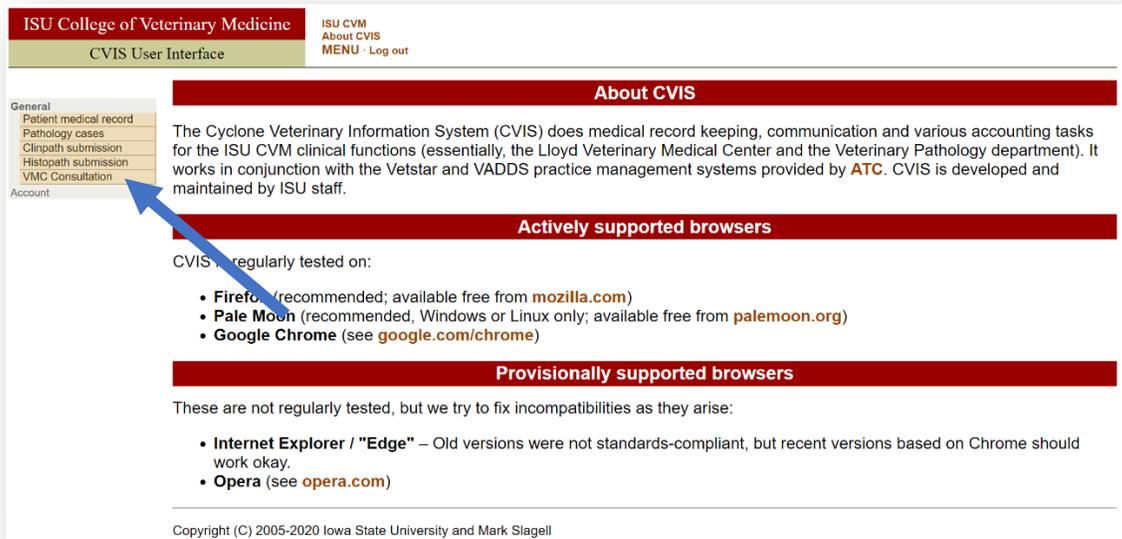


How to Request ISU LVMC Service Consultations using the CVIS Portal

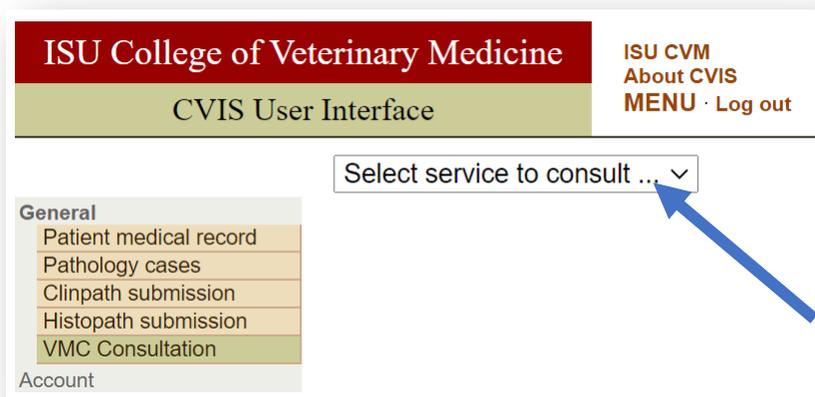
Questions: email vmc-services@iastate.edu

1. Navigate to CVIS login page (<https://clinic-db.cvm.iastate.edu/cvis/>) and sign in using your clinic's user credentials (account should begin with "C"). If your clinic does not have a CVIS account, please see separate instruction sheet titled "How to Request rDVM Access to CVIS."
2. Click on "VMC Consultation."



