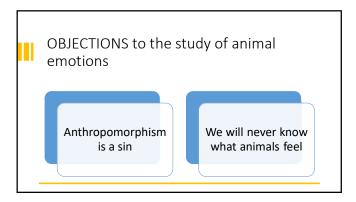


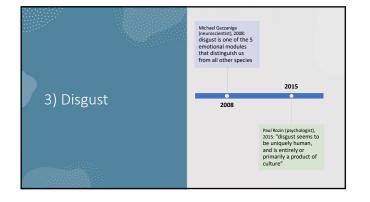
The expression of the Emotions in Man and Animals



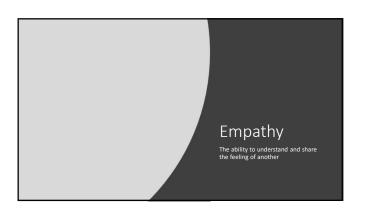
Anthropodenial (Waals, 2021) • A priori denial that other animals can have human-loke mental experiences or that humans are like animals	
6 basic emotions (Paul Ekman)	
Origin of laughter and smile (Jan van Hooff, 1971)	

Past: • Forgiveness, revenge, gratitude
present Future:

	1
Reconciliation	
NECONCINATION	
Friendly reunion between former opponents (not long) after a conflict-	
reconciliation sequence (primates, dolphins, goats, dogs)	
	1
2) Impulse control (free will)	
Marshmallow test w/ apes, parrots	
	_
	-
PLANNING	
(Wolfgang	
(Wolfgang Köhler, 1912- 1920)	
1920)	
	_







		Can be studied without knowing feelings
Animal	emotions:	Are like organs: we don't have any that animals lack
		Are regulated and controlled

What is veterinary behavioural medicine?

- Behavioural medicine is the discipline that deals with emotional health and the link with physical disease
- Emotional health is equally important to physical health
- An understanding of emotional health is a day one skill for the veterinary profession just as much as it is for medical professionals

Motivationalemotional systems

From an affective neuroscientific perspective, adapted and developed from work by Jaak Panksepp, the motivational-emotional systems can be classified into different systems:

1. The Seeking (Desire) System	
1. The Seeking (Desire) System	
a general-purpose neuronal system that	
motivates animals to move to places where they have more potential of	
finding and consuming resources needed	
for survival e.g. food, water, shelter etc	
2. The Frustration System	
<u></u>	
The "frustration system" is	
triggered by a failure to meet	
expectations, obtain resources	
or retain control	
This system intensifies and	
accelerates behavioural responses	
responses	
It is accordated with approaches behaviours when animals do not	
It is associated with aggressive behaviours when animals do not have control over a situation, when they are irritated or restrained.	
3. The Fear-Anxiety System	
This system relates to the preservation of comfort provided by	
predictable access to essential	
resources and the management of	
This system relates to the preservation of comfort provided by predictable access to essential resources and the management of threats to personal or resource security	
This "system" intrinsically helps animals to avoid dangers and it is more adaptive to feel anticipatory fear (anxiety) than to be attacked and harmed	
more adaptive to feel anticipatory fear (anxiety) than to be attacked	
and harmed	

	·
4. The Lust System	
The "livet system" commisses the	
The "lust system", organises the specific reproductive needs, ranging from the attraction or the selection of a partner through courtship to any potential bond to mating with a	
the selection of a partner	
potential bond to mating with a	
sexual partner	
5. The Care System	
The "care system", is dedicated to maintain the bonds to the individual	
offspring through a recognisable	-
parental care or nurturance towards others	
	1
6. The Panic (Grief) System	
• This system is related more to the	
protection of the species rather than the individual.	
 It relates to the safeguarding of the survival of young and therefore the protection of the genetic survival of 	
protection of the genetic survival of the species	

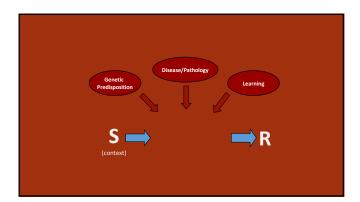
7. The Social Play System	
This system gives information to individuals about their own social	-
competence and potential in relation	
to others	
	-
8. The Pain System	
The "pain system" is related to the	
maintenance of body integrity and functioning and it is both a distinct	
sensation and a motivation	
The activation of this system is a	
response to the environmental	
stimuli which are related to actual or potential tissue damage	
From a clinical perspective the most important emotions	
in terms of developing potential problems are:	
5.1.0	
Frustration Fear (Anxiety)	
• Panic (Grief)	
• Pain	
	<u> </u>

The following emotions are less likely to be problematic:	
Social Play Lust Seeking (Desire)	
• Lust	
Emotions can sometimes be difficult to tell apart • Fear (Anxiety) • Frustration • All of these emotions may manifest as mounting behaviour • Be careful not to neuter if lust is not the motivation	
Emotional capacity Emotional stability depends on the individual having adequate emotional capacity This can be thought of in terms of an emotional sink	

