



Vet Pro ECG Viewer

VETERINARY ECG ANALYSIS SOFTWARE
User Manual



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1. Introduction to Vet Pro ECG Viewer

Vet Pro ECG Viewer is a web-based veterinary ECG analysis solution designed to efficiently analyze and manage veterinary electrocardiogram (ECG) data.

The system analyzes ECG recordings acquired at veterinary hospitals using the Refit Patch (Q6/Q1) devices and the Quet ECG App, enabling ECG reviewers to generate professional ECG interpretation reports for veterinary hospitals.

Since no software installation is required, Vet Pro ECG Viewer can be accessed from any Internet-connected computer through a standard web browser, allowing users to perform ECG analysis anytime and anywhere.

2. Preparations Before Use

Before using Vet Pro ECG Viewer, an ECG Reporting Center account must be registered on the Veterinary ECG Reporting Service Server (app.quetecg.com).

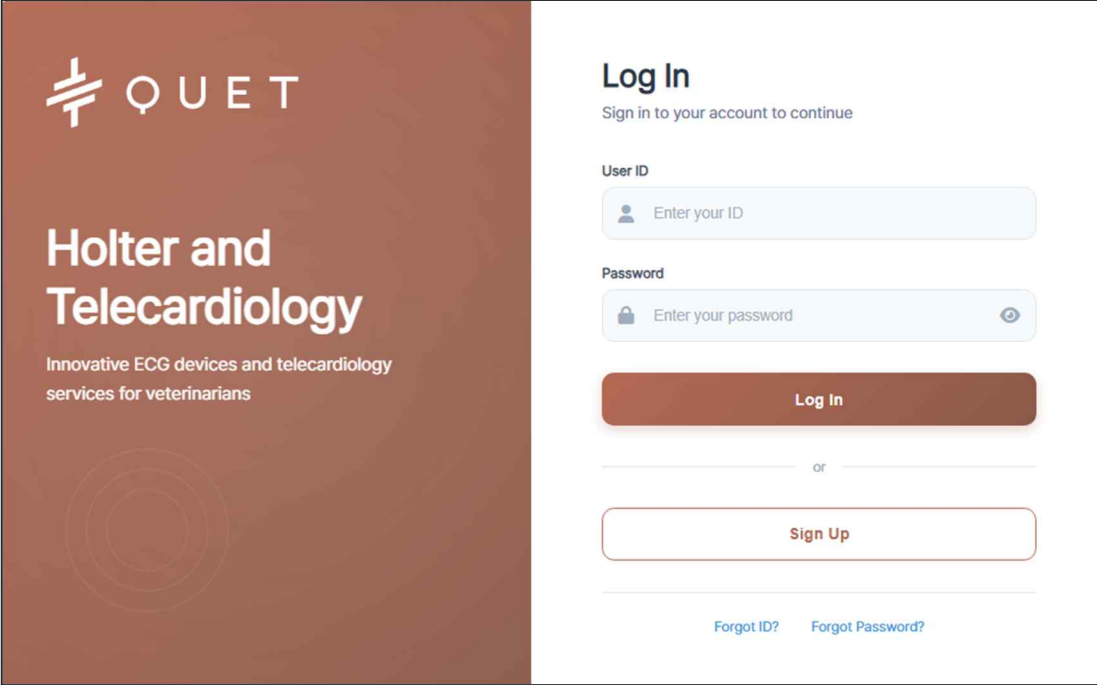
If you do not have an ECG Reporting Center account, please create one before using the system.

3. Logging in to the ECG Reporting Service Server

- Open a web browser and navigate to the Quet ECG website:

<https://app.quetecg.com>

- Log in using your ECG Reporting Center account.



The screenshot displays the login interface for the Quet ECG Reporting Service Server. On the left, a dark brown sidebar contains the Quet logo (a stylized ECG line) and the text 'QUET', 'Holter and Telecardiology', and 'Innovative ECG devices and telecardiology services for veterinarians'. The main white area is titled 'Log In' with the subtitle 'Sign in to your account to continue'. It features two input fields: 'User ID' with a placeholder 'Enter your ID' and a user icon, and 'Password' with a placeholder 'Enter your password', a lock icon, and a toggle eye icon. Below these is a prominent brown 'Log In' button. A horizontal line with the word 'or' in the center separates the login section from the 'Sign Up' button, which is outlined in brown. At the bottom, there are two links: 'Forgot ID?' and 'Forgot Password?'.

- If you do not have an account, click Sign Up to create an ECG Reporting Center account.

Register

☐ Veterinarian

☒ ECG reporting center

ACCOUNT

ID *

solmicenter

Password *

.....

- After successfully logging in, you can begin ECG interpretation.

Interpreting a New ECG Request

To analyze a newly submitted ECG from a veterinary hospital:

- Select the requested ECG from the Pending Analysis tab.
- Click Analysis to start the ECG interpretation process.

ECG reporting center ID : solmicenter

[My Page](#)
[Log Out](#)

Pending Analysis
Available Reports

Patient Name

Finish(start)

Finish(end)

Search

Reset

Veterinarian	Owner	Patient ID	Patient	Species	Breed	Age	Sex	Weight(kg)	Notes	Device ID	Start	Finish	Duration	ECG Data	CSV Data	Analysis	Delete
Solmitech	Solmitech	1234567	Hector	Dog	German Sh...	2y 5m	Male	30	View	SHCUBA1384	17-04-2026 16:4...	17-04-2026 16:5...	0:02:00	Download	Download	Analysis	
Solmitech	Solmitech	1234567	Bobby	Cat	Great Dane	3y 8m	Male	50	View	SHCUBA1384	17-04-2026 16:4...	17-04-2026 16:4...	0:02:00	Download	Download	Analysis	
Michela ...	f	gr	m	Horse	ho	2y 5m	Male	3	View	SHCUB885	17-04-2026 11:2...	17-04-2026 11:2...	0:00:02	Download	Download	Analysis	
SARA CA...	pasil	toby	toby	Dog	golden	13y 0m	Male	42	View	SHCUB-14...	17-04-2026 10:4...	17-04-2026 10:4...	0:02:00	Download	Download	Analysis	
DofLissa...	Cademir...	Sam	Sam	Dog	CKCS	10y 0m	Male	0	View	SHCUB1796	16-04-2026 09:4...	16-04-2026 09:4...	0:02:00	Download	Download	Analysis	
DofLissa...	Lukashe...	Charlie	Charlie	Dog	barboncino	12y 0m	Male	0	View	SHCUB1796	16-04-2026 09:2...	16-04-2026 09:2...	0:02:00	Download	Download	Analysis	
Domenic...	Montefis...	2445	Rocco	Cat	Europeo	15y 0m	Male	0	View	SHCUB868	16-04-2026 09:0...	16-04-2026 09:1...	0:02:01	Download	Download	Analysis	
Domenic...	Pastore	9876	condor z	Horse	Zangher	13y 0m	Male	650	View	SHCUB868	16-04-2026 08:5...	16-04-2026 09:0...	0:02:00	Download	Download	Analysis	

Reanalyzing an Existing Report

To revise and resend an ECG interpretation report that has already been issued:

- Open the Available Reports tab.
- Select the examination to be revised.
- Click Reanalysis.

ECG reporting center ID : solmicenter

My Page Log Out

Pending Analysis Available Reports

Patient Name: Report Upload(start): mm/dd/yyyy Report Upload(end): mm/dd/yyyy

Search Reset

Veterinarian	Owner	Patient ID	Patient	Species	Breed	Age	Sex	Weight(Kg)	Notes	Device ID	Start	Finish	Duration	ECG Data	CSV Data	Report	Report Upload	Reanalysis	Report Delete	
Solmitech	sol	p12	it	Dog	no	4y 4m	Male	4		View	SHCUSA...	27-04-2026 1...	27-04-2026 1...	0:00:30	Download	Download	View	28-04-2026 1...	Reanalysis	
Solmitech	c2	p2	test2	Cat	s2	2y 3m	Fe...	4		View	SHCUSA...	06-04-2026 1...	06-04-2026 1...	0:00:30	Download	Download	View	28-04-2026 1...	Reanalysis	
Riccardo Bo...	Duro Coroni	Oreste1	Oreste	Dog	Labrador	12y 6m	Male	30		View	SHC-US...	24-04-2026 1...	24-04-2026 1...	0:00:30	Download	Download	View	24-04-2026 1...	Reanalysis	
Solmitech	salmi	p1	it1	Dog	no	6y 6m	Male	6		View	SHCUSA...	24-04-2026 1...	24-04-2026 1...	0:00:30	Download	Download	View	24-04-2026 1...	Reanalysis	
Dr Jordi Col...	Williams	10895...	Bea	Dog	Springer ...	10y 0m	Fe...	18		View	SHCUB1...	21-04-2026 1...	21-04-2026 1...	0:04:59	Download	Download	View	22-04-2026 1...	Reanalysis	
Dr Jordi Col...	Spooner	11014...	benji spo...	Dog	shi-tzu c...	10y 0m	Male	8		View	SHCUB1...	20-04-2026 1...	20-04-2026 1...	0:05:00	Download	Download	View	21-04-2026 1...	Reanalysis	

Automatic Recovery of Analysis Data

If the web browser is unexpectedly closed while ECG interpretation is in progress, the current analysis is automatically saved to the server as a temporary file.

When you log in again, the system detects the temporary file and prompts you to either continue the previous analysis or start a new one.

You may choose one of the following options:

- Resume the previous analysis from the temporary file.
- Discard the temporary file and begin a new ECG interpretation.



4. Screen Layout

The main screen of Vet Pro ECG Viewer consists of the following components. Each component provides specific functions for ECG analysis, patient information management, and report generation.



4.1. General Information

- General information for the recorded ECG data is displayed.
- The heart rate (BPM) shown in the General Information panel represents the heart rate of the peak currently positioned at the center of the ECG display. As the ECG waveform is scrolled left or right, the displayed heart rate (BPM) is updated accordingly.

4.2. Control Panel

The Control Panel provides the following functions:

- Re-detecting ECG peaks
- Adjusting the ECG display gain and sweep speed
- Showing or hiding individual ECG channel waveforms
- Measuring peak intervals

4.3. BPM Trend Chart

- The BPM Trend Chart displays the trend of the patient's heart rate throughout the ECG recording period.

4.4. Main ECG Chart

- The Main ECG Chart provides a detailed view of the complete ECG waveform

4.5. Analysis Tools

- The Analysis Tools panel provides advanced analysis functions for preparing the ECG Interpretation Report.
- The following analysis functions are available:

- Abnormal RRI

Review the list of abnormal RR intervals (R-to-R intervals).
- Events

Review Patient Events and add interpretation comments.

Add Peak Events and associated comments.
- Lead

Analyze the QRS Complex.

Calculate the Mean Electrical Axis (MEA).
- Data Validation

Review the Minimum Heart Rate (Min HR).

Review the Maximum Heart Rate (Max HR).

Review the RRI List.
- Patient Information

Review and edit patient information.

4.6. Report

- The Report panel displays the contents of the ECG Interpretation Report that is being prepared or has been completed.
- The completed ECG Interpretation Report can be submitted to the veterinary hospital.

4.7. Logo

- Click the logo to return from the ECG Analysis page to the main page of the ECG Reviewer account.

5. ECG Analysis Workflow

The following workflow is recommended for ECG analysis:

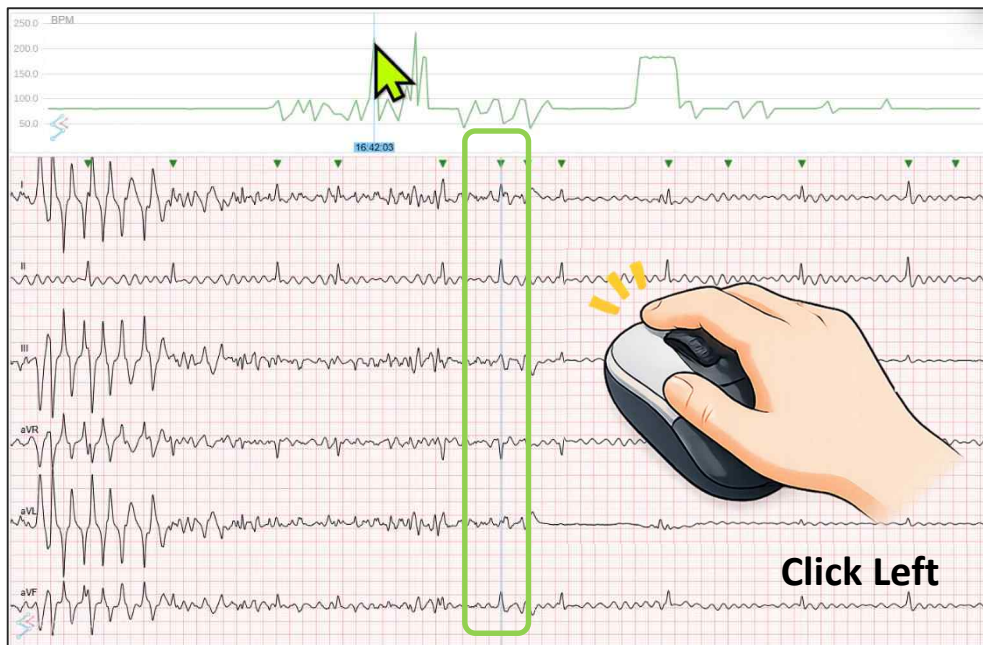
- Review the entire ECG recording.
 - Re-detect ECG peaks if necessary.
- Review abnormal RRI segments.
 - Add or remove peaks as required.
- Validate the ECG data.
 - Remove invalid maximum and minimum heart rate values.
 - Remove invalid RR intervals (RRIs), if necessary.
- Create events.

