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Pulmonary arterial lesions in new world camelids in association with *dicrocoelium dendriticum* and *fasciola hepatica* infection

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Supplementary Table 2. Species, age, gender, occurrence and degree of thoracic and/or abdominal effusions, histological lung and liver changes as well as enzymes, liver fluke or egg occurrence in the liver in alpacas with liver fluke infestation

Species	Age	Gender	Effusion	Lung vessels	Liver flukes/eggs Parasitology	Liver enzymes	Liver changes
Alpaca	4 years	Female	Thoracic: + Abdominal: -	Intima: - Media: - Adventitia: -	- Parasitology: n.d.	n.d.	++-+++ Granulomas: - Abscesses: -
Alpaca (1)*	10 years	Female	Thoracic: - Abdominal: +++	Intima: - Media: - Adventitia: -	Dicrocoelium eggs in the biliary ducts Parasitology: Dicrocoelium +++	GGT and ASAT elevated. CK normal. SDH, GLDH, Albumin and AP n.d.	++ Granulomas: ++ Abscesses: -
Alpaca	2 years	Female	Thoracic: - Abdominal:	Intima: -	- Parasitology:	n.d.	+

			+++	Media: -	Dicrocoelium +		Granulomas: -
				Adventitia: -			Abscesses: -
Alpaca	8 years	Female	Thoracic: -	Intima: -	-	n.d.	+
			Abdominal: +	Media: -	Parasitology:		Granulomas: -
				Adventitia: -	Dicrocoelium +		Abscesses: -
Alpaca	-	Female	Thoracic: -	Intima: -	Dicrocoelium flukes	n.d.	++-+++
			Abdominal: -	Media: -	and eggs in the		Granulomas: -
				Adventitia: -	biliary ducts and in		Abscesses: +
					the parenchyma		
					Parasitology:		
					Dicrocoelium ++		
Alpaca	5 years	Female	Thoracic: +	Intima: -	Dicrocoelium flukes	n.d.	+++
			Abdominal: -	Media: -	in the parenchyma		Granulomas: +
				Adventitia: -	Parasitology: n.d.		Abscesses: +
Alpaca	7 years	Female	Thoracic: +++	Intima: -	Dicrocoelium eggs in	n.d.	++
				Media: -	the parenchyma		Granulomas: +
			Abdominal:	Adventitia: -	Parasitology:		Abscesses: -

			+++		Dicrocoelium +---		
Alpaca	3 years	Male	Thoracic: +	Intima: -	-	n.d	+---
			Abdominal: +++	Media: -	Parasitology: Dicrocoelium +---		Granulomas: -
				Adventitia: -			Abscesses: -
Alpaca	8.5 months	Female	Thoracic: +	Intima: -	Dicrocoelium eggs in the parenchyma	n.d.	+---
			Abdominal: -	Media: -	Parasitology: Dicrocoelium +---		Granulomas: -
				Adventitia: -			Abscesses: -
Alpaca	7 years	Castrated male	Thoracic: -	Intima: -	Dicrocoelium flukes in the biliary ducts	GGT, ASAT and CK elevated. SDH, GLDH, Albumin and AP n.d.	++
(2)			Abdominal: -	Media: -	Parasitology: Dicrocoelium +---		Granulomas: -
				Adventitia: -			Abscesses: -
Alpaca	Adult	Male	Thoracic: -	Intima: -	Dicrocoelium eggs in the biliary ducts	GGT and ASAT elevated. CK normal.	+---
(3)			Abdominal: -	Media: -	Parasitology:		Granulomas: -
				Adventitia: -			Abscesses: -

					Dicrocoelium +++	SDH, GLDH, Albumin and AP n.d.	
Alpaca (4)	4 years	Female	Thoracic: +++ Abdominal: +++	Intima: - Media: - Adventitia: -	Dicrocoelium eggs in the biliary ducts Parasitology: n.d.	GGT, SDH, CK, Albumin and AP elevated. ASAT normal. GLDH n.d.	++ Granulomas: - Abscesses: -
Alpaca	1.5 years	Male	Thoracic: - Abdominal: -	Intima: - Media: - Adventitia: -	Dicrocoelium eggs in the biliary ducts and liver flukes in the parenchyma Parasitology: Dicrocoelium +	n.d.	++ Granulomas: - Abscesses: +
Alpaca (5)	10 years	Male	Thoracic: - Abdominal:	Intima: -	- Parasitology:	SDH and ASAT	+

			-	Media: -	Dicrocoelium +	elevated.	Granulomas: -
				Adventitia: -		GGT and Albumin normal. AP decreased. GLDH and CK n.d.	Abscesses: -
Alpaca	5 years	Female	Thoracic: ++	Intima: +++	Dicrocoelium flukes in the biliary ducts	n.d.	++
			Abdominal: +++	Adventitia: +++	Parasitology: Dicrocoelium +		Granulomas: + Abscesses: -
Alpaca (6)	5 years	Castrated male	Thoracic: -	Intima: -	Dicrocoelium eggs in the parenchyma	GGT, SDH, ASAT, CK and AP elevated. Albumin decreased. GLDH n.d.	+++ Granulomas: + Abscesses: -
			Abdominal: +++	Adventitia: -	Parasitology: Dicrocoelium ++		
Alpaca	9.5	Female	Thoracic: +	Intima: -	-	n.d.	+++

	months		Abdominal: -	Media: - Adventitia: -	Parasitology: Dicrocoelium ++		Granulomas: - Abscesses: -
Alpaca	-	Male	Thoracic: - Abdominal: +++	Intima: ++ Media: + Adventitia: ++-+++	Dicrocoelium eggs and flukes in the biliary ducts Parasitology: Dicrocoelium +++	n.d.	++ Granulomas: - Abscesses: -
Alpaca	4 years	Female	Thoracic: + Abdominal: +	Intima: ++ Media: +-++ Adventitia: +++	- Parasitology: Fasciola +	n.d.	++-+++ Granulomas: - Abscesses: +
Alpaca	8 years	Male	Thoracic: - Abdominal: -	Intima: - Media: - Adventitia: -	Fasciola flukes and eggs in the biliary ducts Parasitology: Fasciola ++	n.d.	+++ Granulomas: + Abscesses: +

Effusions (thoracic and/or abdominal): + = up to 1,5 liter; ++ = 2 to 3 liter; +++ more than 3 liter

Lung changes: Intima, media, adventitia: + = mild; ++ = moderate; +++ = strong; +-++ = mild to moderate; ++-+++ moderate to severe

Liver changes: median score between fibrosis, degeneration/regeneration, biliary proliferation, inflammation: + = mild; ++ = moderate; +++ = strong; +-++ = mild to moderate; +++-+++ moderate to severe

Granulomas: visible = + or not visible = -; abscesses: visible = + or not visible = -

Parasitology: Dicrocoelium: + = mild infestation; ++ = moderate infestation; +++ = strong infestation; negative = - n.d. = not done

Liver enzymes: GGT = Gamma Glutamyltransferase; SDH = Sorbitol Dehydrogenase; GLDH = Glutamate Dehydrogenase; ASAT = Aspartate Aminotransferase; CK = Creatine Kinase; AP = Alkaline Phosphatase

(1)* = number of the animal in table 3

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