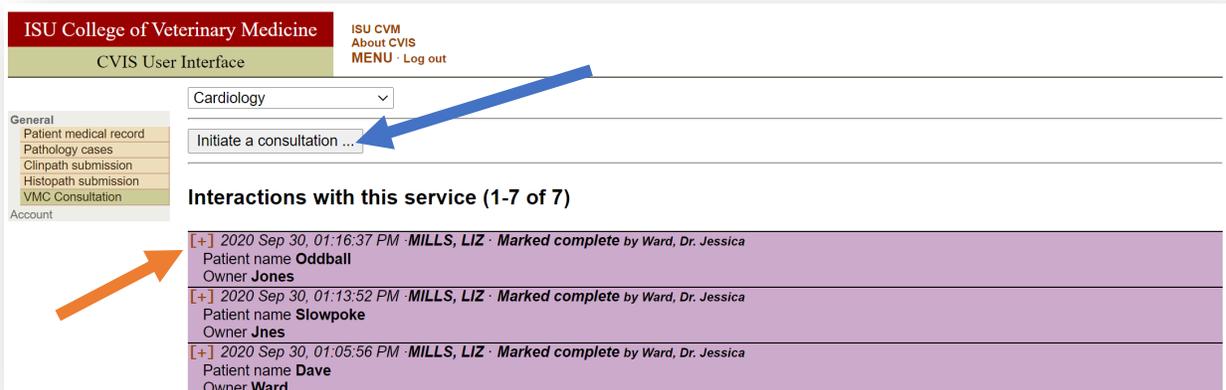
The screenshot shows the CVIS User Interface. At the top left, it says "ISU College of Veterinary Medicine" and "CVIS User Interface". At the top right, it says "ISU CVM About CVIS MENU · Log out". Below this is a navigation menu with "General", "Patient medical record", "Pathology cases", "Clinpath submission", "Histopath submission", "VMC Consultation", and "Account". The "VMC Consultation" item is highlighted. To the right of the menu is the "About CVIS" section, which contains text describing the system and lists "Actively supported browsers" (Firefox, Pale Moon, Google Chrome) and "Provisionally supported browsers" (Internet Explorer / "Edge", Opera). A blue arrow points from the "VMC Consultation" menu item to the "About CVIS" section.

3. From the dropdown menu "Select service to consult," choose the intended service.



The screenshot shows the CVIS User Interface. At the top left, it says "ISU College of Veterinary Medicine" and "CVIS User Interface". At the top right, it says "ISU CVM About CVIS MENU · Log out". Below this is a navigation menu with "General", "Patient medical record", "Pathology cases", "Clinpath submission", "Histopath submission", "VMC Consultation", and "Account". The "VMC Consultation" item is highlighted. To the right of the menu is a dropdown menu labeled "Select service to consult ...". A blue arrow points to the dropdown menu.

- Click "Initiate a consultation" (blue arrow) Note: this page also displays a history of recent consultations with this service (shaded in purple). To expand and view these consults, click [+] (orange arrow).



- Fill out the consultation form with as much detail as possible. Note that ALL fields are required for submission, but you can enter "unknown" or "n/a" as needed. All relevant images (thoracic radiographs, ECGs, bloodwork, other) should be attached using the "Choose files" button at the bottom of the consult form (blue arrow). When the form is completed, click "Send consultation request" (orange arrow) to submit. Pictured below is the Cardiology form, each Service form may be more or less detailed.

The screenshot displays the 'Cardiology' consultation form. It includes sections for 'Patient information' (species, sex, age, weight, breed, name, owner's name), 'Consultation information' (requesting clinician, consultation type), and 'Case information' (history, clinical signs, cardiovascular exam findings). A section for 'Diagnostic tests already performed' includes checkboxes for Blood pressure, Thoracic radiographs, Electrocardiogram (ECG), and Lab work, each with a 'result' field. There are also fields for 'Medications', 'Diet', and 'Your expectations and specific questions'. At the bottom, there is a note: '** Note: all of the above fields are required, although none, unknown, and N/A can be used where appropriate.' Below the note is a file upload section for pictures and documents, with a 'Choose Files' button and 'No file chosen' text. At the very bottom, there are two buttons: 'Send consultation request' (highlighted with an orange arrow) and 'Cancel'.