- Add Peak Events.
- Add Patient Events.
- Perform Lead Analysis.
 - Analyze the QRS Complex.
 - Calculate the Mean Electrical Axis (MEA).
- Prepare the ECG Interpretation Report.

6. Operating Instructions

6.1. BPM Trend Chart

- The BPM Trend Chart displays the patient's heart rate (BPM) throughout the ECG recording, from the beginning to the end of the recording, in chronological order.
- Click the desired location on the BPM Trend Chart to select a specific time point. The selected position is indicated by a light blue vertical line. The Main ECG Chart automatically synchronizes with the selected time, allowing you to review the corresponding ECG waveform.



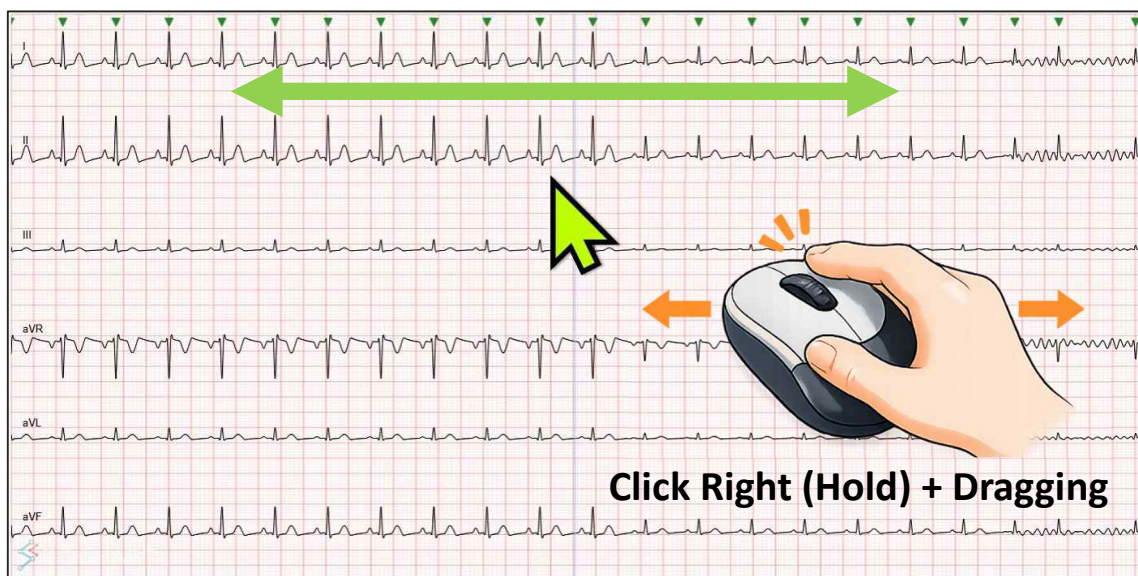
6.2. Main ECG Chart

- The Main ECG Chart provides a detailed view of the ECG waveforms for all channels.
- The light blue vertical line at the center of the Main ECG Chart indicates the currently selected position and serves as a reference point in the following situations:
 - It indicates the time point selected in the BPM Trend Chart.
 - When an item is selected in the Analysis Tools (Abnormal RRI, Events, or Data Validation), the corresponding location is automatically displayed at the center of the Main ECG Chart.

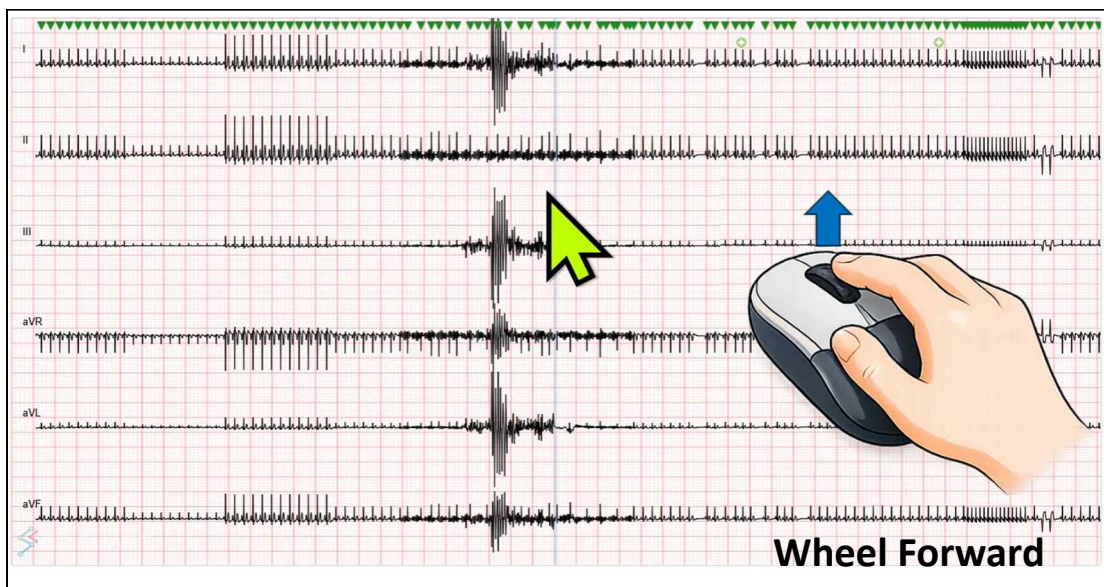
- When using the Add Peak function, it indicates the location where the new peak will be added.



- Position the pointer over the Main ECG Chart, then click and hold the right mouse button while dragging left or right to scroll the ECG waveform horizontally.



- Position the pointer over the Main ECG Chart, then rotate the mouse wheel forward or backward to zoom in or out horizontally on the displayed ECG waveform.



- The mouse wheel allows you to quickly navigate long-duration ECG recordings (e.g., 2-minute or 5-minute recordings) by zooming out to view the entire waveform on a single screen. You can then rapidly navigate to the area of interest and zoom in for detailed analysis.
- Some web browsers support page zooming when the mouse wheel is rotated while holding down the Ctrl key. The use of this browser feature is not recommended, as it may affect the accurate display and review of ECG data.
- For accurate ECG waveform display and analysis, it is recommended that the web browser zoom level remain set to 100% at all times.

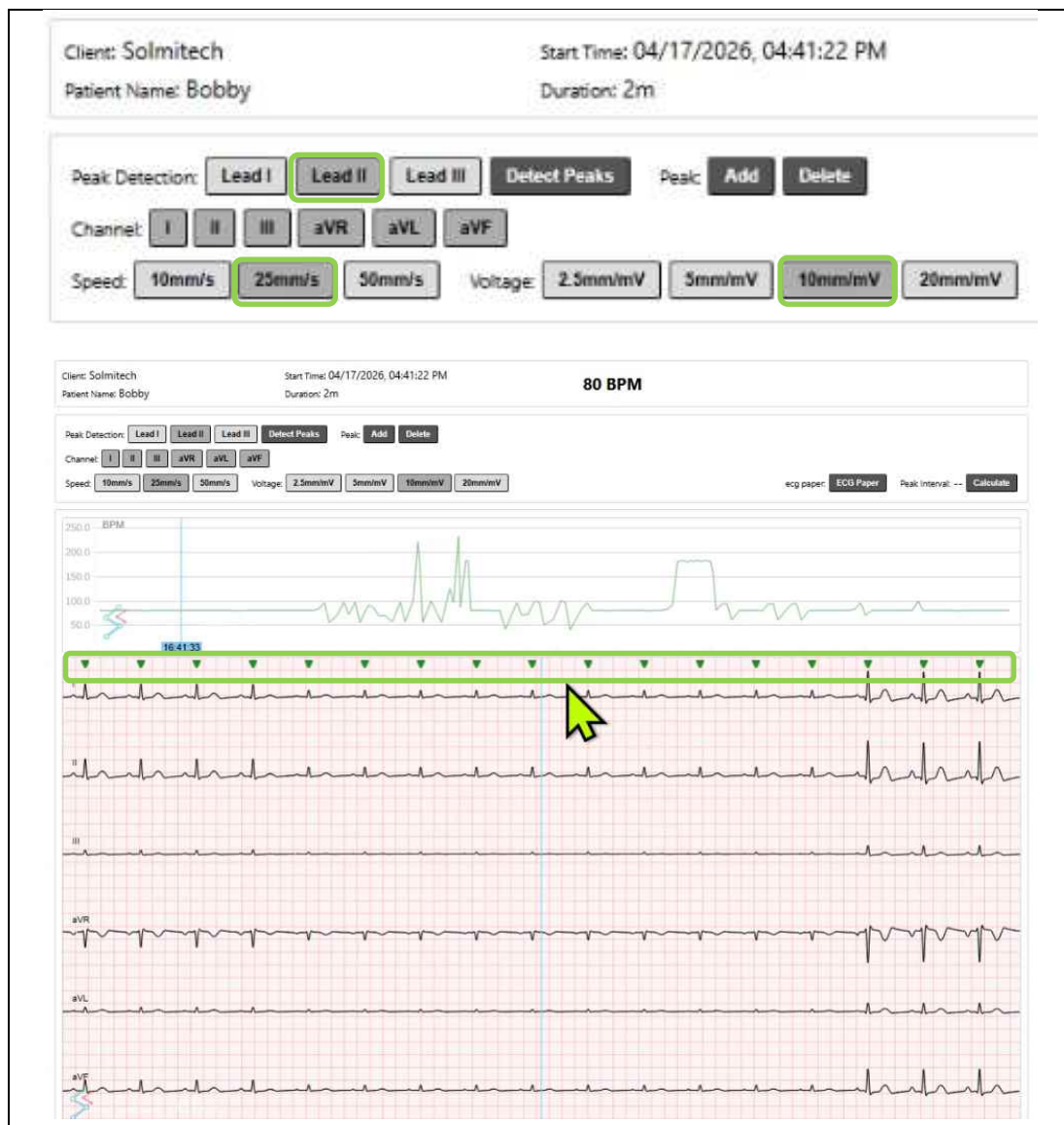
- Various icons may appear at the top of the Main ECG Chart. Refer to the table below for the description of each icon and its function.

	Peak Indicates the R peak (R-wave) automatically detected when the ECG recording is loaded.
	Selected Peak Indicates the peak currently selected for peak deletion or RR interval measurement.
	QRS Peak QRS Complex Indicates the peak selected for QRS Complex analysis.
	MEA Peak Indicates the peak selected for Mean Electrical Axis (MEA) analysis.
	Peak Event Indicates that the attending veterinarian has requested a review after observing an abnormal clinical event during the ECG recording.
	Patient Event Indicates that the ECG signal was disconnected during the recording and no ECG data were received during this period.
	Disconnect Indicates that the ECG signal connection was restored and ECG data acquisition resumed.
	Connect Indicates that the ECG signal connection was restored and ECG data acquisition resumed.

