



**The University of Georgia  
College of Veterinary Medicine**

How to learn with  
**Case-Based Learning**  
for Veterinary Clinical  
Decision Making

Manual for Students



# Welcome!

Welcome to the Case-Based Learning for Veterinary Clinical Decision Making site.

This site was created through interdisciplinary collaboration with the University of Georgia's Department of Small Animal Medicine and Surgery at the College of Veterinary Medicine and the Department of Career and Information Studies at the College of Education.

The goal of this site is to help veterinary medicine students in diagnosing medical cases and planning a course of action while applying basic medical knowledge. We hope that upon completion of the learning module, you will have developed a rational, evidence-based approach to diagnostic and therapeutic decision-making and an awareness of the diagnostic and therapeutic dilemmas accompanying acute canine GI disease.

This manual is comprised of two parts:

1. How to Use This Site
2. How to Study with This Site

“How to Use This Site” provides general guidelines for using this site, and “How to Study with This Site” presents specific guidelines for learning the medical case.

The learning module can be accessed at <http://surgery.coe.uga.edu/>. This learning site is optimized for the following conditions:

- Browser: Google Chrome, Internet Explorer 6, 7, and 8 (partially not compatible with IE9)
- Resolution: 1920 x 1080



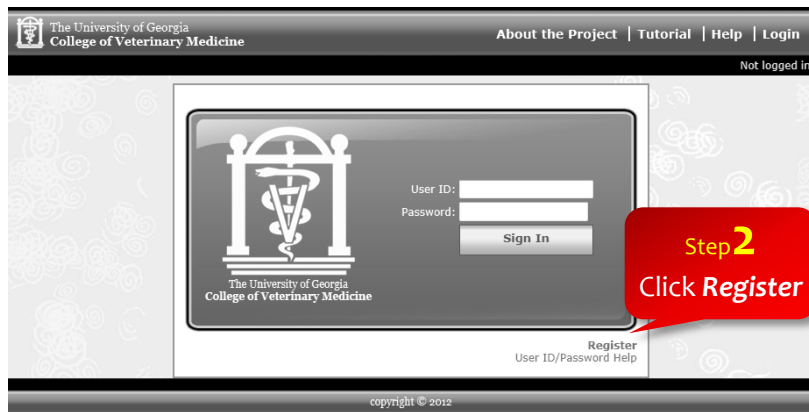
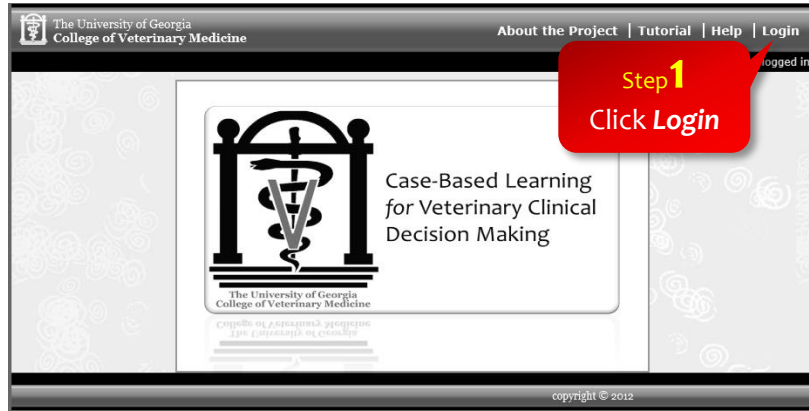


## How to use this site: How to register

### How to use

- How to register
- How to log in/ log out
- How to enroll in a module
- How to explore the site

In order to use the learning website, you need to register on this site first. Please follow the instructions indicated in the following figures.