- If the form contains a "Consultation type", this allows you to indicate the urgency of the consultation for a new patient (timeframe in which you require a response) or whether this is a follow-up question about an existing ISU LVMC patient.

ISU College of Veterinary Medicine
CVIS User Interface

Cardiology

General

Pathology cases
Clinopath submission
Histopath submission
VMC Consultation

Account

Patient information
species: [dropdown] sex: [dropdown] age: [input] weight: [input] kg lb
Breed: [input]
Name: [input]
Owner's name: [input]

Consultation information
Name of requesting clinician: [input]
consultation type: [dropdown]
Consult - patient not previously seen by ISU Cardiology (response within 3 business days)
Urgent consult - patient not previously seen by ISU Cardiology (same-day response by 9pm if submitted by 4pm)
Followup on patient previously seen by ISU Cardiology

Diagnostic tests already performed
Blood pressure Y N result: [input]
Thoracic radiographs Y N If yes, please attach images below, or email DICOM links to cardiology@iastate.edu
Electrocardiogram (ECG) Y N If yes, please attach images below
Lab work Y N If yes, please attach relevant reports below

- After submission, your consult request (and any attachments) will appear in both your CVIS consult dashboard and will be sent to the ISU LVMC Service. The service will review the information and may respond with clarification questions or requests for additional information. Responses from the ISU Service will appear on your CVIS consult dashboard (blue arrow) AND will be emailed to the email address on file for your account.

[+] 2020 Sep 23, 12:19:32 PM - MILLS, LIZ

Patient name **Princess**
Species **canine** · breed **CKCS** · sex **female spayed** · age **12** · weight **10 kg**
Owner **Smith**
Requesting clinician **Dr. Ward's Alter Ego**
Case information *****THIS IS ONLY A TEST*****
Presented last week for increased cough. Started on furosemide, pimobendan, and enalapril for suspected CHF. Cough has not improved and now dog isn't eating.
BP taken **N**
thoracic radiographs **Y** · ECG **Y** · lab work **N**
Medications **Furosemide 12.5mg PO q12hr**
Pimobendan 2.5mg PO q12hr
Enalapril 5mg PO q12hr
Diet **Zignature Kangaroo & Lentil**
Expectations, questions **Should we increase CHF medications? Additional diagnostic testing suggested?**

 **Consultation file**
Uploaded: 2020 Sep 23 by MILLS, LIZ
[NOT VIEWABLE IN EXTERNAL EMR]

2020 Sep 23, 12:19:32 PM - MILLS, LIZ

 **Consultation file**
Uploaded: 2020 Sep 23 by MILLS, LIZ
[NOT VIEWABLE IN EXTERNAL EMR]

2020 Sep 23, 12:19:32 PM - MILLS, LIZ

 **Consultation file**
Uploaded: 2020 Sep 23 by MILLS, LIZ
[NOT VIEWABLE IN EXTERNAL EMR]

2020 Sep 23, 12:22:05 PM - Ward, Dr. Jessica

Thanks Dr. Ward's Alter Ego for this consult request! Can you tell us more about the physical examination findings at the time of suspected CHF diagnosis, including respiratory rate/effort, heart rate, and murmur characteristics?

- You can respond back to any questions from the ISU Service using the “Add a further message and/or files” button (orange arrow). The final consultation report from the ISU Service will appear on your CVIS consult dashboard (blue arrow) AND will be emailed to the email address on file for your account.

2020 Sep 23, 12:24:33 PM - **MILLS, LIZ**
 Respiratory rate was 36bpm. Heart rate was not recorded but did not see fast. I couldn't auscult a heart murmur. I am attaching one more radiograph view that I forgot to attach last time.