7. Control Panel

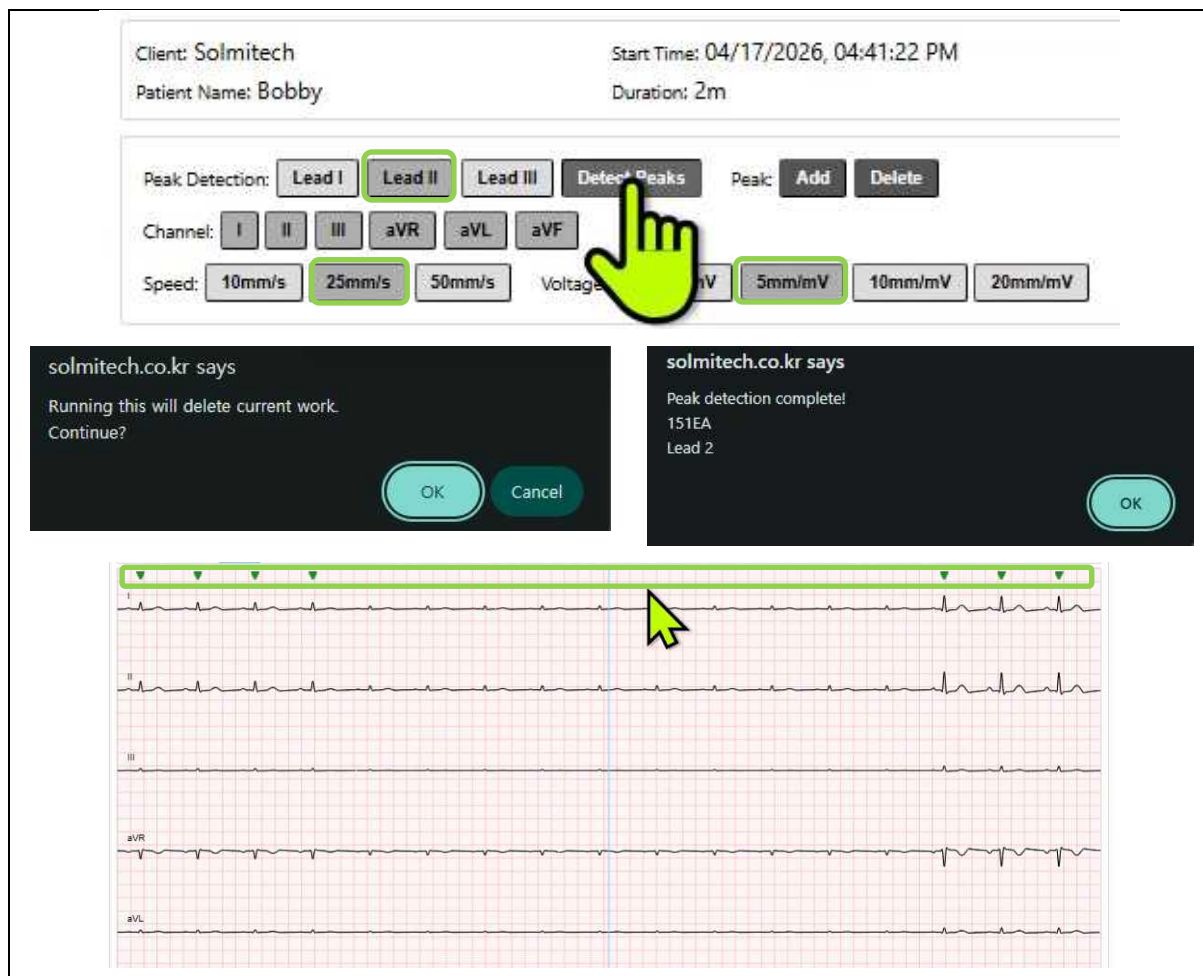
7.1. Peak Detection

- When an ECG recording is loaded, the system automatically detects R peaks (R-wave peaks).
- The detected R peaks are displayed as green inverted triangle markers(▼) at the top of the Main ECG Chart.
- The default peak detection settings are as follows:
 - Lead: II
 - ECG Gain: 10 mm/mV
 - Sweep Speed: 25 mm/s



Default settings (Lead II, 10 mm/mV, 25 mm/s)

- If necessary, you can re-detect R peaks using different lead, ECG gain, and sweep speed settings.
 - Lead: Select Lead I, Lead II, or Lead III.
 - ECG Gain: Select 2.5, 5, 10, or 20 mm/mV.
 - Increasing the ECG gain increases the displayed waveform amplitude, while decreasing the ECG gain reduces the displayed waveform amplitude.
 - Sweep Speed: Select 10, 25, or 50 mm/s.
 - Increasing the sweep speed expands the waveform horizontally, while decreasing the sweep speed compresses the waveform horizontally.
- After selecting the desired lead, ECG gain, and sweep speed for peak detection, select Detect Peaks.
- When the confirmation dialog box appears, select OK to proceed with peak re-detection.
- When the Peak Detection Results dialog box appears, select OK to complete the operation.



ECG Gain Change (Lead II, 5mm/mV, 25 mm/sec)



ECG Gain Change (Lead II, 2.5mm/mV, 25 mm/sec)

Important

- ✂ For small animals, such as cats, or when the ECG signal amplitude is very low, increase the ECG gain (e.g., to 20 mm/mV) to amplify the waveform before re-detecting the R peaks.
- ✂ Proceed with ECG analysis only after confirming that the R peaks have been detected correctly and no further peak re-detection is required.
- ✂ Re-detecting R peaks during ECG analysis will reset all analysis results and annotations generated up to that point. Carefully consider whether peak re-detection is necessary before proceeding.

7.2. Channel

- The Channel function allows you to hide or display the ECG waveform of individual leads shown in the Main ECG Chart.
- When an ECG recording is loaded, the waveforms for all leads are displayed by default.
- Select a channel button to hide the corresponding waveform (Off). Select the button again to display the waveform (On).
- To improve analysis efficiency, it is recommended to hide waveforms from leads that contain excessive noise or are not required for the current analysis.



All ECG Channels (6 Leads) Displayed

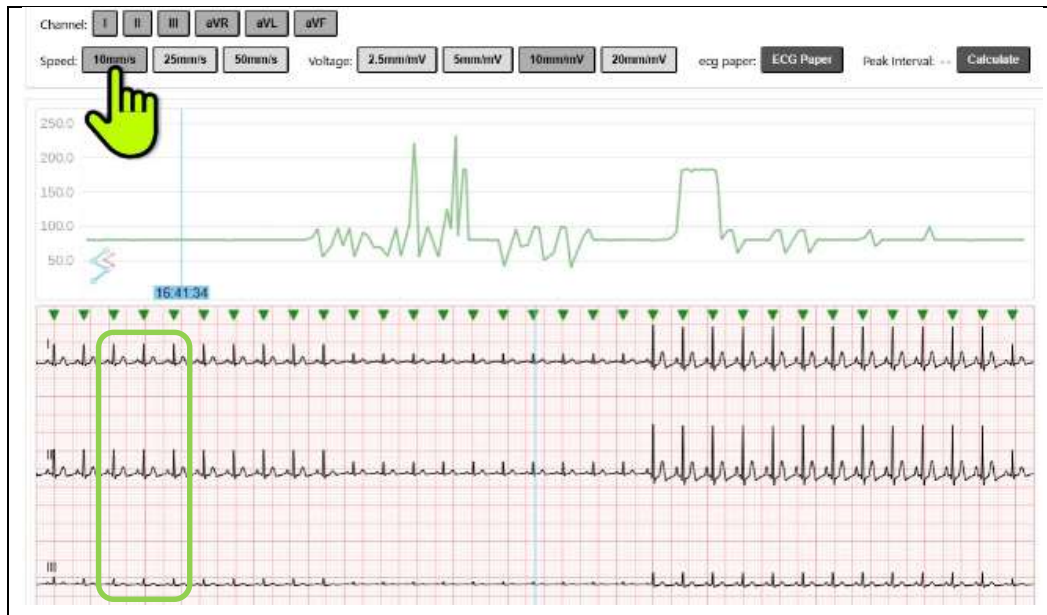


Hiding Selected Lead (Lead I)

7.3. Sweep Speed

- The Sweep Speed function allows you to adjust the display speed of the ECG waveform shown in the Main ECG Chart.
- The default sweep speed is 25 mm/s.
- Select the button to change the sweep speed to 10 mm/s or 50 mm/s.

Changing the sweep speed compresses or expands the waveform horizontally.



Sweep Speed Changed to 10 mm/s



Sweep Speed Changed to 50 mm/s

7.4. ECG Gain

- The ECG Gain function allows you to adjust the display gain (signal amplitude) of the ECG waveform shown in the Main ECG Chart.
- The default ECG gain is 10 mm/mV.
- Select the button to change the ECG gain to 2.5, 5, or 20 mm/mV.
- Increasing the ECG gain increases the displayed waveform amplitude, while decreasing the ECG gain reduces the displayed waveform amplitude.



ECG Gain Changed to 20 mm/mV



ECG Gain Changed to 2.5 mm/mV

Important

- For large animals, such as horses, reduce the ECG gain when reviewing the waveform. For small animals, such as cats and small-breed dogs, increase the ECG gain to enlarge the waveform for easier review.
- The ECG gain selected during peak detection determines the waveform size displayed in the ECG Interpretation Report. The sweep speed in the report is fixed at 25 mm/s.
- The ECG gain adjusted in the Control Panel affects only the waveform displayed in the Main ECG Chart. The waveform included in the ECG Interpretation Report is generated using the ECG gain selected during peak detection.

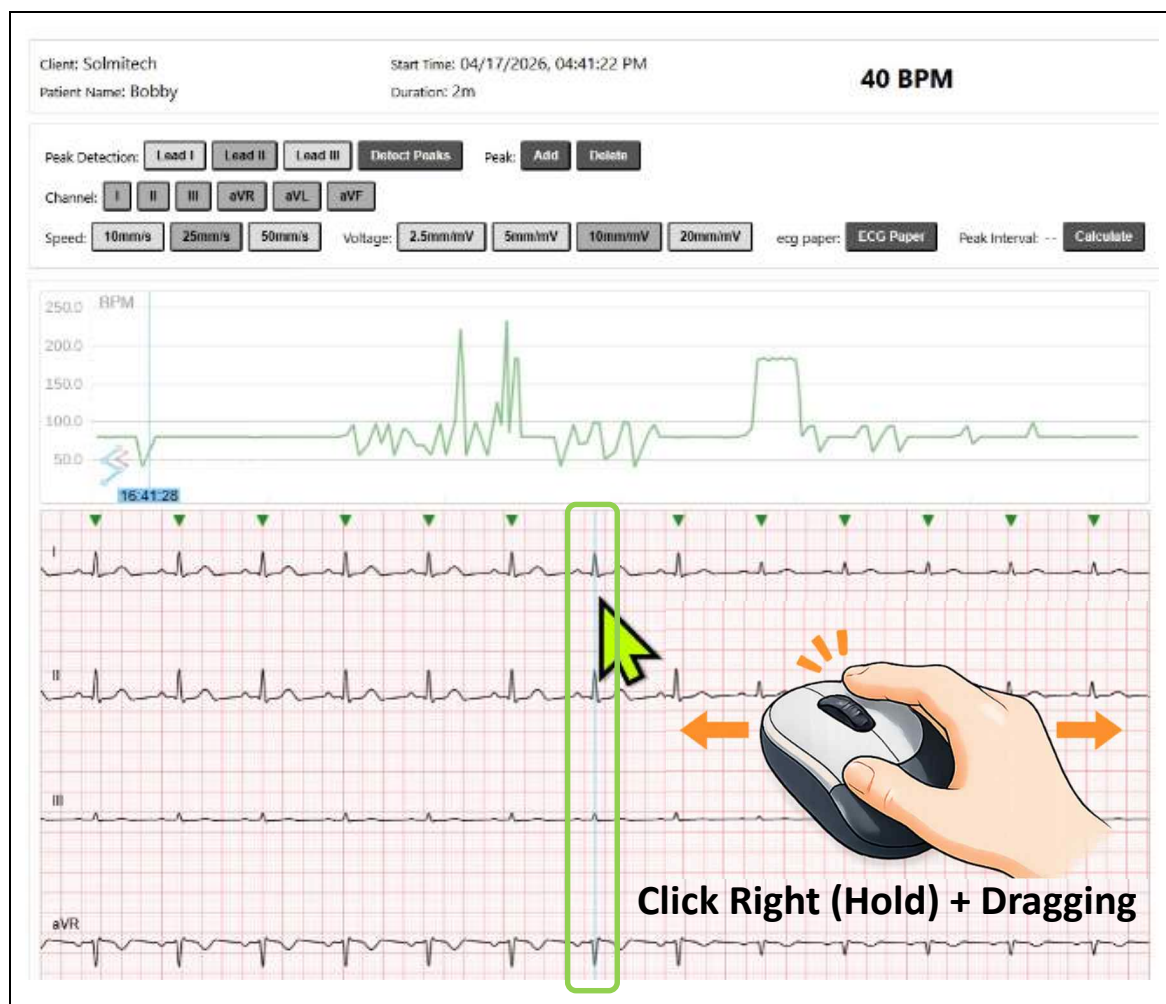
For example, if peak detection was performed using an ECG gain of 10 mm/mV and the displayed waveform is too small, you may increase the ECG gain to 20 mm/mV in the Control Panel for on-screen review. However, unless peak detection is performed again using the 20 mm/mV setting, the ECG Interpretation Report will continue to display the waveform at the original gain of 10 mm/mV. If peak detection is repeated after selecting 20 mm/mV, the report will include the waveform displayed at the new gain setting.

7.5. Peak Editing

- If an R peak is missing or has been detected at an incorrect location, you can manually add or delete R peaks.

Adding a Peak

- Move the pointer over the Main ECG Chart.
- Click and hold the right mouse button, then drag left or right to scroll the ECG waveform.
- Position the location where you want to add the R peak at the light blue vertical reference line in the center of the Main ECG Chart, then release the mouse button.



