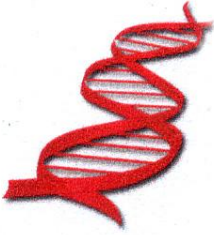


# Pelger-Huët Anomaly Test



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## Laboratory Report

Owner	DVM	Patient ID	Breed	Age / DOB	Sex	Color
Katelyn Scott Peart Sherrie Scott	ND	Spring Fever Rock Paper Scissors "Jasper" AKC # ND	Australian Shepherd	10/30/15	M	ND

**E-mail:** [springfever3@mac.com](mailto:springfever3@mac.com)

**Description:** Two air-dried blood smears were submitted for hematologic examination. Following Diff Quik staining and microscopic examination, all of the neutrophils and other granulocytes have hyposegmented nuclei with a mature, coarse chromatin pattern. This cellular morphology is consistent with Pelger-Huët anomaly.

**Diagnosis:** Positive for Pelger-Huët anomaly (heterozygous phenotype).

**Comment:** Pelger-Huët anomaly is transmitted as an autosomal dominant trait with incomplete penetrance in Australian Shepherds. The anomaly is not associated with an increased incidence of infection. If animals with Pelger-Huët anomaly are bred to each other, litter sizes may be reduced because the homozygous state of the anomaly usually is lethal *in utero*. Elimination or suppression of this genetic trait may be accomplished by selecting and breeding only those individuals with a normal granulocyte phenotype (appearance). Please contact Dr. Latimer at [latimer49@gmail.com](mailto:latimer49@gmail.com) if you have additional questions concerning this test result or questions about this hereditary disorder of granulocyte development.

<b>Clinical Pathologist</b> Kenneth S. Latimer, DVM, PhD, Diplomate ACVP	<b>Date Reported</b> 05/12/17	<b>Hematology No.</b> <b>2017-038</b>
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