This screenshot shows the registration form. The title is 'Register'. Below the title, there is a note: 'All fields here are required. You may only have one per email address.' The form contains the following fields: 'First Name:', 'Last Name:', 'Suffix:', 'Title:', 'User ID:', 'Password:', 'Re-enter Password:', 'Email:', 'Institution:' (with a dropdown menu set to 'University of Georgia'), 'College Year:' (with a dropdown menu set to 'Freshman'), and a 'Consent:' checkbox labeled 'I consent to be part of this study...'. A 'Register' button is at the bottom. A footer at the bottom of the form area contains the university logo and name.

TIP. Please skip Suffix and Title.

IMPORTANT. DO NOT USE UGA password.

IMPORTANT. Please be sure to check the box to give consent.

Step 3 Enter the information indicated

Step 4 Click Register

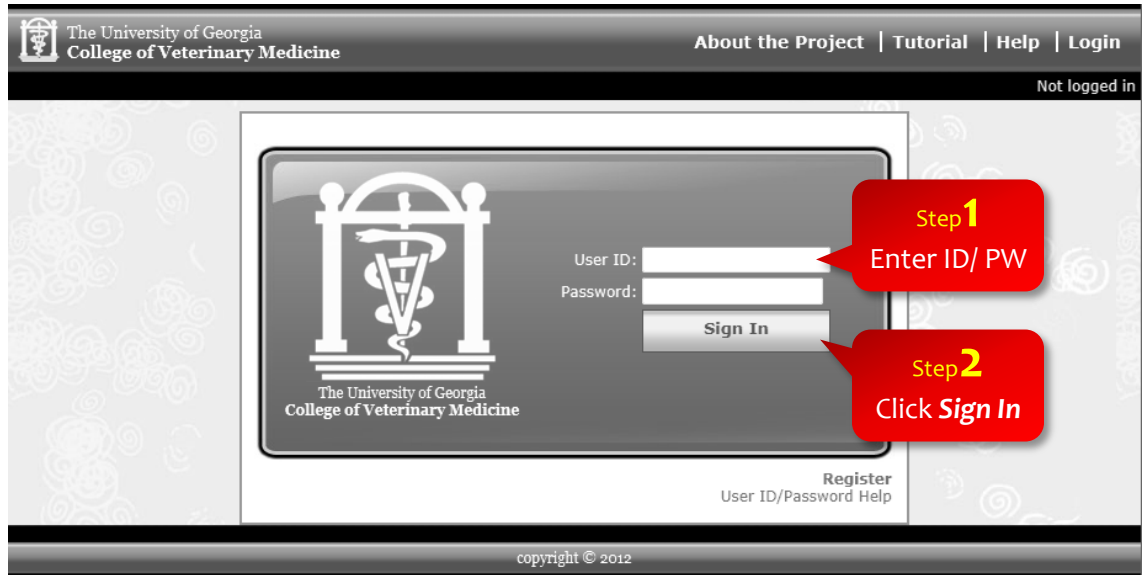


## How to use this site: How to log in/ log out

### How to use

- How to register
- **How to log in/ log out**
- How to enroll in a module
- How to explore the site

To log into the site, enter your valid ID and password and then click *Sign In*.



To log out of the site, please click *Logout* in the upper right corner of the screen.