Selecting the Peak Insertion Position (Light Blue Vertical Reference Line)

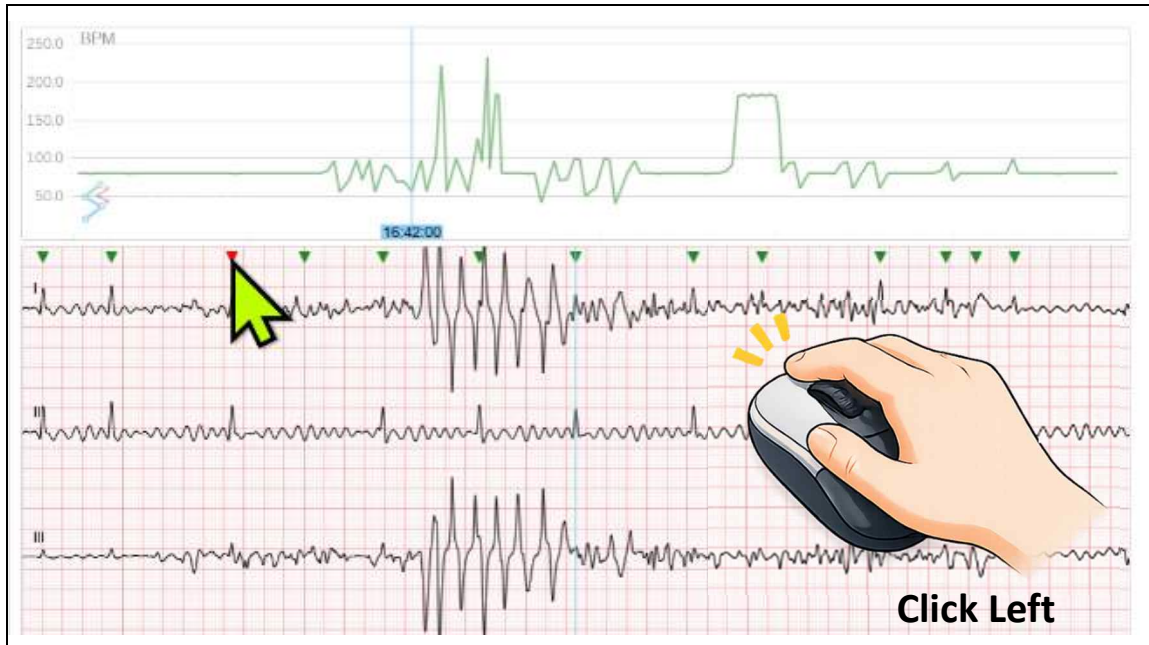
- Select Add.
- When the Peak Insertion Information dialog box appears, review the displayed information and select OK.
- An R peak is added at the specified time position.



Adding an R Peak

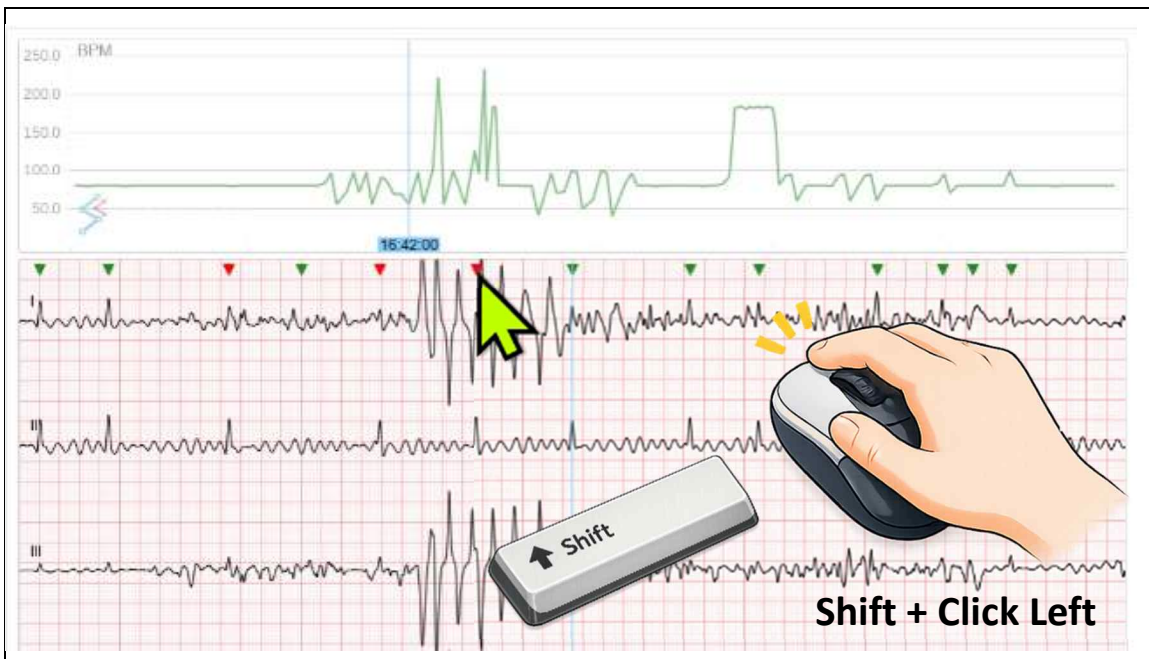
Deleting a Peak

- Select the R peak to be deleted by clicking the corresponding peak marker.
- The selected R peak is highlighted in red.



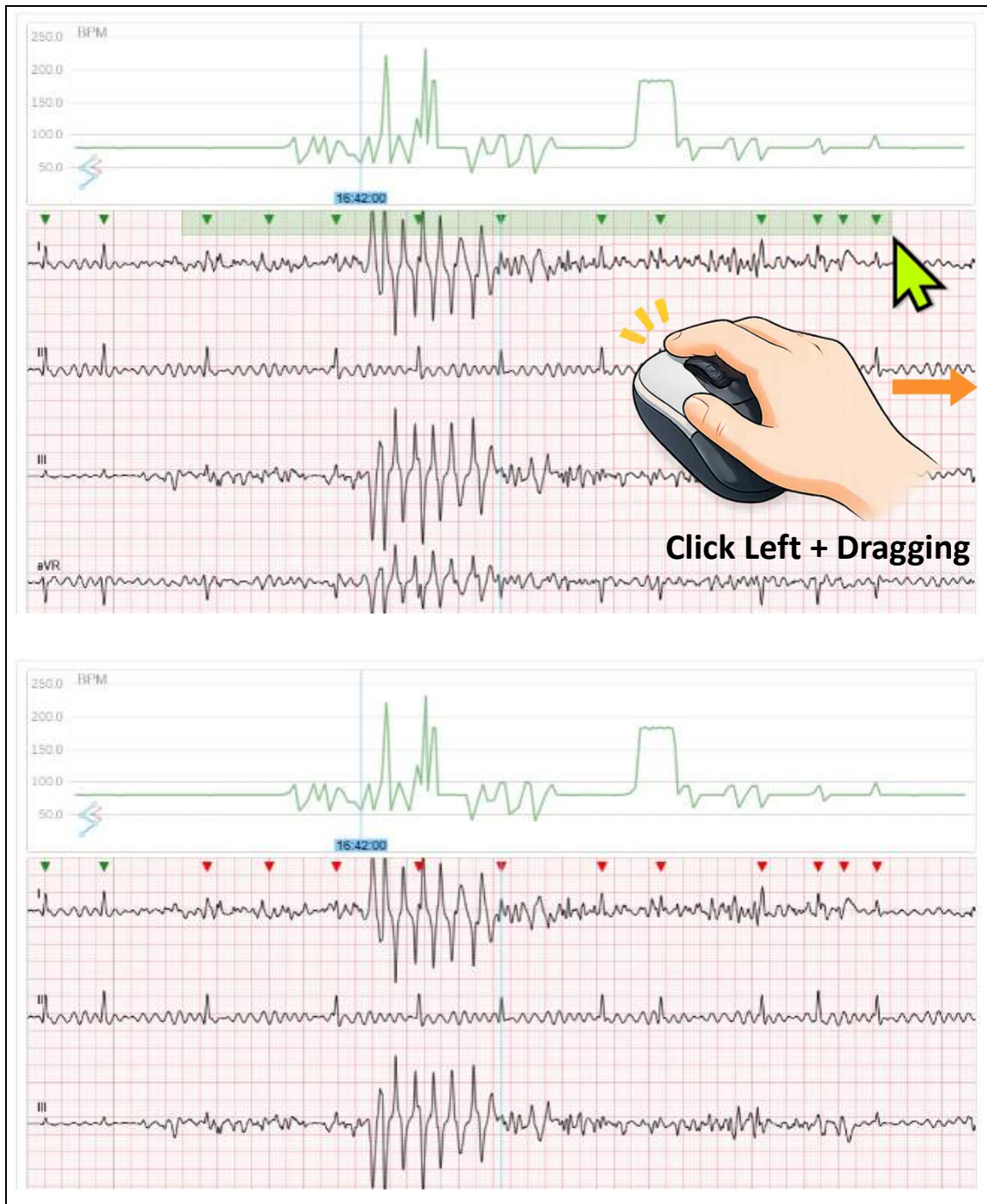
Selecting an R Peak (Mouse Click)

- To select multiple R peaks, hold down the Shift key while clicking each peak marker.



Selecting Multiple R Peaks (Hold the Shift Key and Click)

- To select multiple consecutive R peaks, click and hold the left mouse button and drag across the desired peak markers.



Selecting Multiple Consecutive R Peaks (Click and Drag)

- Select Delete.
- When the Delete Confirmation dialog box appears, select OK to confirm the deletion.
- Manually edited R peak information is applied immediately to the BPM calculation results.



R Peak Deletion Completed

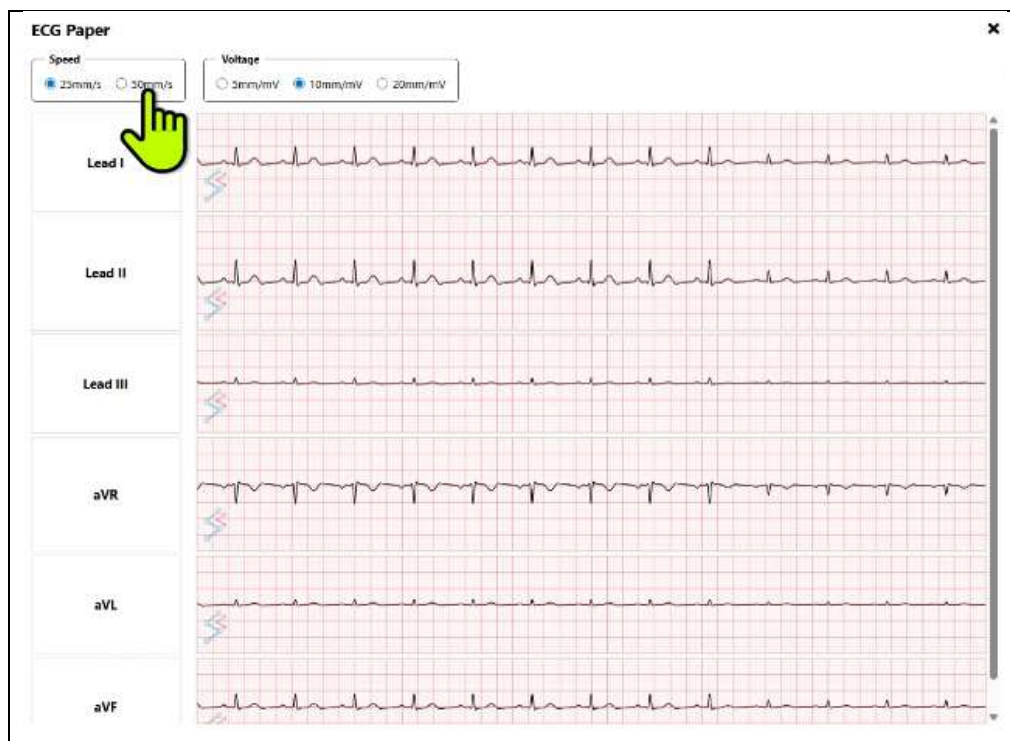
7.6. ECG Paper

- The ECG Paper function displays the waveform currently centered in the Main ECG Chart using a standard ECG paper format at a 1:1 scale.
- The default display settings are a sweep speed of 25 mm/s and an ECG gain of 10 mm/mV.



Selecting ECG Paper

- The sweep speed can be set to 25 or 50 mm/s, and the ECG gain can be set to 5, 10, or 20 mm/mV.



Changing the Sweep Speed and ECG Gain

7.7. Peak Interval Measurement

- The Peak Interval Measurement function measures the interval between two R peaks.
- Click the first R peak to select it.
- Hold down the Shift key and click the second R peak.
- The selected R peaks are highlighted in red.



Selecting Two R Peaks

- Calculate Select Calculate. The time interval (ms) between the two selected R peaks is calculated.



Selecting Calculate

8. Analysis Tools

8.1. Abnormal RRI

- The Abnormal RRI tool identifies and displays R peaks with an RRI change rate that exceeds the specified threshold.
- The default threshold for the RRI change rate is 30%.
- Select the desired R peak from the list.
- The selected R peak is displayed at the light blue vertical reference line in both the BPM Trend Chart and the Main ECG Chart, allowing you to review the corresponding ECG waveform.



