

3RD INTERNATIONAL JACKAL SYMPOSIUM 02-04. NOVEMBER 2022 GÖDÖLLŐ, HUNGARY

CAN THE DONKEY BE A POSSIBLE PREY FOR GOLDEN JACKAL?

Description of the predation strategy on multiple attacks

Stefano Pesaro¹, Marcello Franchini¹, Lorenzo Frangini¹, Paolo Benedetti²

¹Department of Agri-Food, Environmental and Animal Sciences, University of Udine, Via Sondrio 2/A, 33100 Udine, Italy ²Corpo Forestale Regionale, Regione Friuli Venezia Giulia, Via Sabbadini 31, 33100 Udine, Italy





REGIONE AUTONOMA FRIULI VENEZIA GIULIA



Diet of Jackal

The available literature mostly refer to data obtained from the analyses of stomach contents and/or reports about the impacts on livestock.



The golden jackal (*Canis aureus*) is an opportunistic carnivore, mainly showing a scavenging behaviour but also active predations.



Diagnosis and compensation of damages

In Italy as in FVG the damages causing to wild carnivores (jackal, wolf, bear) are compensated by regional public authority

The assessment of predatory events are evaluated by forest police in association with veterinarians (University of Udine or public veterinary authority)

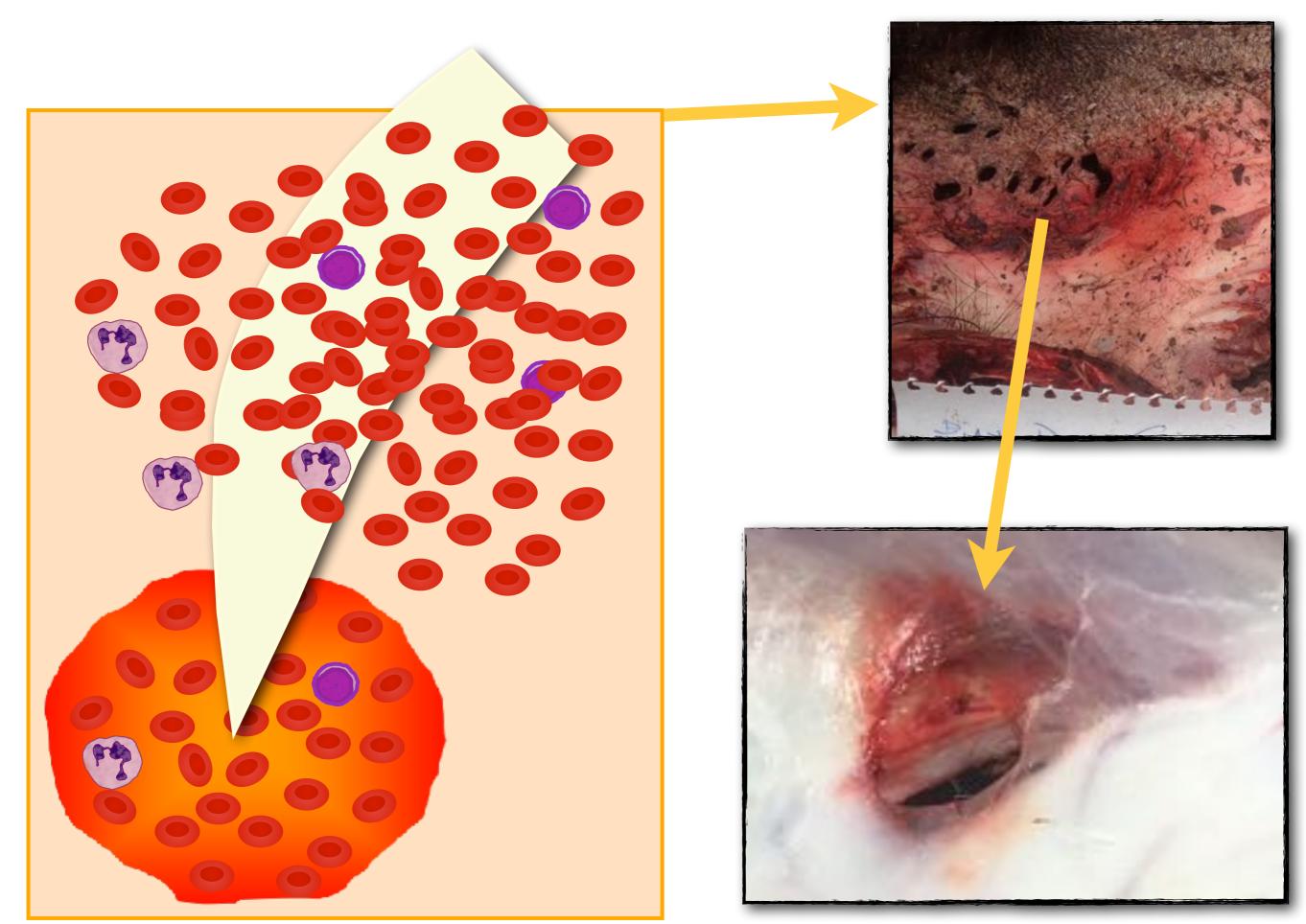




The bite and claw produce lacerated bruised wounds as a result of the compression and traction action exerted by the predator's mouth and head by means of the teeth. (Canids, Bear, Lynx)

