

# SMALL ANIMAL ECHO CORE

**USF/ACH - The Children's Research  
Institute**



## Core Director

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727-553-3509, 8:30 AM to 1:30 PM or  
727-553-1322



## General Information:

Investigators can have adult or embryonic animal heart function or blood flow analyses performed at the St. Petersburg Vivarium with the VisualSonics Vevo770 system. The Vevo770 is a high-resolution *in vivo* micro-ultrasound imaging system for non-invasive small animal research.

See below for procedure that must be followed:

**Fee Schedule:** \$100/hour to develop datasets. This fee includes pre- and post-exam animal handling, acquisition of echo data and delivery of data to the investigator.



## PROCEDURE:

(1) To comply with IACUC regulations, the investigator should have echo monitoring included in the list of procedures to be done on the animals; include this procedure under “*Appendix E Other Experimental Procedures*” in new applications. If this is not a new application, but echocardiography was not included in original IACUC application, please complete the “Request for Procedural Change form” that can be downloaded from: [http://www.research.usf.edu/cm/CMDC/C047\\_3\\_Req\\_Procedural\\_Change\\_to\\_IACUC\\_Protocol\\_10\\_07.pdf](http://www.research.usf.edu/cm/CMDC/C047_3_Req_Procedural_Change_to_IACUC_Protocol_10_07.pdf)

Sample wording on Appendix E in IACUC application:

(2) Please make appointments with Dr. Brinez by email to have the echo done and fill out the required form [*Request for Echo Monitoring*] that is returned electronically to Dr. Brinez. Be sure to indicate if the investigator wants the animal(s) examined over several days by echocardiography, returned to Tampa after the first monitoring, or euthanized after the echo examination.

(3) To have animals transferred to the St. Petersburg Vivarium, please complete the Division of Comparative Medicine’s Request to Relocate Research Animals Form.

Link to Request to Relocate Research Animals:

[http://www.research.usf.edu/cm/CMDC/C004\\_4\\_Req\\_to\\_Relocate\\_Research\\_Animals\\_2\\_05.pdf](http://www.research.usf.edu/cm/CMDC/C004_4_Req_to_Relocate_Research_Animals_2_05.pdf)

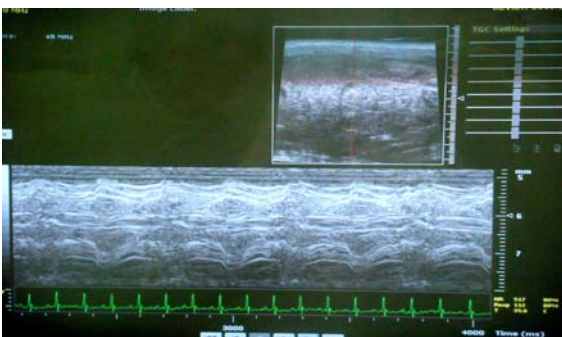
Check with Lloyd Graham in Division of Comparative Medicine (813-974-9876) regarding transport of animals to St. Petersburg.

(4) Once the animals arrive in St. Petersburg, they will be allowed to acclimate at least one to two days before the echo analysis is done. The echo patterns will be copied to a CD and sent to the investigator. A computer with the VisualSonics software will be available at the College of Medicine to analyze the data. If the

investigator would like to present for the analyses, please make arrangements with Dr. Brinez.



Doppler  
Pattern



M-Mode