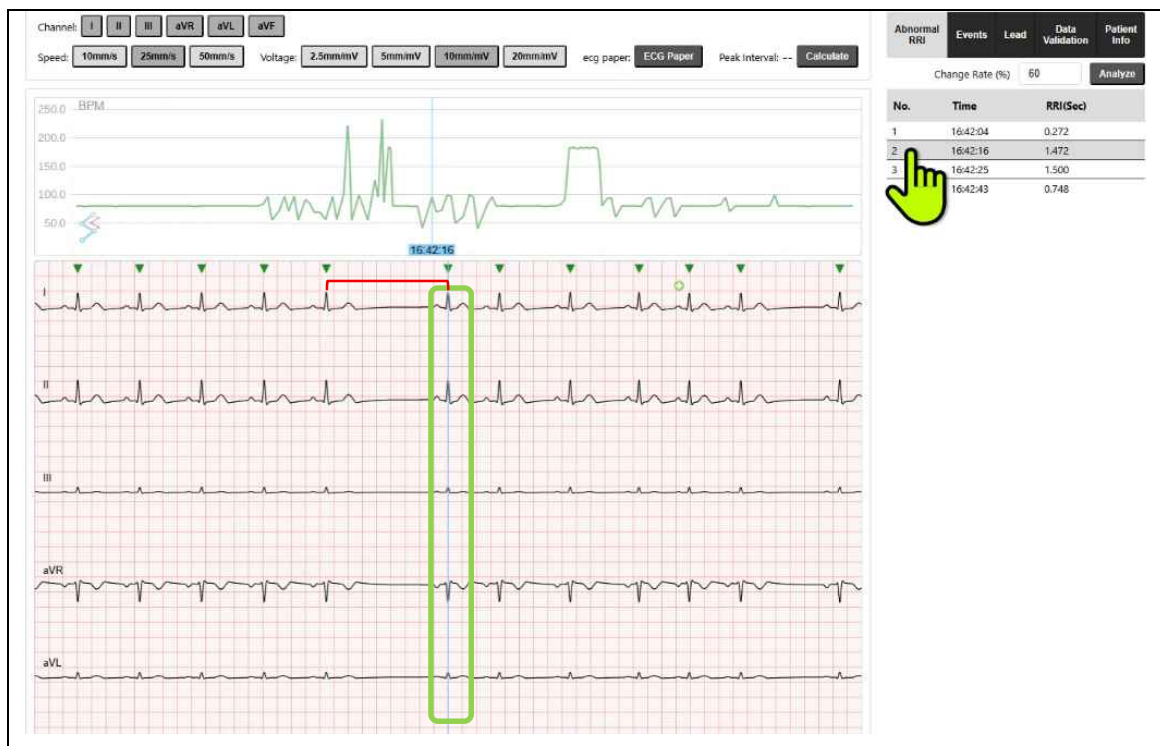
- To change the threshold, enter the desired value directly in the Change Rate (%) field or use the up and down arrow buttons to adjust the value.
- Select Analyze.

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Change Rate (%)		60	Analyze	
No.	Time	RRI(Sec)		
1	16:41:53	1.088		
2	16:42:04	0.272		
3	16:42:09	0.260		
4	16:42:16	1.472		
5	16:42:25	1.500		
6	16:42:37	0.332		
7	16:42:43	0.748		
8	16:42:51	0.996		

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Change Rate (%)		60	Analyze	
No.	Time	RRI(Sec)		
1	16:41:53	1.088		
2	16:42:04	0.272		
3	16:42:09	0.260		
4	16:42:16	1.472		
5	16:42:25	1.500		
6	16:42:37	0.332		
7	16:42:43	0.748		
8	16:42:51	0.996		

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Change Rate (%)		60	Analyze	
No.	Time	RRI(Sec)		
1	16:42:04	0.272		
2	16:42:16	1.472		
3	16:42:25	1.500		
4	16:42:43	0.748		

- The list displays R peaks whose RRI change rate exceeds the specified threshold.
- Select the desired R peak from the list.



8.2. Events

Peak Events

- If an abnormal waveform is identified during ECG interpretation, you can add a Peak Event and enter an interpretation comment.
- Select the R peak where the Peak Event is to be added by clicking the corresponding peak marker.
- The selected R peak is highlighted in red.



- Select Add, enter the event title and interpretation comment, and then select Save to save the event.
- A Peak Event marker (⊕) is displayed below the selected R peak, and the event is added to the Peak Events list.

Abnormal RRI Events Lead Data Validation Patient Info

Peak Events: Add Edit Delete ▲ ▼

No. Time Title Comment

Add Peak Event

Selected Time
16:41:51

Event Title
AF

Comment
AF detected

Save



- Repeat this procedure to register additional abnormal waveforms identified during ECG interpretation in the Peak Events list and add interpretation comments.
- The Event Title, interpretation comment, and corresponding ECG waveform for each Peak Event are included in the ECG Interpretation Report.
- The Event Title, interpretation comment, and corresponding ECG waveform for each Peak Event are documented in the ECG Interpretation Report.

Abnormal RRI **Events** **Lead** **Data Validation** **Patient Info**

Peak Events **Add** **Edit** **Delete** **▲** **▼**

No.	Time	Event Title	Comment
1	16:41:51	AF	AF detected.
2	16:42:15	Sinus Arrhythmia	Sinus Arrhythmia detected.
3	16:42:37	Atrial Tachycardia	Atrial Tachycardia detected.
4	16:42:44	Paired PVC	Paired PVC detected.

VETERINARY ECG REPORT **QUET**

Min HR
40 bpm
16:42:23
II

Max HR
231 bpm
16:42:09
II

AF
AF detected.
16:41:51
II

Sinus Arrhythmia
Sinus Arrhythmia detected.
16:42:15
II

Atrial Tachycardia
Atrial Tachycardia detected.
16:42:37
II

Paired PVC
Paired PVC detected.
16:42:44
II

- To modify an existing event, select the event from the list, select Edit, make the necessary changes, and then select Save to save the changes.

Abnormal RRI **Events** **Lead** **Data Validation** **Patient Info**

Peak Events **Add** **Edit** **Delete** **▲** **▼**

No.	Time	Event Title	Comment
1	16:41:51	AF	AF detected.
2	16:42:15	Sinus Arrhythmia	Sinus Arrhythmia detected.
3	16:42:37	Atrial Tachycardia	Atrial Tachycardia detected.
4	16:42:44	Paired PVC	Paired PVC detected.

Edit Peak Event **×**

Selected Time
16:42:15

Event Title
Sinus Arrhythmia

Comment
Sinus Arrhythmia detected.

Save

- Select the event to be deleted from the Peak Events list, and then select Delete.

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Peak Events Add Edit Delete ▲ ▼				
No.	Time	Event Title	Comment	
1	16:41:51	AF	AF detected.	
2	16:42:15	Sinus Arrhythmia	Sinus Arrhythmia detected.	
3	16:42:37	Atrial Tachycardia	Atrial Tachycardia detected.	
4	16:42:44	Paired PVC	Paired PVC detected.	

solmitech.co.kr says

Delete the selected event?

OK
Cancel

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Peak Events Add Edit Delete ▲ ▼				
No.	Time	Event Title	Comment	
1	16:41:51	AF	AF detected.	
2	16:42:37	Atrial Tachycardia	Atrial Tachycardia detected.	
3	16:42:44	Paired PVC	Paired PVC detected.	

- Use the Up and Down buttons to change the display order of events in the Peak Events list. Events with a higher priority are listed first in the ECG Interpretation Report.

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Peak Events Add Edit Delete ▲ ▼				
No.	Time	Event Title	Comment	
1	16:41:51	AF	AF detected.	
2	16:42:37	Atrial Tachycardia	Atrial Tachycardia detected.	
3	16:42:44	Paired PVC	Paired PVC detected.	

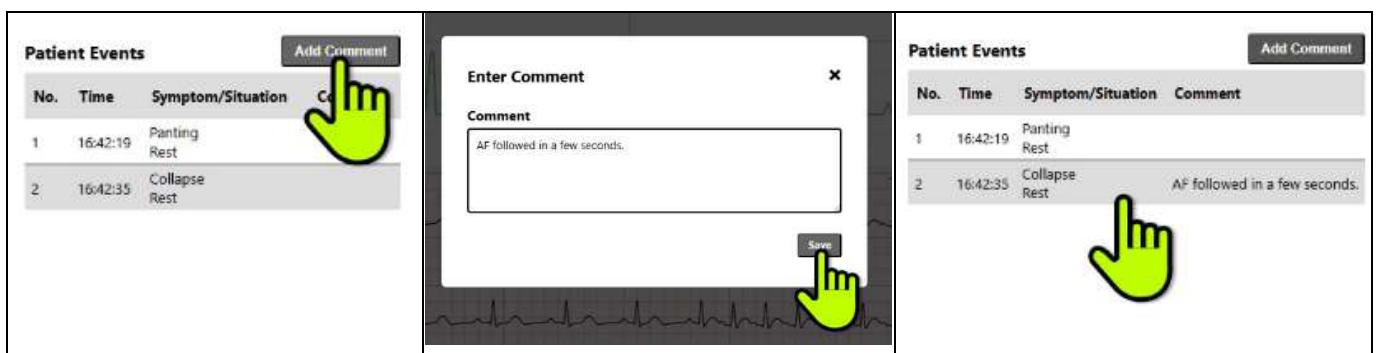
Abnormal RRI	Events	Lead	Data Validation	Patient Info
Peak Events Add Edit Delete ▲ ▼				
No.	Time	Event Title	Comment	
1	16:42:37	Atrial Tachycardia	Atrial Tachycardia detected.	
2	16:41:51	AF	AF detected.	
3	16:42:44	Paired PVC	Paired PVC detected.	

Patient Events

- If clinical symptoms occur in the patient animal during ECG recording, the veterinarian can document them using the Symptom Report feature in the mobile application.
- The Patient Events list displays the entries recorded by the veterinarian in the Symptom Report.
- The interpreter can review each event in the list and enter an interpretation comment.
- Only Patient Events with an interpretation comment are included in the ECG Interpretation Report. Therefore, it is recommended that an interpretation comment be entered for every event in the Patient Events list.
- Select an event from the list to navigate to the corresponding Patient Event marker () recorded by the veterinarian. The associated ECG waveform is displayed with the Patient Event marker aligned to the light blue vertical reference line in the Main ECG Chart.



- Select Add Comment, enter the interpretation comment, and then select Save to save the changes.



The three screenshots illustrate the process of adding a comment to a Patient Event:

- Step 1:** The Patient Events list is shown. A green hand icon points to the 'Add Comment' button next to the second event (16:42:35, Collapse Rest).
- Step 2:** The 'Enter Comment' dialog box is displayed. The comment 'AF followed in a few seconds.' is entered into the text field. A green hand icon points to the 'Save' button.
- Step 3:** The Patient Events list is shown again. The comment 'AF followed in a few seconds.' is now visible in the 'Comment' column for the second event. A green hand icon points to the updated entry.

- To modify an interpretation comment, follow the same procedure: select Add Comment, edit the comment, and then select Save.

Patient Events

No.	Time	Symptom/Situation	Comment
1	16:42:19	Panting Rest	
2	16:42:35	Collapse Rest	AF followed in a few seconds.

Add Comment

Enter Comment

Comment

Sinus Arrhythmia followed in a few seconds.

Save

Patient Events

No.	Time	Symptom/Situation	Comment
1	16:42:19	Panting Rest	Sinus Arrhythmia followed in a few seconds.
2	16:42:35	Collapse Rest	AF followed in a few seconds.

- The Event Title, interpretation comment, and corresponding ECG waveform for each Patient Event are included in the ECG Interpretation Report.

Patient Events

No.	Time	Symptom/Situation	Comment
1	16:42:19	Panting Rest	Sinus Arrhythmia followed in a few seconds.
2	16:42:35	Collapse Rest	AF followed in a few seconds.

