplements since we brought her home contact Faith Lenz because a healthy base is everything!

I also had oil advice from Dr Janet Roark! If you have pets you NEED to follow her!! Invaluable information!

DoTERRA essential oils saved my pups life! 🥰🥰🥰

I would post pictures of her poop from Sunday to compare poop on Wednesday but that seems gross. 😂😂😂



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More Videos

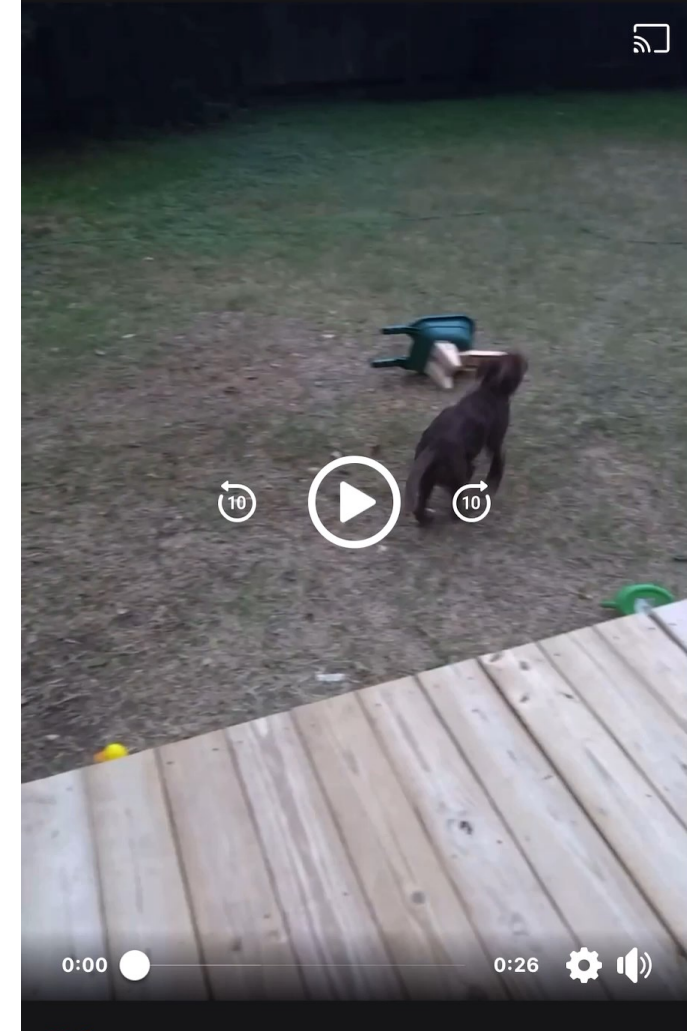


Melissa Conrad · 🚫

Nov 1, 2018 · 🌐



Here is Cardi Wednesday afternoon!!!
... See More



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👍❤️ 13

17 Comments · 5 Shares · 797 Views



FUNDAMENTALS OF ADDRESSING DIGESTIVE SYSTEM CONCERNS

1. Detoxification
 - Fasting, Fiber, Flora
2. Soothe The Digestive System
 - Antispasmodic oils
3. Alternative therapies – Acupressure/ Acupuncture, homeopathy, herbal remedies, essential oils
4. Return the gut to its normal microflora
5. Natural and appropriate diet for the situation and species

QUESTIONS?