## How to use this site: How to enroll in a module

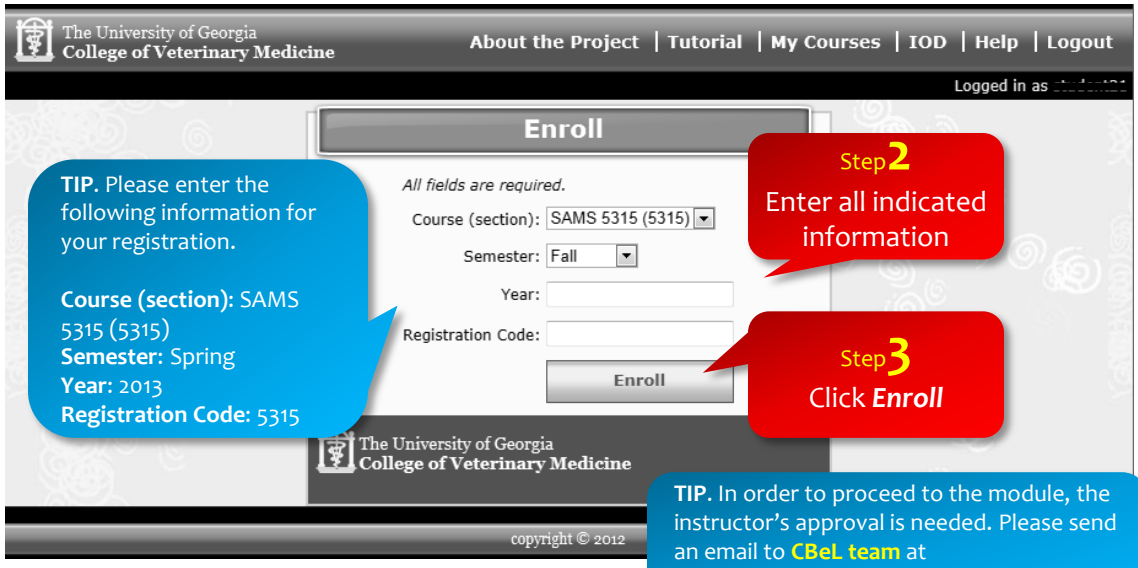
### How to use

- How to register
- How to log in/ log out
- **How to enroll in a module**
- How to explore the site

In order to study a learning module, you need to enroll in that module. Please follow the instructions in the figures.



**Step 1**  
Click **Enroll in another module**



**TIP.** Please enter the following information for your registration.  
  
**Course (section):** SAMS 5315 (5315)  
**Semester:** Spring  
**Year:** 2013  
**Registration Code:** 5315

**Step 2**  
Enter all indicated information

**Step 3**  
Click **Enroll**

**TIP.** In order to proceed to the module, the instructor's approval is needed. Please send an email to **CBeL team** at [help.cbcl@gmail.com](mailto:help.cbcl@gmail.com) and notify your enrollment.



## How to use this site: How to explore the site

### How to use

- How to register
- How to log in/ log off
- How to enroll in a module
- **How to explore the site**

To navigate, you must use the navigation bar, located at the top of the screen.



**About the Project** provides general information about this project.

**Tutorial** takes you back to this tutorial.

**Help** provides further assistance with the project, site, or module.

**Login** takes you to the login page.

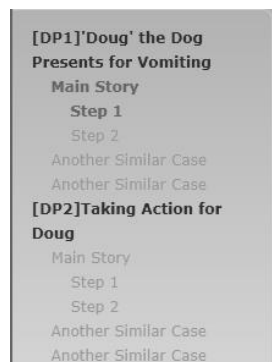
After logging into the site, you may find additional menus on the navigation bar.



**My Courses** takes you to the case study.

**IOD** provides access to a digital textbook that will be helpful for learning.

On the left side of the **My Courses** page is the sidebar. This helps you navigate within the topics and sections of the module itself, from one Decision Point or step to another.