SOLMITECH
Cardiology & Monitor Systems

VETERINARY ECG REPORT

Min HR
40 bpm
16:42:23
II

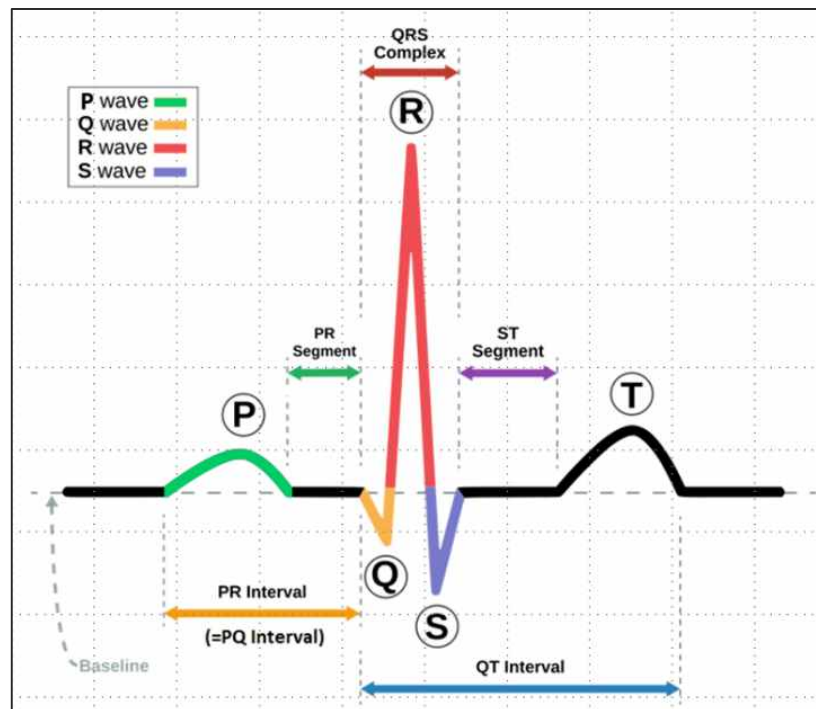
Max HR
231 bpm
16:42:09
II

Patient Events
Sinus Arrhythmia followed in a few seconds.
16:42:19
II

Patient Events
AF followed in a few seconds.
16:42:35
II

8.3. Lead Analysis

- This tool provides analysis of the QRS complex and the Mean Electrical Axis (MEA).
- Refer to the figure below for the names and locations of the ECG waveform components used in the analysis.



QRS Analysis

- Select Lead > QRS.
- Select the R peak to be used for QRS analysis by clicking the corresponding peak marker in the Main ECG Chart.
- The selected R peak is highlighted in light blue ().



- Select the P Wave Amplitude input field.
- Drag the light blue horizontal reference lines (Baseline/Peak) to align them with the ECG baseline and the P-wave peak, and then select Set. The measured value is automatically entered into the input field.

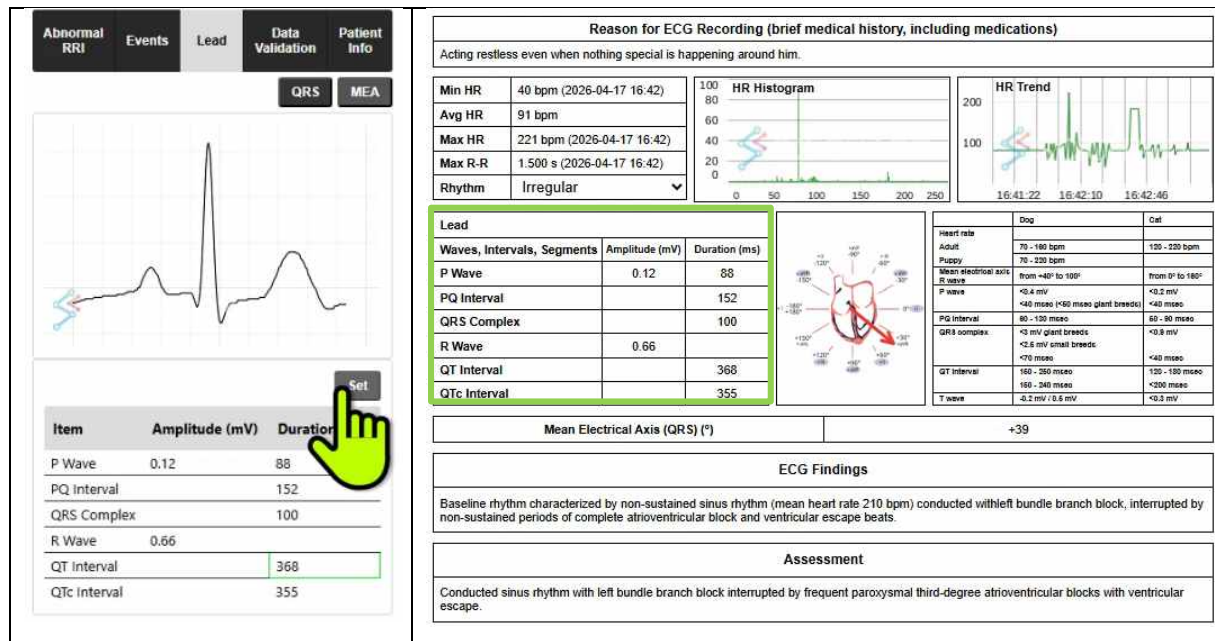


- Select the P Wave Duration input field.
- Drag the light blue vertical reference lines (Start/End) to align them with the onset and end of the P wave, and then select Set. The measured value is automatically entered into the input field.



- Repeat the same procedure to enter the amplitude or duration values for the PQ Interval, QRS Complex, R Wave, and QT Interval.

- To modify a measured value, select the corresponding field, adjust the start and end points, and then select Set to update the value.
- After all measurements have been entered, the QTc Interval is calculated automatically and included in the ECG Interpretation Report.



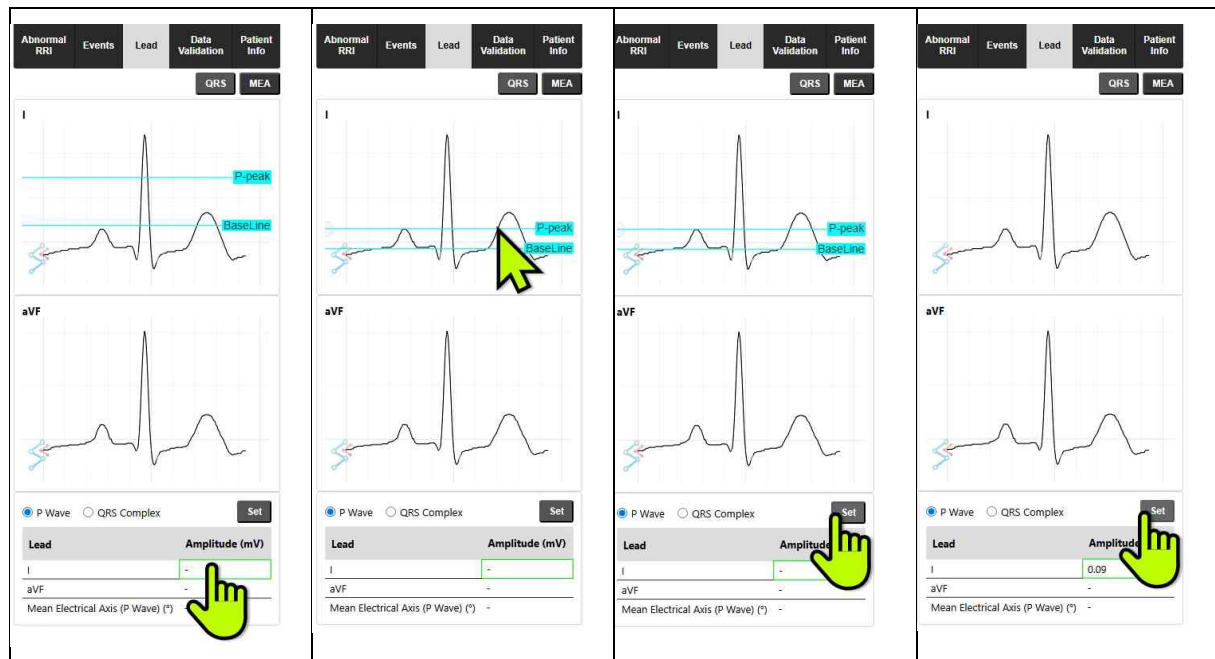
Mean Electrical Axis (MEA) Calculation

- Select Lead > MEA, and then select the R peak to be analyzed.
- The selected R peak is highlighted in orange (▼).
- The Mean Electrical Axis (MEA) can be calculated using either the P wave or the QRS complex. The calculated MEA value is included in the ECG Interpretation Report.

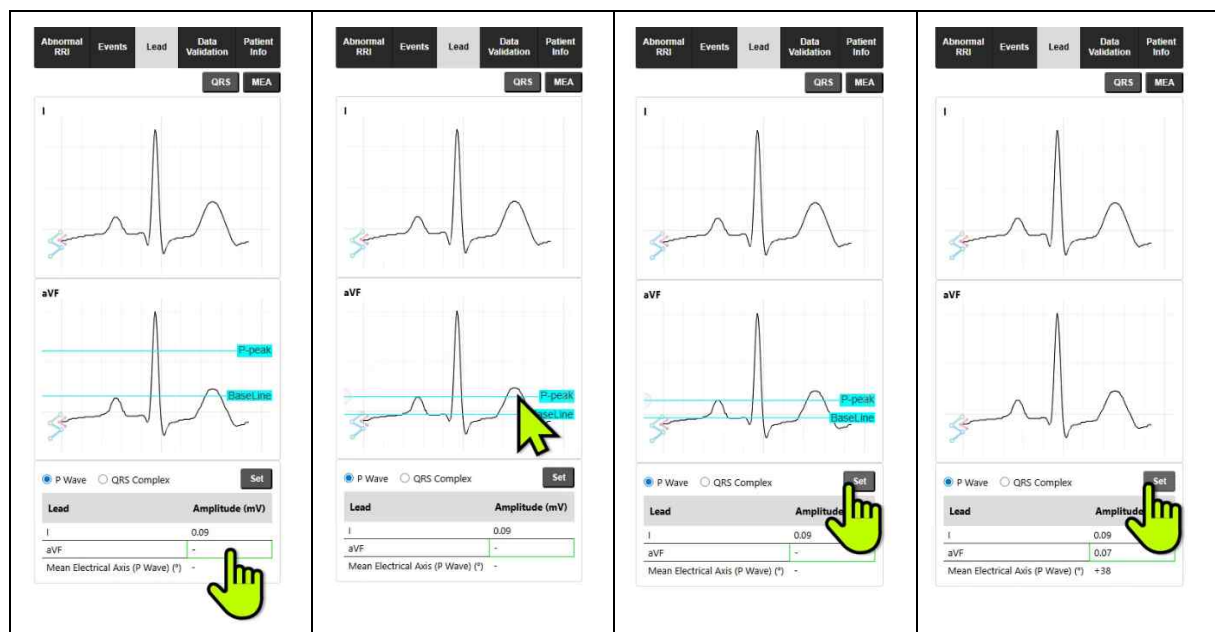


P Wave

- Select P Wave as the waveform for MEA calculation.
- Refer to the instructions below to enter the required measurement values for each parameter.
- To modify a measured value, select the corresponding field, adjust the start and end points, and then select Set to update the value.



- After all required measurement values have been entered, the Mean Electrical Axis (P Wave) is calculated automatically.