The cut has an elongated shape, with sharp edges, acute extremes and with walls with clear and regular edges. (Bear, Lynx)

Diagnosis and compensation of damages



Predation on livestock in FVG



- Prey: Sheep (Istrian sheep or medium-small breeds)
- Age: juvenile, adult
- BDS: various
- Localization: different areas of FVG
- Period: July-Agust



Fig I Multiple cutaneous laceration in neck caused by bites

Lesions



Fig. 2 Subcutaneous and muscles hemorrhages in mandibular and neck districts



Fig. 3 Cutaneous lacerations in abdominal area caused by bites

Consumption



Fig. I Consumption of toracic muscles



Fig. 2 Consumption of thoracic organs, abdominal wall and some part of limb muscles



Fig. 3 Dislocation of GE tract (forestomachs and intestine)

Cases Report of this Study



- Prey: donkeys
- Age: juvenile, adult
- BDS: various
- Period: March-July from 2016 to 2021
- Localization: in the restricted area of the Italian Karstland
- Area of events: 39 ha (3,31ha)



N°	Date	Gender	Age
1	2016.07.29	F	Adult
2	2017.04.07	F	Adult
3	2019.03.05	F (1 year)	Juv
4	2020.03.03	F	Adult
5	2020.03.07	F (pregnant)	Adult
6	2021.03.12	F	Adult

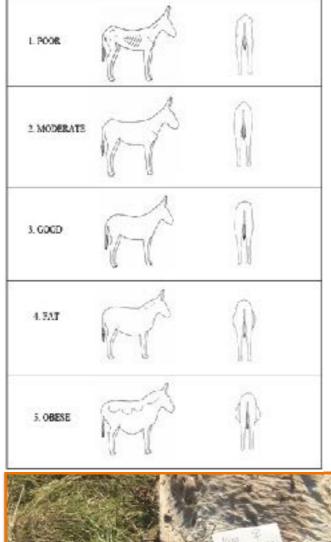
Animals





N°	Date	BCS	
1	2016.07.29	1 Poor	
2	2017.04.07	2 Moderate	
3	2019.03.05	3 Good	
4	2020.03.03	3 Good	
5	2020.03.07	3 Good	
6	2021.03.12	3 Good	

Physical conditions



Weight estimation 60-200 kg



N°	Consumption	Lesions	Outocome
I	Abundant of cutis/ subcutis and mucosa of external genitalia, anal sphincters, mm pelvic limb	Severe laceration of: cutis, muscles, anus, external genitalia	Died
2	Cutis/subcutis and mucosa of external genitalia, anal sphincters	Laceration of cutis, muscles, anus, external genitalia	Died
3	Absence	Lacerations of cutis of perineal region	Alived
4	Cutis/subcutis and mucosa of external genitalia, anal sphincters	Lacerations of cutis, muscles, anus, external genitalia	Died
5	Cutis/subcutis and mucosa of external genitalia, anal sphincters	Lacerations of cutis, muscles, anus, external genitalia	Euthanized
6	Absence	Lacerations of cutis and subcutis of perineal region and tail	Alived

Medical aspects



Anatomopathological aspect



Fig. I Skin scar in the tail



Fig. 3 Abundant consumption of perineal area and mm. of pelvic limb: hamstring, semitendinosus, semimebranosus



Fig. 2 Cicatrization process with granulation tissue and hemorrhagic scar in perianal area



Fig. 4 Lesions and consumption of perineal area Anal sprinter and external female genitalia

Attribution of predator









Signs of presence:

scat, footprint, jackal howl

Anatomapathological investigation:

Trained and experienced staff

Camera trapping: video photo

Attribution of predator



Attribution of predator



Dott. Paolo Benedetti Regione FVG

Conclusions

- These finding represent the first documented cases of attacks towards donkeys.
- Despite rare, these events prove the capacity of the jackal to attack big prey (more than 10 times larger).
- The choice of the perineal region can be interpreted as an attempt to induce severe injuries due to the high vascularized and thinness skin that can be induce the death even if not immediately.
- Probably this predatory events can be associated with one specific pack or individual and can be correlated to the high density of jackals in the study area, as well as to the improper management of donkeys.
- Our findings contribute to enrich the scanty information available about the impact that golden jackals may have on livestock

Questions

Why do these predations occur so early in the year (March) compared to the predation of the sheep (April to August)?

Induction of abortion in donkey birth period or can be correlated by other reasons.



Thank you for attention

Thanks to:



Stazione Forestale di Attimis



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