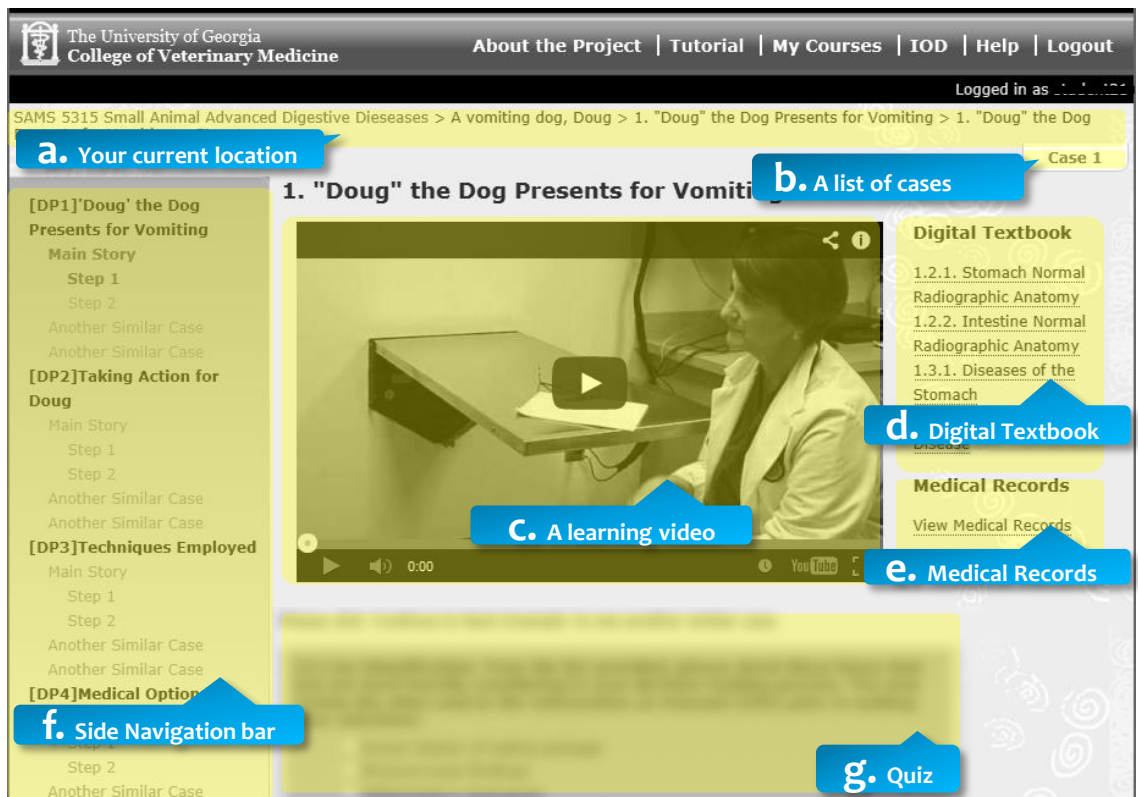
To navigate between stages and steps, simply click on the stage or step on the left side of the screen. Stages that you have not explored will be displayed in grey. You can revisit the stages you have previously viewed by clicking the stage.



## How to use this site: How to explore the site

### How to use

- How to register
- How to log in/ log off
- How to enroll in a module
- **How to explore the site**



#### a. Your current location

: The upper side of your learning screen tells your current location of the website. You may go back to the main page of **My Courses** by clicking the course title.

#### b. A list of cases

: The small button just below your current location tells you a list of cases in a learning module. If there is more than two cases in one learning module, you will see multiple buttons.

#### c. A learning video

: You shall watch a learning video. The videos in this learning website provide captions, video quality control, and a full screen function. Detailed information is available at page 9.

#### d. Digital Textbook

: Digital Textbook provides you just-in-time learning experience with key and concise information to help you solve medical problems.



## How to use this site: How to explore the site

### How to use

- How to register
- How to log in/ log off
- How to enroll in a module
- **How to explore the site**

The screenshot shows the website interface for SAMS 5315 Small Animal Advanced Digestive Diseases. The breadcrumb trail is: SAMS 5315 Small Animal Advanced Digestive Diseases > A vomiting dog, Doug > 1. "Doug" the Dog Presents for Vomiting > 1. "Doug" the Dog. The page title is "1. 'Doug' the Dog Presents for Vomiting".

Navigation elements are highlighted with callouts:

- a. Your current location:** Points to the breadcrumb trail.
- b. A list of cases:** Points to the "Case 1" link.
- c. A learning video:** Points to the video player showing a person in a lab coat.
- d. Digital Textbook:** Points to the "Digital Textbook" section with sub-topics like "1.2.1. Stomach Normal Radiographic Anatomy".
- e. Medical Records:** Points to the "Medical Records" section with a "View Medical Records" link.
- f. Side Navigation bar:** Points to the left sidebar menu with sections like "[DP1]'Doug' the Dog Presents for Vomiting", "[DP2]Taking Action for Doug", "[DP3]Techniques Employed", and "[DP4]Medical Options".
- g. Quiz:** Points to a blurred area at the bottom right.