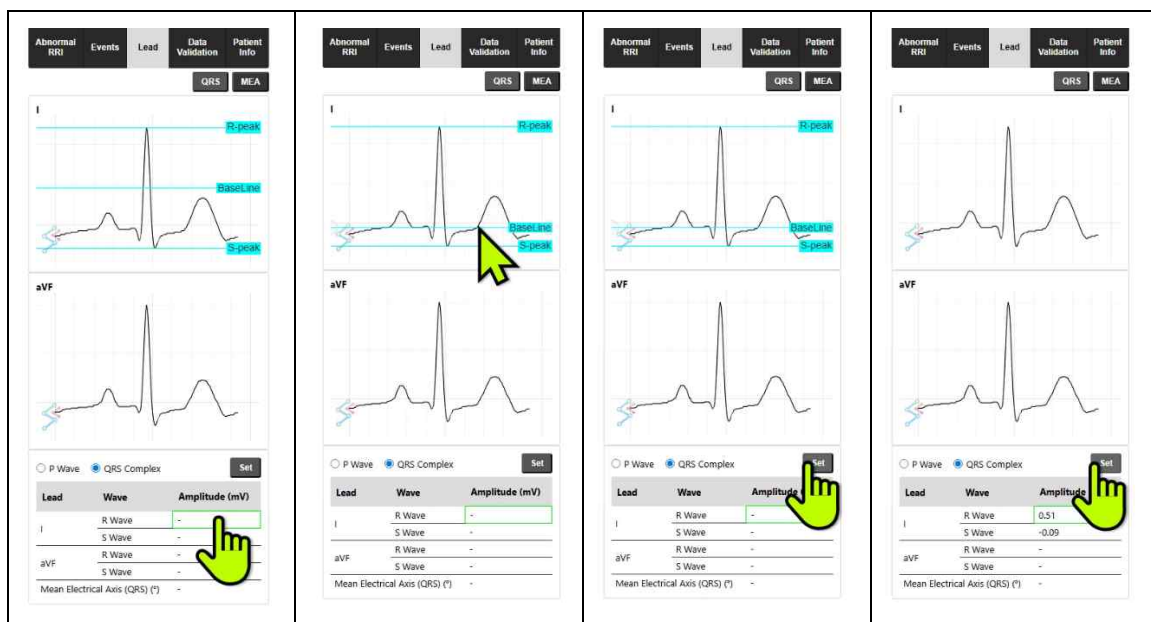


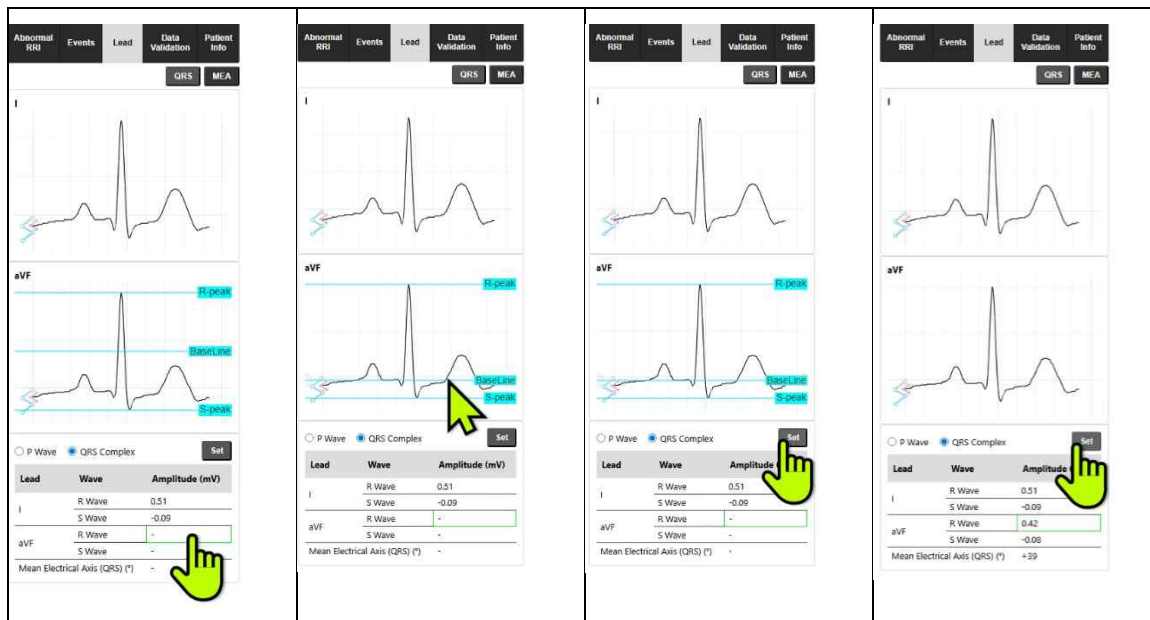
QRS Complex

- Select QRS Complex as the waveform for MEA calculation.

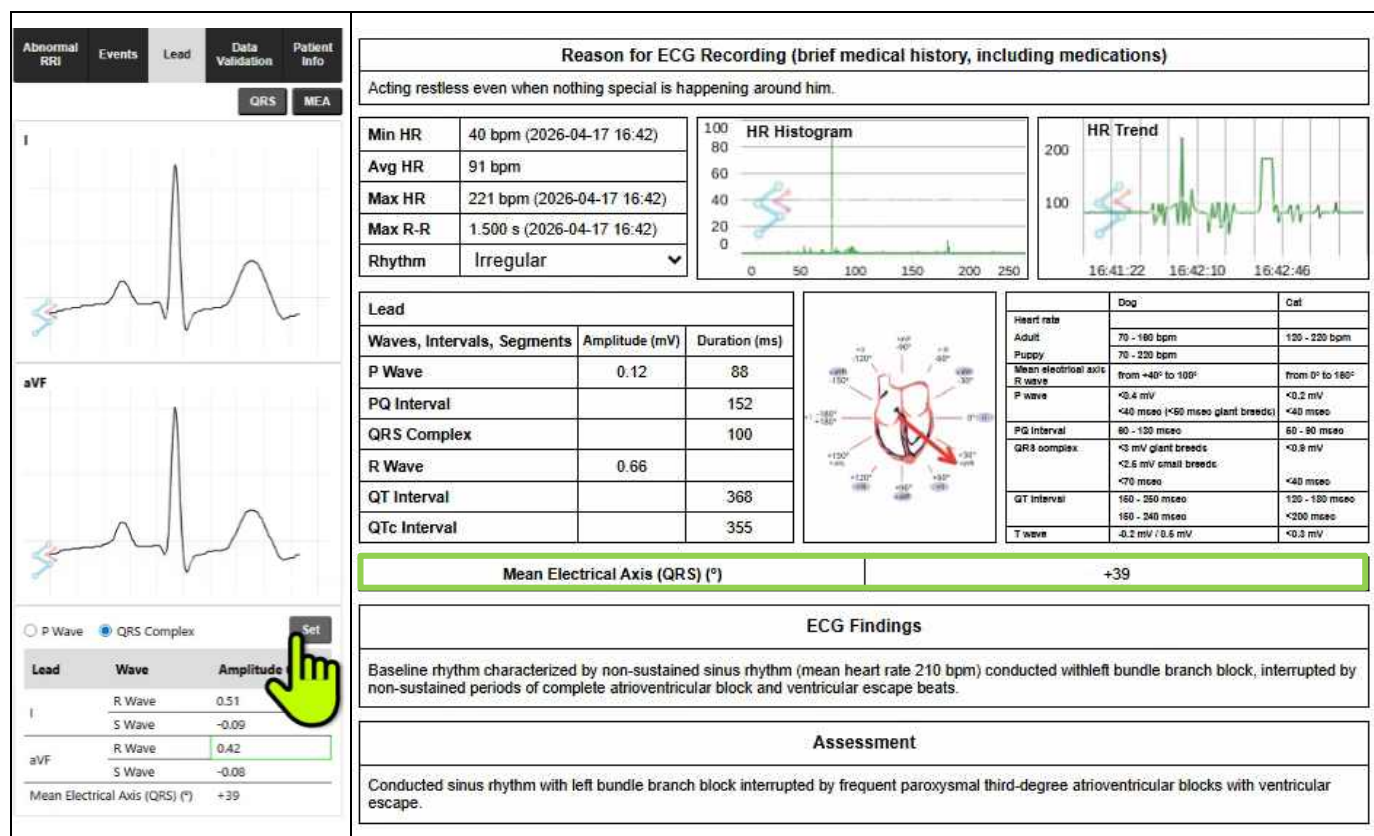


- Refer to the instructions for entering the QRS Analysis amplitude and duration measurements, and enter the required values for each parameter.
- The R-wave peak and S-wave peak are detected automatically. If necessary, drag the peak markers to adjust their positions. Drag the baseline marker to set the baseline position.
- To modify a measured value, select the corresponding field, adjust the start and end points, and then select Set to update the value.





- After all required measurement values have been entered, the Mean Electrical Axis (QRS) is calculated automatically.
- The MEA value calculated using the selected method (P Wave or QRS Complex) is included in the ECG Interpretation Report.



8.4. Data Validation

Min Heart Rate / Max Heart Rate

- The Min Heart Rate list displays the 15 R peaks with the lowest heart rates, in ascending order of heart rate.
- The Max Heart Rate list displays the 15 R peaks with the highest heart rates, in descending order of heart rate.
- Select an R peak from either list to display the corresponding ECG waveform in the Main ECG Chart. The selected R peak is aligned with the light blue vertical reference line.



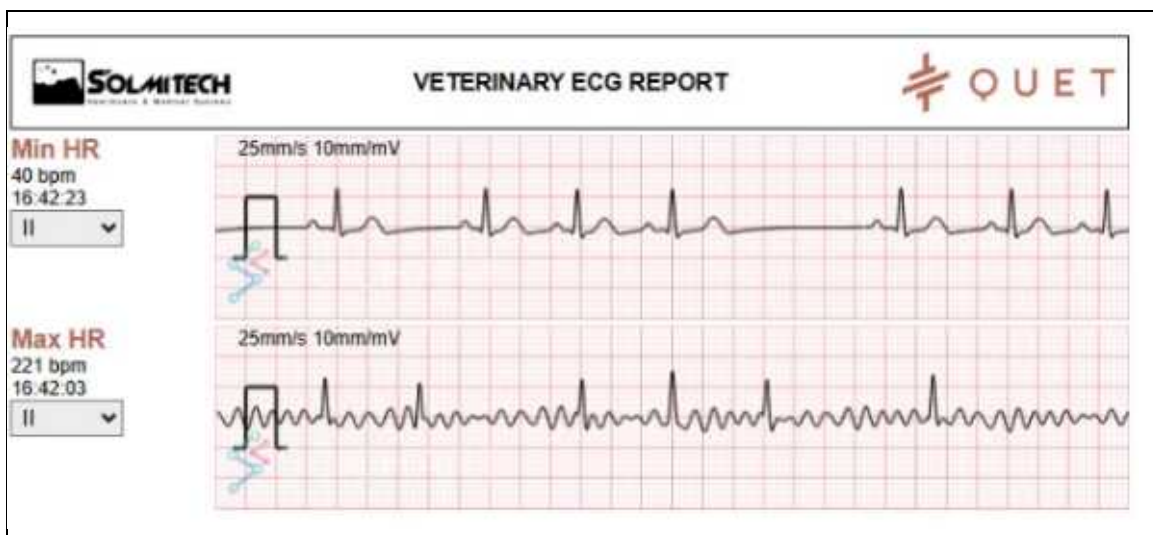
- If an R peak has an incorrect heart rate due to noise or other artifacts during ECG recording, select Delete to remove it from the list.



- When an R peak is deleted from the list, the next ranked R peak is automatically moved up, and the list is updated accordingly.



- The heart rate and corresponding ECG waveform of the highest-priority entry (Rank 1) in both the Min Heart Rate and Max Heart Rate lists are included in the ECG Interpretation Report.



RRI List

- The RRI List displays the 15 R-to-R intervals with the longest durations, in descending order of interval length.
- Select an R-to-R interval from the list to display the corresponding ECG waveform in the Main ECG Chart. The selected interval is aligned with the light blue vertical reference line.
- Use this list to identify abnormal ECG patterns, such as bradycardia and arrhythmias.
- If an R-to-R interval has been calculated incorrectly due to noise or other artifacts during ECG recording, select Delete to remove it from the list.
- When an R-to-R interval is deleted from the list, the next ranked interval is automatically moved up, and the list is updated accordingly.



8.5. Patient info

- Use this section to review or update the Patient Animal information submitted by the veterinary hospital.
- To modify the information, select the appropriate field in Patient Details, edit the information, and then select Save to save the changes.

Abnormal RRI	Events	Lead	Data Validation	Patient Info
Patient Details				
Basic Info				
Name		Sex		
Bobby		Male		
Species		Breed		
Cat		Great Dane		
Select Dog Cat Horse Other		8		
50				
Medical History				
Reason & Medical History				
Acting restless even when nothing special is happening around him.				
Save				

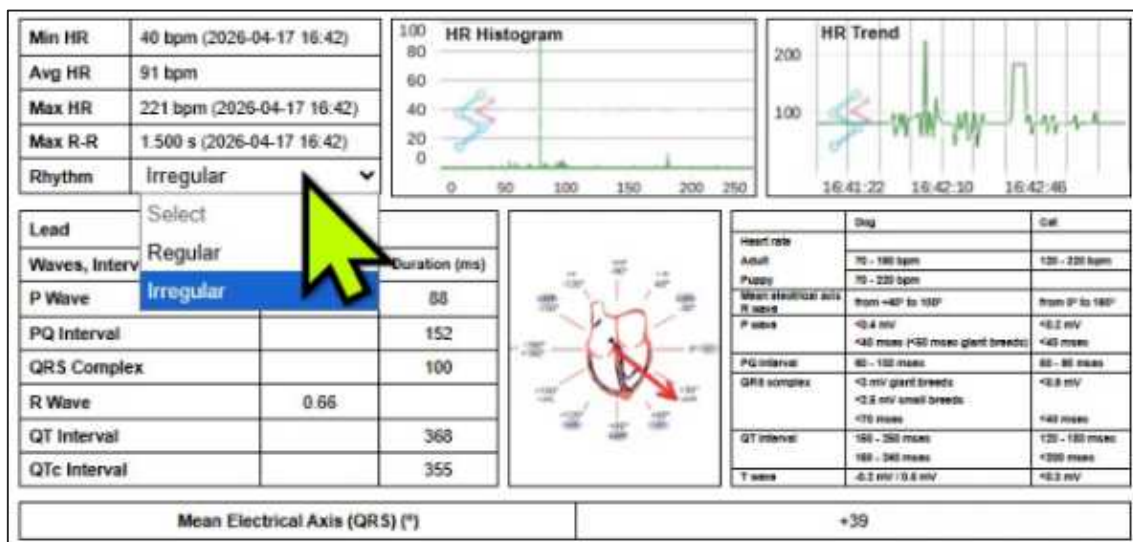
Abnormal RRI	Events	Lead	Data Validation	Patient Info
Patient Details				
Basic Info				
Name		Sex		
Bobby		Male		
Species		Breed		
Dog		Great Dane		
Physical Info				
Age (year)		Age (month)		
3		8		
Weight (kg)				
50				
Medical History				
Reason & Medical History				
Acting restless even when nothing special is happening around him.				
Save				

9. Report

- Use this section to review the ECG Interpretation Report, whether it is in progress or completed, and to send the completed report to the veterinary hospital.
- Select Report.



