Platelet Disorder in Greater Swiss Mountain Dogs

A platelet disorder has recently been identified in Greater Swiss Mountain Dogs at the functional and molecular level. The first dog documented to have the disorder bled excessively following a routine spay.

Platelets are small, circulating cytoplasmic fragments that are the first line of defense in stopping the flow of blood from injured blood vessels. An important aspect of platelet function is their ability to stick to each other and plug holes in damaged vessels until blood clotting and tissue repair can occur. The platelets in affected Greater Swiss Mountain dogs are unable to respond properly to a specific platelet activating agent because of a dysfunctional or missing receptor. Therefore, these dogs are at increased risk for spontaneous hemorrhage and they are also at high risk for excessive hemorrhage as a result of injury or surgery. Post operative hemorrhage may be life threatening. The types of spontaneous bleeding that may occur include excessive gingival bleeding during tooth eruption, nose bleeds, and superficial skin bleeds.

By using DNA testing, affected and carrier animals can be identified by submitting a blood sample through the mail. Carrier detection is vital in controlling spread of inherited defects and DNA testing is the only reliable method of detecting these animals.

The sample required for testing for the platelet disorder in Greater Swiss Mountain dogs is a 2 ml EDTA tube (purple top) containing at least 1 ml of whole blood. Care should be taken to not cross contaminate samples during collection, particularly if more than one dog is collected at the same time. Samples should be labeled clearly so that there is no confusion regarding sample identification. Samples should be kept cold (ice packs) and shipped overnight to the address below. Take care to make sure tubes are protected well to prevent breakage during shipping. Please do not ship on Friday or the day before a holiday. The fee for testing is \$100 per sample. Make checks payable to: Auburn University, Department of Pathobiology.

Please provide the f	ollowing information on ea	ach dog being tested:
Name and Registra	ation Number	
Male or Female (C	Circle one)	
Age at time of sam	pling or Date of Birth	
Registration Numb	per of Sire	
Registration Numb	per of Dam	
platelet disorder in test results will onl understand and ag with those of other including publicati will not be identifia	Greater Swiss Mountaing be released to me. I centre that the results of this owners and used in aggrean. I understand in aggreable specifically to my do	d for the mutation causing an inherited of dogs. I understand that my individual rtify that I am the owner of this dog. I set test may be confidentially combined regate result form for research purposes regate result form my individual results g. I release Dr. Boudreaux and any niversity from all liability regarding this
Owner's Signature		Date
Owner's Name (pr	int clearly or type)	Telephone number/Email Address
Address Results should be sent to:		
Send samples to:	Mary K. Boudreaux, DVM, PhD Department of Pathobiology 166 Greene Hall College of Veterinary Medicine Auburn University, Alabama 36849-5519	

(334) 844-2692