### e. Medical Records

: Medical Records provides a patient's relevant medical data to help you identify a medical problem and generate solutions.

### f. Side navigation bar

: This helps you navigate within the topics and sections of the module itself, from one Decision Point or step to another. Please refer to more detailed information at page 6.

### g. Quiz

: The questions represent experts' reasoning process from identifying the problem situation described in Main Story to generate solutions. More information is available at page 13.

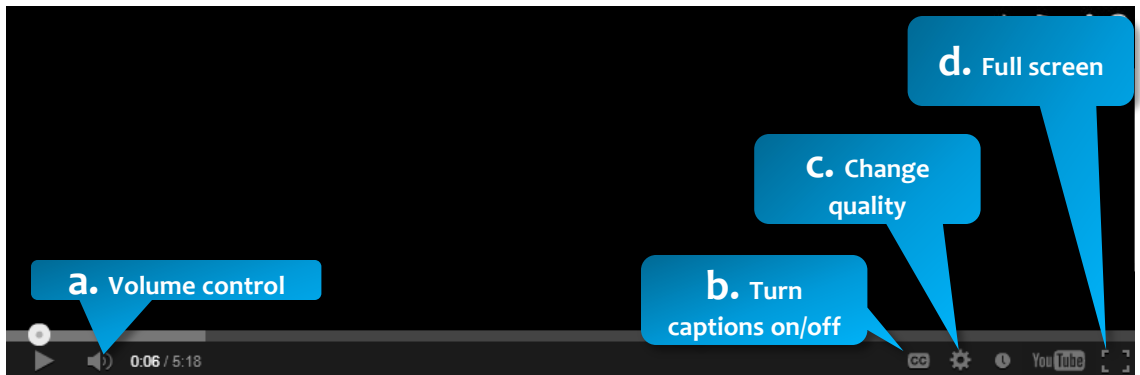




## How to use this site: How to explore the site

### How to use

- How to register
- How to log in/ log off
- How to enroll in a module
- **How to explore the site**



All the videos in this website are provided via Youtube.

#### a. Volume Control

: You can use Volume Control button to adjust the volume of a video.

#### b. Turn Captions On/Off

: If a video has captions, you can turn them on by clicking this button. To turn them off, click the button, then Turn Captions Off.

#### c. Change Quality

: The quality of all the videos in this website is on “Auto” and Youtube will automatically adapt the video quality based on a video player size. This button enables you to manually control the video quality.

#### d. Full Screen

: To switch to full screen, please click this button. To exit full screen mode, press Esc on your keyboard or click the Full screen icon again.



# How to study with this site: How to access a learning module

## How to study

- How to access a learning module
- Structure of the module
- Main Story (Step 1)
- Main Story (Step 2)
- Another Similar Case
- Test Story



## How to study with this site: Structure of the module

### How to study

- How to access a learning module
- **Structure of the module**
- Main Story (Step 1)
- Main Story (Step 2)
- Another Similar Case
- Test Story

One case is comprised of several Decision Points (DPs). One Decision Point includes the following four phases: Main Story (Step 1, Step 2), Another Similar Case, and Test Story.

### **Main Story**

: You shall learn how to apply your basic medical knowledge to a realistic case by exploring a case and experts' opinions regarding the case.

*Step 1: Analyzing the case and planning a course of action*

You shall analyze the case and plan a course of action based on your own analysis. Medical Records will provide you with additional patient data for your analysis. Digital Textbook will help your learning by providing related content knowledge.

*Step 2: Reviewing experts' opinions and revising your initial course of action*

Experts' opinions about the same case will be provided. Based on their reasoning process, you shall reflect on your initial course of action. You shall review Digital Textbook and Medical Records as needed.

### **Another Similar Case**

: Experts tell you another similar interesting story to expand your learning experience.

### **Test Story**

: You may test your clinical decision making skills by solving a test case.