- Under Rhythm, select either Regular or Irregular to indicate the rhythm classification.



- Enter the interpretation findings in the ECG Findings, Assessment, and Recommendations fields.
- Ensure that the total text entered does not exceed 16 lines.

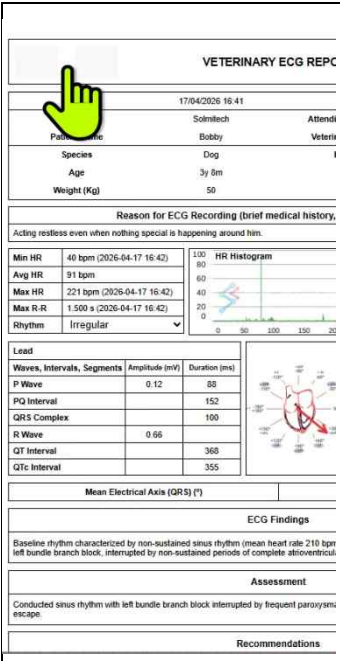
ECG Findings
Baseline rhythm characterized by non-sustained sinus rhythm (mean heart rate 210 bpm) conducted with left bundle branch block, interrupted by non-sustained periods of complete atrioventricular block and ventricular escape beats.

Assessment
Conducted sinus rhythm with left bundle branch block interrupted by frequent paroxysmal third-degree atrioventricular blocks with ventricular escape.

Recommendations
In consultation with your cardiologist, we recommend, if not recently performed, complete blood tests with cardiac troponin I and thyroid profile, and abdominal ultrasound. We recommend evaluating a 24-hour Holter ECG and possible pacemaker implantation.

Register the interpretation center logo

- Select the area to the left of the report title (VETERINARY ECG REPORT), and then select the logo image file stored on your computer.
- To replace the logo, repeat the same procedure with a new image file.
- Once registered, the logo remains in use until it is replaced.



VETERINARY ECG REPORT

Date: 17/04/2026 16:41

Owner: Solmittech
Patient Name: Bobby
Species: Dog
Age: 3y 8m
Weight (Kg): 50

Reason for ECG Recording (brief medical history):
Acting restless even when nothing special is happening around him.

Min HR: 40 bpm (2026-04-17 16:42)
Avg HR: 91 bpm
Max HR: 221 bpm (2026-04-17 16:42)
Max R-R: 1,500 s (2026-04-17 16:42)
Rhythm: Irregular

Lead: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6

Waves, Intervals, Segments Amplitude (mV) Duration (ms)

P Wave 0.12 88

PQ Interval 152

QRS Complex 100

R Wave 0.66

QT Interval 368

QTc Interval 355

Mean Electrical Axis (QRS) (°)

ECG Findings

Baseline rhythm characterized by non-sustained sinus rhythm (mean heart rate 210 bpm) conducted with left bundle branch block, interrupted by non-sustained periods of complete atrioventricular block and ventricular escape beats.

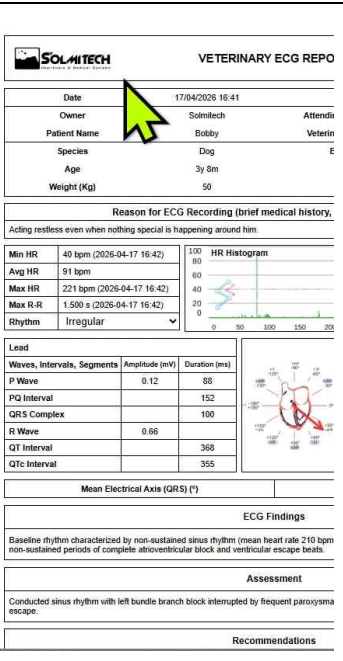
Assessment

Conducted sinus rhythm with left bundle branch block interrupted by frequent paroxysmal third-degree atrioventricular blocks with ventricular escape.

Recommendations

Downloads

File: solmittech-logo.png



VETERINARY ECG REPORT

Date: 17/04/2026 16:41

Owner: Solmittech
Patient Name: Bobby
Species: Dog
Age: 3y 8m
Weight (Kg): 50

Reason for ECG Recording (brief medical history):
Acting restless even when nothing special is happening around him.

Min HR: 40 bpm (2026-04-17 16:42)
Avg HR: 91 bpm
Max HR: 221 bpm (2026-04-17 16:42)
Max R-R: 1,500 s (2026-04-17 16:42)
Rhythm: Irregular

Lead: I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6

Waves, Intervals, Segments Amplitude (mV) Duration (ms)

P Wave 0.12 88

PQ Interval 152

QRS Complex 100

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QTc Interval 355

Mean Electrical Axis (QRS) (°)

ECG Findings

Baseline rhythm characterized by non-sustained sinus rhythm (mean heart rate 210 bpm) conducted with left bundle branch block, interrupted by non-sustained periods of complete atrioventricular block and ventricular escape beats.

Assessment

Conducted sinus rhythm with left bundle branch block interrupted by frequent paroxysmal third-degree atrioventricular blocks with ventricular escape.

Recommendations

Register the interpreting veterinarian's name and affiliation

- Select Doctor Name and enter the interpreting veterinarian's name.
- Under Hospital Name, enter the interpreting veterinarian's affiliated hospital or institution, professional title, or academic degree. The information can be updated using the same procedure.
- Once registered, the interpreting veterinarian's name and affiliation remain in use until they are changed.

Recommendations

In consultation with your cardiologist, we recommend, if not recently performed, complete blood tests with cardiac troponin I and thyroid profile, and abdominal ultrasound. We recommend evaluating a 24-hour Holter ECG and possible pacemaker implantation.

Doctor Name
Hospital Name

VETERINARY ECG REPORT QUET

Min HR
40 bpm
16:42:23

25mm/s 10mm/mV

Register the signature image

- Select the dotted rectangular area to the left of the interpreting veterinarian's name and affiliation, and then select the signature image file stored on your computer.
- To replace the signature, repeat the same procedure with a new image file.
- Once registered, the signature remains in use until it is replaced.

ECG Findings

hythm (mean heart rate 210 bpm) conducted with left bundle branch block, interrupted by and ventricular escape beats.

Assessment

errupted by frequent paroxysmal third-degree atrioventricular blocks with ventricular

Recommendations

ot recently performed, complete blood tests with cardiac troponin I and thyroid profile, 24-hour Holter ECG and possible pacemaker implantation.

Dr. Seo Ji Hoon
DVM, PhD, Dipl. ECVIM-CA (Cardiology)

VETERINARY ECG REPORT QUET

ECG Findings

hythm (mean heart rate 210 bpm) conducted with left bundle branch block, interrupted by and ventricular escape beats.

Assessment

errupted by frequent paroxysmal third-degree atrioventricular blocks with ventricular

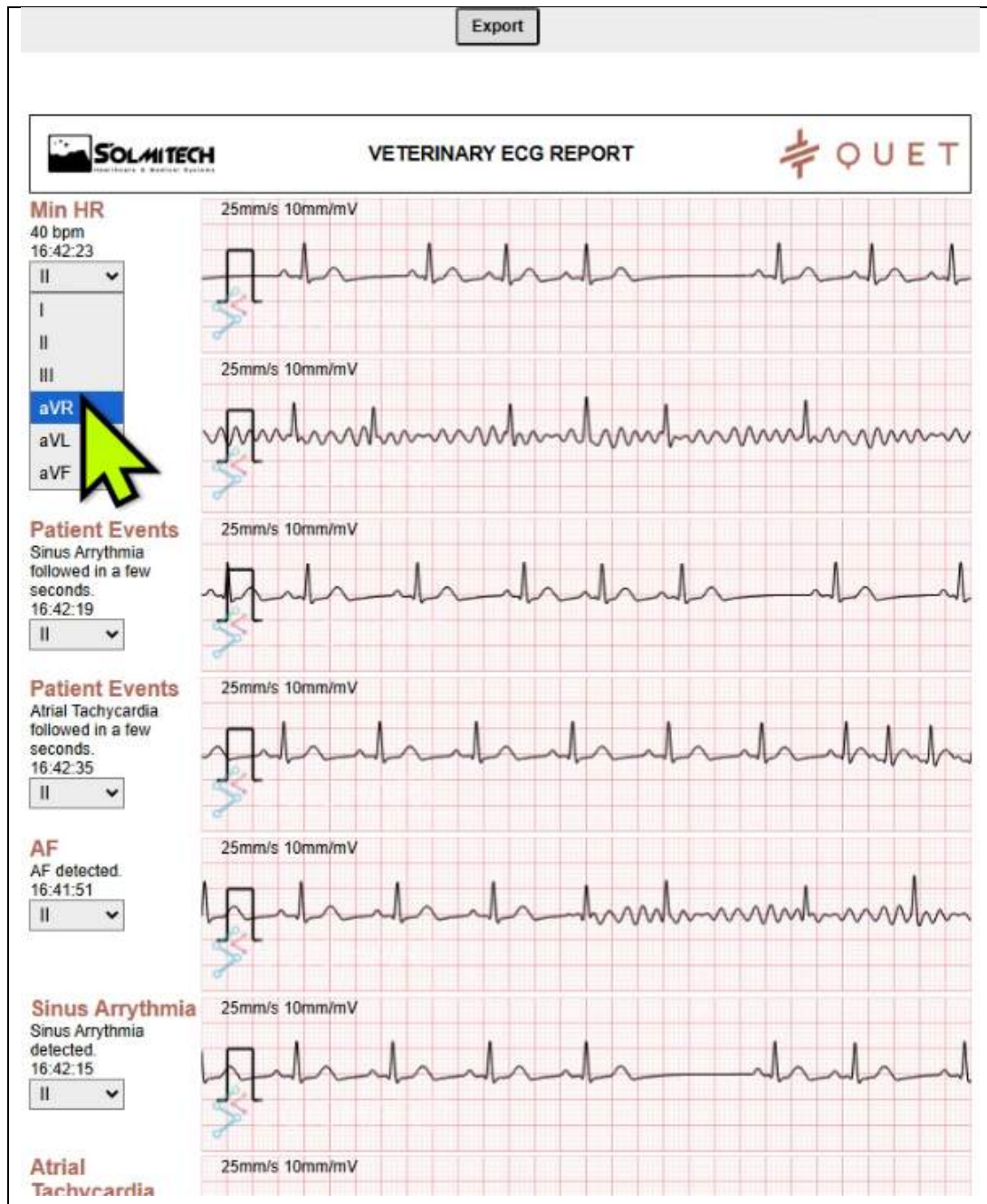
Recommendations

ot recently performed, complete blood tests with cardiac troponin I and thyroid profile, 24-hour Holter ECG and possible pacemaker implantation.

Dr. Seo Ji Hoon
DVM, PhD, Dipl. ECVIM-CA (Cardiology) Seo

VETERINARY ECG REPORT QUET

- By default, the ECG waveform included in the report is displayed using Lead II.
- You may select a different lead if required. Select the lead that best represents the analysis results.



- After confirming that the report is complete and accurate, select Export to send the ECG Interpretation Report to the veterinary hospital.

Export

VETERINARY ECG REPORT

Date	17/04/2026 16:41		
Owner	Solmittech	Attending Clinician	
Patient Name	Bobby	Veterinary Centre	Solmivet
Species	Dog	Breed	Great Dane
Age	3y 8m	Sex	Male
Weight (Kg)	50		

Reason for ECG Recording (brief medical history, including medications)
 Acting restless even when nothing special is happening around him.

Min HR	40 bpm (2026-04-17 16:42)
Avg HR	91 bpm
Max HR	221 bpm (2026-04-17 16:42)
Max R-R	1.500 s (2026-04-17 16:42)
Rhythm	Irregular

Lead	Amplitude (mV)	Duration (ms)
Waves, Intervals, Segments		
P Wave	0.12	88
PQ Interval		152
QRS Complex		100
R Wave	0.66	
QT Interval		368
QTc Interval		355

	Dog	Cat
Heart rate		
Adult	70 - 160 bpm	120 - 230 bpm
Puppy	70 - 220 bpm	
Mean electrical axis	from +40° to 100°	from 0° to 180°
R wave	<0.4 mV	<0.2 mV
P wave	<40 msec	<40 msec
PQ interval	80 - 120 msec	80 - 90 msec
QRS complex	<2 mV giant breeds	<0.8 mV
	<2.6 mV small breeds	
	<75 msec	<40 msec
QT interval	160 - 260 msec	120 - 180 msec
	160 - 240 msec	<200 msec
T wave	0.2 mV / 0.6 mV	<0.2 mV

Mean Electrical Axis (QRS) (°)
+39

ECG Findings
 Baseline rhythm characterized by non-sustained sinus rhythm (mean heart rate 210 bpm) conducted with left bundle branch block, interrupted by non-sustained periods of complete atrioventricular block and ventricular escape beats.

Assessment
 Conducted sinus rhythm with left bundle branch block interrupted by frequent paroxysmal third-degree atrioventricular blocks with ventricular escape.

Recommendations