

Screening for *Rhodococcus equi* at Endemic Farms¹



Perform Initial Thoracic Ultrasound Screen at 4, 6 and 8 weeks of age

Score any lung lesions identified according to Slovis Grading System²
 If lesions identified, collect WBC/SAA and increase ultrasound frequency to weekly with twice daily rectal temperatures until lesions begin to regress.¹

Grade 1 + 2	Grade 3		Grade 4 + 5				≥ Grade 6 and/or WBC > 18.0 cells/uL or Fibrinogen > 800 ug/dl
WBC <13.5 cells/μL	WBC <13.5 cells/μL	WBC >13.5 cells/μL and SAA > or < 75 μg/mL	WBC <13.5 cells/μL and SAA <75 μg/mL	WBC <13.5 cells/μL and SAA >75 μg/mL	WBC >13.5 cells/μL and SAA <75 μg/mL	WBC >13.5 cells/μL and SAA >75 μg/mL	
NO TREATMENT, LIKELY TO REGRESS	NO TREATMENT, LIKELY TO REGRESS	+/- TREAT PPV 33%	+/- TREAT PPV 21%	TREAT PPV 57%	TREAT PPV 44%	TREAT PPV 73%	TREAT PPV 86%

For each patient, initiate treatment based on comfort level of veterinarian and client, or if any of the following are present: T>102.5°F, coughing, increased respiratory rate/effort, or progression of ultrasound score. PPV=Percentage (%) likelihood of progression of disease.

The information provided is for general user understanding and does not constitute veterinary advice.

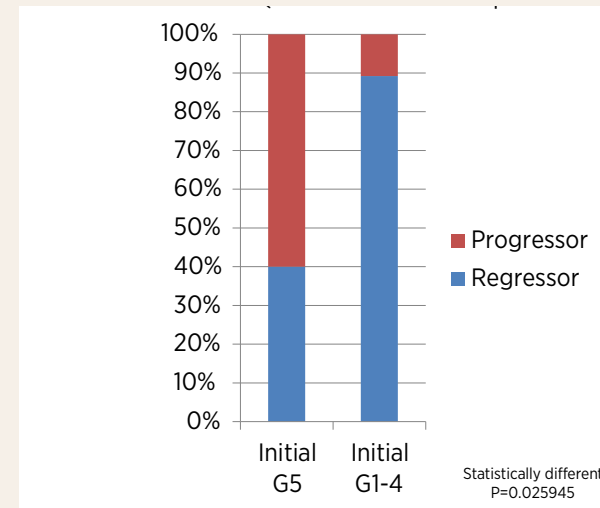
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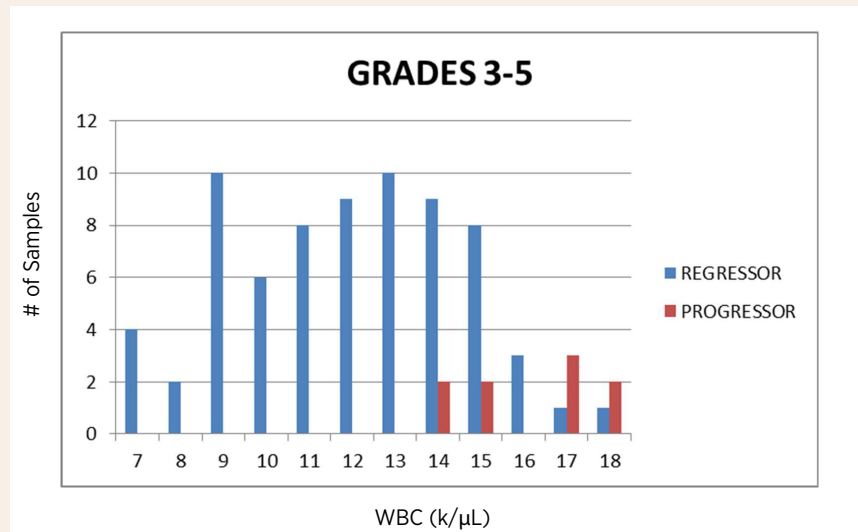
Slovis Grading System²

Grade	Single Largest Diameter (mm)
0	No lesions
0 D ('dirty')	Excessive comet tails, often wide based
1	<10
2	10-20
3	20-30
4	30-40
5	40-50
6	50-60
7	60-70
8	70-80, also any lungs with pleural effusion

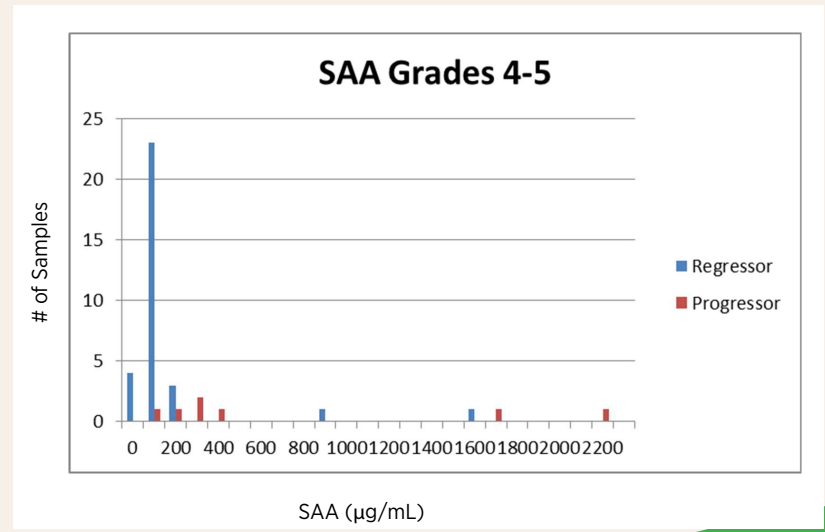
Initial Grade of 5 is Statistically More Likely to Become Clinical¹



Significant difference between WBCs of those foals that progress versus regress¹ (P=0.000139)



Significant difference between SAA of those foals that progress versus regress¹ (P=1.66E-08)



References:

- McCracken, JL. Evaluation of White Blood Cell, Fibrinogen, Serum Amyloid A, and Ultrasonographic Grade to Refine a R. equi Screening Program, in Proceedings. 65th Annual American Association of Equine Practitioners Convention, 2019; 522-530.
- Slovis NM, McCracken JL, Mundy G. How to use Thoracic Ultrasound to Screen Foals for R. equi at affected farms, in Proceedings. 51st Annual American Association of Equine Practitioners Convention, 2005; 274-278.

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