## How to study with this site: Main Story (Step 1)

### How to study

- How to access a learning module
- Structure of the Module
- **Main Story (Step 1)**
- Main Story (Step 2)
- Another Similar Case
- Test Story

In the **Step 1** of **Main Story**, you shall view the case video, review Digital Textbook and Medical Records, and answer the following questions.

The screenshot shows the interface for the case '1. "Doug" the Dog Presents for Vomiting'. The top navigation bar includes 'About the Project | Tutorial | My Courses | IOD | Help | Logout' and a user login status 'Logged in as student...'. The breadcrumb trail is 'SAMS 5315 Small Animal Advanced Digestive Diseases > A vomiting dog, Doug > 1. "Doug" the Dog Presents for Vomiting > Step 1'. The main content area is titled '1. "Doug" the Dog Presents for Vomiting' and features a video player. A red callout bubble points to the video with the text 'Step 1 Watch this video'. A blue callout bubble points to the video player with the text 'TIP. Medical Records and Digital Textbook as needed.' To the right of the video is a 'Digital Textbook' section with links for '1.2.1. Stomach Normal Radiographic Anatomy', '1.2.2. Intestine Normal Radiographic Anatomy', '1.3.1. Diseases of the Stomach', and '1.3.2. Canine Pancreatic Disease'. Below the textbook is a 'Medical Records' section with a 'View Medical Records' link. The bottom of the page features a 'Quiz Area' with a 'Save' button and a 'Submit and Continue' button. A blue callout bubble points to the 'Save' button with the text 'TIP. If you click the save button, your response will be saved even though you leave the page.' A red callout bubble points to the 'Submit and Continue' button with the text 'Step 3 Click Submit and Continue to proceed the learning'. Another blue callout bubble points to the 'Submit and Continue' button with the text 'TIP. Once you click the Submit and Continue button, you may not submit new responses to the questions.'



## How to study with this site: Main Story (Step 1)

### How to study

- How to access a learning module
- Structure of the Module
- **Main Story (Step 1)**
- Main Story (Step 2)
- Another Similar Case
- Test Story

The questions represent experts' reasoning process from identifying the problem situation described in Main Story to generate solutions. You shall think like an expert by developing decision making skills through the expert reasoning process.

### ***Cue Identification***

Please identify key items that you think important in your decision-making process.

### ***Situation Assessment***

Please describe how you utilized the cues identified for making a decision.

### ***Set Goals***

Please set your goals for your course of action.

### ***Decision***

Please decide on your next action step for your patient and specify your decision.

## How to study with this site: Main Story (Step 2)

How to study

- How to access a learning module
- Structure of the Module
- Main Story (Step 1)
- **Main Story (Step 2)**
- Another Similar Case
- Test Story

In **Step 2** of **Main Story**, you shall watch multiple experts' opinion about the main story. Based on the experts' opinion, Digital Textbook, and Medical Records, you may revise your initial answers. Your initial answer will be automatically retrieved.

The screenshot shows the 'Main Story' interface for 'Doug' the dog. The top navigation bar includes 'About the Project | Tutorial | My Courses | IOD | Help | Logout'. The breadcrumb trail reads: 'SAMS 5315 Small Animal Advanced Digestive Diseases > A vomiting dog, Doug > 1. "Doug" the Dog Presents for Vomiting > 1. "Doug" the Dog Presents for Vomiting > Step 2'. The page is titled '1. "Doug" the Dog Presents for Vomiting' and is logged in as 'student'. A sidebar on the left lists various learning objectives (DP1-DP5) with sub-links for 'Main Story', 'Step 1', 'Step 2', and 'Another Similar Case'. The main content area features a video player for 'Step 1: View Experts' thoughts'. To the right of the video are sections for 'Digital Textbook' (with links to radiographic anatomy and diseases of the stomach) and 'Medical Records' (with a link to 'View Medical Records'). Below the video is an 'Experts' section titled 'Watch/read the experts' opinions.' It lists three experts: Kate E. Creevy (DVM, MS, DACVIM), Chad Schmiedt (DVM, DACVS), and MaryAnn Radlinsky (DVM, MS, DACVS). Each expert has links for 'My Thoughts' and 'Read Transcript'. At the bottom, there is a 'Quiz Area' with 'Save' and 'Submit and Continue' buttons. A copyright notice for 2012 is visible at the very bottom.