Consultation file
 Uploaded: 2020 Sep 23 by MILLS, LIZ
 [NOT VIEWABLE IN EXTERNAL EMR]

2020 Sep 23, 12:32:17 PM - **Ward, Dr. Jessica**
 Thanks Dr. Ward's Alter Ego for that additional information!

Based on the presenting complaint, physical exam findings, and diagnostic test results, congestive heart failure would be an unlikely differential diagnosis for this patient's clinical sign (cough). Lack of a heart murmur in an older small breed dog essentially rules out clinically significant degenerative mitral valve disease, and this patient's normal respiratory rate and normal heart rate are not consistent with the clinical presentation of CHF. Thoracic radiographs show a normal cardiac silhouette with no evidence of pulmonary edema - rather, the pulmonary pattern (middle lung lobe primarily affected by interstitial/alveolar pattern) is most consistent with aspiration pneumonia.

I am concerned that this patient may now also be experiencing side effects of the CHF medications (inappetence). I would recommend discontinuing all CHF medications and performing bloodwork (minimum renal values and electrolytes) to screen for azotemia or other side effects of CHF medications, and treating this patient for its primary respiratory disease.

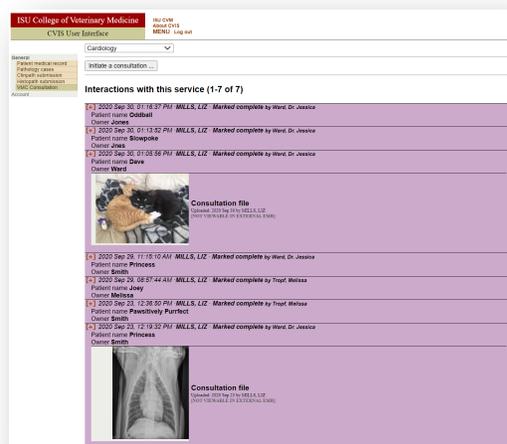
We should also talk about the Zignature diet. Even though this patient has no current evidence of cardiac disease, the owner should be aware of the recent link between dilated cardiomyopathy phenotype and boutique, exotic, and grain-free diets. I am attaching an editorial about this phenomenon and you can read more about the FDA's investigation here: <https://www.fda.gov/animal-veterinary/outbreaks-and-advisories/fda-investigation-potential-link-between-certain-diets-and-canine-dilated-cardiomyopathy>



Cardiology consultation
 Uploaded: 2020 Sep 23 by Ward, Dr. Jessica
 [NOT VIEWABLE IN EXTERNAL EMR]

Add a further message and/or files

- Consultations will be “resolved” 24 hours after the consultation report is submitted by the ISU Service (unless you submit further follow-up questions through the dashboard during that timeframe). “Resolved” consults become a darker purple color and are collapsed on your dashboard (as discussed in Step 4). Prior consults remain available for later viewing, but cannot be edited further. If you need further information after the consult is closed, please email vmc-services@iastate.edu with the patient/client name so we can re-open the thread of submission for additional questions.



ISU College of Veterinary Medicine
 CVIS User Interface

Interactions with this service (1-7 of 7)

- 2020 Sep 24 07:14:37 PM - MILLS, LIZ - Marked complete by Ward, Dr. Jessica
 Patient name: Cobball
 Client name: [redacted]
- 2020 Sep 26 01:13:52 PM - MILLS, LIZ - Marked complete by Ward, Dr. Jessica
 Patient name: Shampine
 Client name: [redacted]
- 2020 Sep 26 07:02:36 PM - MILLS, LIZ - Marked complete by Ward, Dr. Jessica
 Patient name: Dave
 Client name: Ward
- 2020 Sep 29 11:15:10 AM - MILLS, LIZ - Marked complete by Ward, Dr. Jessica
 Patient name: Princess
 Client name: Smith
- 2020 Sep 29 08:57:44 AM - MILLS, LIZ - Marked complete by Traci, Melissa
 Patient name: Joey
 Client name: Melissa
- 2020 Sep 23 12:30:50 PM - MILLS, LIZ - Marked complete by Traci, Melissa
 Patient name: Peacefully Partied
 Client name: Smith
- 2020 Sep 23 12:18:32 PM - MILLS, LIZ - Marked complete by Ward, Dr. Jessica
 Patient name: Princess
 Client name: Smith