

SUPPORTING INFORMATION

Infectious keratoconjunctivitis associated with *Pseudomonas aeruginosa* infection in a fat-tailed sheep reared under semi-open housing conditions[†]

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S1 Hematological findings

The hematological profile showed a normal erythrogram, as indicated by erythrocyte count, hematocrit, hemoglobin concentration, MCV, MCH, and MCHC values within the reference ranges. These findings suggest the absence of anemia, hemoconcentration, or major systemic erythrocyte abnormalities. In contrast, the leukogram revealed leukocytosis accompanied by neutrophilia, indicating an active inflammatory response most consistent with acute bacterial infection. Normal eosinophil and basophil counts provided no hematological evidence of a marked allergic or parasitic response, although parasitic ocular disease could not be completely excluded based on hematology alone. Overall, the CBC findings support the clinical diagnosis of infectious keratoconjunctivitis associated with bacterial infection.

Table S1. Hematological profile of the affected fat-tailed sheep with *Pseudomonas aeruginosa*-associated infectious keratoconjunctivitis

Parameter	Result	Reference *	Unit	Interpretation
Erythrocytes (RBC)	11.85	9–15	×10 ⁶ cells/mm ³	Normal
Hematocrit	35.4	27–45	%	Normal
Hemoglobin	11.4	9–15	g/dL	Normal
Mean corpuscular volume (MCV)	29.9	28–40	fL	Normal
Mean corpuscular hemoglobin (MCH)	9.6	8–12	pg	Normal
Mean corpuscular hemoglobin concentration (MCHC)	32.2	31–34	%	Normal
Leukocytes (WBC)	16,000	4,000–8,000	cells/mm ³	Increased
Neutrophils	10,200	700–6,000	cells/mm ³	Increased
Basophils	0	0–300	cells/mm ³	Normal
Eosinophils	800	0–1,000	cells/mm ³	Normal
Lymphocytes	4,500	2,000–9,000	cells/mm ³	Normal
Monocytes	500	0–750	cells/mm ³	Normal

*Reference range for sheep hematological parameters.

References:

Weiss, D.J., dan Wardrop, K.J. 2010. Schalm's Veterinary Hematology Sixth Edition. Iowa: Wiley Blackwell.

S2 Results of the Wates Veterinary Center Inspection

Bacteriological examination of an ocular swab sample, coded DPE2, was performed at Balai Besar Veteriner Wates. The sample was subjected to bacterial culture, and the laboratory results identified *Pseudomonas aeruginosa* in the eye swab specimen. This finding provides bacteriological evidence supporting the diagnosis of infectious keratoconjunctivitis associated with *P. aeruginosa* infection in the affected fat-tailed sheep. However, the report did not include antibiotic susceptibility testing; therefore, antimicrobial selection in this case should be interpreted as empirical rather than susceptibility-guided.



KEMENTERIAN PERTANIAN
DIREKTORAT JENDERAL PETERNAKAN DAN KESEHATAN HEWAN
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No. Surat : 2387.../PK.310/F.5.D/01/2020
 Lampiran :
 Perihal : Hasil Uji Laboratorium
 Tgl Kirim / No : 17 Januari 2020 /-
 Tgl Terima : 17 Januari 2020
 No EPI : P04200059
 Jenis Layanan : Perorangan
 Tgl Jawab : 23 Januari 2020

KEPADA YTH:
Bagas Pria Prasetyo
Mranggen kidul, Sinduadi, Mlati
Sleman, DIY

LEMBAR ASLI

Hasil uji										
No	Kecamatan	Desa	Pemilik	Lab Uji	Jenis Uji	Jum	Pos	Neg	Sero+	Sero- Lainnya
1.	Lendah	Jatirejo	Paiman	Bakteriologi	Kultur Bakteri	1	0	0	0	1

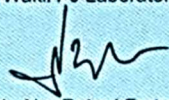
Catatan:
 - Kode sampel : DPE2, Spesimen : swab mata, Uji Kultur Bakteri : *Pseudomonas aeruginosa*



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Tembusan:
 1. Arsip
 2. Kepala Dinas Kelautan, Perikanan dan Peternakan Kab Kulonprogo

PJ/Wakil PJ Laboratorium


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