**Step 1**  
View Experts' thoughts

**Step 2**  
Review *Digital Textbook*

**Step 3**  
View *Medical Records*

**TIP.** You may watch an expert's video by clicking **My Thoughts**. You may read an expert's opinion by clicking **Read Transcript**. Clicking **an expert's name** enables you to view the expert's introduction video.

**Step 2**  
Revise your initial answers

**TIP.** Your initial answers will be automatically retrieved.

**Step 3**  
Click **Submit and Continue** to proceed learning

## How to study with this site: Another Similar Case

### How to study

- How to access a learning module
- Structure of the Module
- Main Story (Step 1)
- Main Story (Step 2)
- **Another Similar Case**
- Test Story

In the stage of *Another Similar Case*, experts tell you similar stories to the *Main Story* you learned.

The screenshot shows a web interface for 'The University of Georgia College of Veterinary Medicine'. The page title is 'SAMS 5315 Small Animal Advanced...'. The breadcrumb trail is 'dog, Doug > 1. "Doug" the Dog Presents for Vomiting > Another Similar Case Case 1'. The page is logged in as 'User'. The main content area features a video player showing a man in a white lab coat holding a small dog. Below the video, there is a text prompt: 'Please click "Continue to Next Example" to see another similar case.' and a message: 'There are no questions defined.' At the bottom, there are 'Save' and 'Submit and Continue' buttons. The footer contains 'copyright © 2012'. Three red callout boxes provide instructions: 'Step 1 View another similar case' points to the video player; 'Step 2 Click Submit and Continue to see another similar case' points to the 'Submit and Continue' button; and a blue callout box says 'TIP. There are no questions for Another Similar Case.' pointing to the 'There are no questions defined.' message. A blue callout box on the right says 'TIP. You may read a transcript of the video.' pointing to the 'View Video Transcript' link.





## How to study with this site: Test Story

### How to study

- How to access a learning module
- Structure of the Module
- Main Story (Step 1)
- Main Story (Step 2)
- Another Similar Case
- Test Story

A Test Story will be given using an external URL. Please follow the instructions indicated on the screen.

After completing the Test Story, please proceed by clicking *Submit and Continue*. You will be guided to another Decision Point.

The screenshot shows a web interface for 'The University of Georgia College of Veterinary Medicine'. The page title is 'SAMS 5315 Small Animal Advanced Digestive Diseases > A vomiting dog, Doug > 1. "Doug" the Dog Presents for Vomiting > Test Story'. The user is logged in as 'student21'. A sidebar on the left shows a navigation menu with items like '[DP1] Doug' the Dog Presents for Vomiting', '[DP2] Taking Action for Doug', and '[DP4] Medical Options'. The main content area features a video player with the text: 'A Test Story will be given using a URL. Please visit the URL in the quiz area.' Below the video, there is a text box with instructions: '[1-test] A Test Story will be given using a URL. Please copy in a new window. Once you submit the Test Story, please click "Submit and Continue" button to proceed learning.' and a URL: 'https://qtrial.qualtrics.com/SE/?SID=SV\_d4FSdYjfq0n...'. At the bottom, there are 'Save' and 'Submit and Continue' buttons. Two red callout boxes provide instructions: 'Step 1 Please follow the instruction' points to the video player, and 'Step 2 Click Submit and Continue to proceed learning' points to the 'Submit and Continue' button.



**Contact Information for Further Questions**

Case-Based e-Learning

[help.cbhel@gmail.com](mailto:help.cbhel@gmail.com)

<http://elearning.coe.uga.edu/>