Sink model From Sarah Heath	
The significance of displacement behaviours • Normal behaviours in an abnormal context	
* Normal behaviours in an abnormal context	
The significance of displacement behaviours	
The Significative of displacement behaviours The behavioural equivalent to the flow of water through the overflow hole in the top of the sink	

The risk of overflow

- Emotional overflow is most likely if:
 The sink is small (low emotional capacity)
 The tap is hot when this is not justified
 The tap is turned on full
 There was a high level of residual water in the sink at the time (poor emotional resilience)
 The people around do not recognise or act on species specific signs of impending overflow



Potential behavioural responses to negative emotion

- Inhibition: passive gathering of information (freeze)
 Appeasement: active exchange of information (fiddle)

Potential behavioural responses to negative emotion	
Avoidance (flight) Repulsion (fight)	
Repulsion (right)	
	-
	1
Let's now focus on	
"aggressive" behavioural manifestation	
aggressive benavioural mannestation	
	1
Common causes for dog bite	
Lack of socialization (early in life, but also during the life)	
Behaviour presented by the victim and the interpretation made by the dog	
Lack of understanding or misunderstanding of dog's behaviour by the victim.	

Do we need to categorize aggression? Different authors present different categories: • Maternal • Fear • Pain • Territorial • Redirected • Predatory • Idiopathic • Play • MOTIVATION — EMOTION BEHIND IS THE	
MOST IMPORTANT DETAIL FOR THE	
DIAGNOSE AND TREATMENT!	
AND THERE ARE SEVERAL FACTORS TO	
ANALYZE:	
1.CONTEXT 2.DOG (bh before and after the bite, body language) 3.VICTIM (what was doing before and what did after) 4.BITE (one? Multiple? Released the victim or not? Deep or soft lesion? What part of the victim body?)	
4 pieces of the puzzle Animal Victim Context Bite	

What are the evidences shown by studies? Animal Austral angle of the Control of		
Average age – 4 years did Average awegit – 19,311g dax – 4,89% Campiler filts on a 1900 ye Mile as a 16k feator player of a 30x moint and 1900 years of 30x Moint and 10k feator player of 30x featowers of 1900 years of 30x Moint and 10k feator player of 30x featowers of 1900 years		
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WHICH IS THE POTENTIAL	WHICH ARE THE DOTENCIAL DANGEROUS PREEDS22	
POTENTIAL	WHICH ARE THE POTENCIAL DANGEROUS BREEDS!!	
POTENTIAL		
POTENTIAL		
ANIMAL??		
	ANIMAL??	

Some pro	blems	relat	ed wi	th Do	og Bre	eds /	۱ct

- Some are potencial dangerous while all the others are safe;
- The penalities are generally to the animal and not to its responsible
- Do not implement education of dogs, caregivers and lay people from the public (as children, but not only)
- Promote ilegal breeding and bad conditions for these specific breeds

Victim

Age – Children

Body affected áreas – Members (upper – in adults).

In children: head and neck

Sex - Male

Context

The victim knows the $\mbox{dog}-\mbox{in}$ the great majority

Interaction with the dog before the accident – in the great majority

Owner – in the great majority (Borud et al, 1986, Spakowski et al, 1989) vs Stray Dogs (Marijana et al, 2008)

Place – in the dog's household or security place

Number of bites – One

Season – Between Spring and Summer (March and August)

What can we conclude with this data?	
What can be leading to these accidents?	
DOG COMMUNICATION	
Codles	
Guilty	
he knows he did something wrong!	

	_
Tail	
shaking	
always	
means	
that	
Why the kind gestures can be not	
well received by the dog??	
Dog's perspective:	
First see legs and than our face staring them Follows a threatening approach!	
Avoid petting when the body posture	
indicate that is not comfortable. Attention: fear response is frequently	
subtile.	
Problem gets worse in future interactions!	
Let's discuss a case??	

Ed			
—			
Dog, entire, Patterdale Terrier Cross, 1,5 y.o.			
Reason to consultation: generalized aggression t in the street and now with the owner's boyfrien	coward men d		
Blood analysis and physical exam: ok			
stood analysis and physical examit ox			
Relevant information			
Attacks target:			
Attacks target: Dogs/people Known/unknown			
Attacks target: Dogs/people Known/unknown Contexts where it happens: Interaction interpreted as threaten			
Attacks target: Dogs/people Known/unknown Contexts where it happens:			
Attacks target: Dogs/people Known/unknown Contexts where it happens: Interaction interpreted as threaten Approach (physical or visual) Dog body posture:			
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Attacks target: Dogs/people Known/unknown Contexts where it happens: Interaction interpreted as threaten Approach (physical or visual) Dog body posture:			

Relevant information

Characteristics:

Threat/Attempt/one single bite or several light bites follwoed by behaviours to increase distance.

After behaviour:
Step away, increase distance, submission.

Victims:
Dogs/Unknown people or those that have certain characteristics or associated with a specific(s) episode(s).

- Is it a diagnose or a symptom? - Are we going to cure? - What are we treating? WHAT ARE THE POSSIBLE MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE? - Both in clinical context as in others, the most severe contexts are those related with frustration, fear and anxiety (and pain).		
* Is it a diagnose or a symptom? * Are we going to cure? * What are we treating? WHAT ARE THE POSSIBLE MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE?		DIAGNOSE AGGRESSION222
WHAT ARE THE POSSIBLE MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE?		DIAGNOSE AGGRESSION???
WHAT ARE THE POSSIBLE MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE?		• Is it a diagnose or a symptom?
WHAT ARE THE POSSIBLE MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE?		Are we going to cure?
WHAT ARE THE POSSIBLE MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE?		
MOTIVATIONAL-EMOTIONAL SYSTEMS IDENTIFIED IN THIS CASE?		what are we treating:
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both in clinical context as in others, the most severe contexts are those related with frustration, fear and anyiesty (and paid).		
		Both in clinical context as in others, the most severe contexts are those related with frustration, fear and populate (and populate).

Fear is the number one reason to search for a behaviour specialist (Denenberg et al., 2005).

Denenberg et al. (2005). A comparison of cases referred to behaviorists in three different countries. In Current issues and research in veterinary behaviorual medicine. Papers presented of 5Th IVBM, ed. D. Mills et al. 56-62. West Lafayetto, Incl. Purtue Univ. Press.

Source NEGATIVE EMOTIONS	
1. Owner handling	
2. Earlier experiences/traumatics	
3. Genetic predisposition (specie, breed, individual) - FEAR	
4. Development/socialization	

Treatment Strategies	
1. Psychopharmacology	
2. Diet	
3. Pheromones	
4. Environmental Modification	
5. Behavioural (Emotional) Modification	

FEAR

Behavioural (Emotional) Modification

The main goal is to change a behavioural response to a stimulus or situation through changing the emotional motivation.

Re	havioura	П	emotiona	N	Mod	Hil	ication
DE	Havioula		CITIOLIONA	ш	IVIUL	ш	ication

- Identify signs of fear
- Identify the stimuli that trigger the response
- Establish an intensity gradient of stimuli
- Control the exposure (if possible, only during the sessions)
- Identify the limit of fear response
- Control the dog's response (security, training, and avoiding strategies)
- · Define reinforcers very important
- Adopt the adequate posture

What should we do... ...to NOT worse the situation?

Putting a spider in your face solve the situation?

Probably the only way to get habituated to the spider is if the approach is done gradually and at your time.

Classic Counterconditioning

New associations are made, because a new emotional and physiological response is trained in the situation. Usually associated with Desensitisation.

Ex: dog that has fear of another dog/noise is trained to associate a treat or play with this stimulus-incompatible emotional response. At the beginning something good, independentely of the behaviour, is given simultaneous with the stimulus.

Changing emotional state... The behaviour will also change!

Consistency in management Dog control Accident prevention Increase exercise (cognitive) Change behaviour and dog's perception (SECURITY!!!) (systematic desensitization and countercounditioning) Abolish aversive techniques and positive punishment	
POSITIVE PUNISHMENT AND CONFRONTATION	
POSITIVE PUNISHMENT AND CONFRONTATION	
POSITIVE PUNISHMENT AND CONFRONTATION	
POSITIVE PUNISHMENT AND CONFRONTATION • Decrease social contact	
Increase anxiety and fear Increase the agression intensity and frequency Inhibit warning signals (impulsivity) Don't guide the animal to the wished bh Hiby et al., Animal Welfare, 2004 Heron et al., Applied Animal Behaviour Science, 2009 Blackwell et al., Journal Veterinary Behaviour, 2008 Ahante et al., Applied Animal Behaviour Science, 2010 Boony et al., Applied Animal Behaviour Science, 2010 Hsu et al., Applied Animal Behaviour Science, 2010 Boony et al., Applied Animal Behaviour Science, 2010 Boony et al., Applied Animal Behaviour Science, 2010	

Want to dominate	the dog?		
PREVENTION Breeders' training (as well as animal officials and NGOs) Caregivers' training National entities (schools, hospitals, among others) — in without dogs) Veterinarians, Vet nurses and technicians Socialization of puppies and dogs Proper training with scientifically evidence techniques Training and socialization of shelter dogs Prevention is responsability of everyone; animal behaviour experts, psychological	nealth professionals, pediatricians,		
	Conclusion Behaviour is motivated by emotion There is a variation in normal emotional systems These are associated with behavioural responses		

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Con	\mathcal{C}	Ш	ısı	\cap	n	ς

- Assessing emotional health is a vital part of the diagnostic process in behavioural cases
- It is also essential in order to safeguard the welfare of all domestic pets.

Working in Behaviour is like being an FBI Profiler....

