

PHILIPS

IntelliSpace ECG
Management System

Release B.02

English

ECG Anywhere Instructions for Use

IntelliSpace ECG Management System

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Release B.02

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Medical Device Directive

IntelliSpace ECG Management System is a software-only product. ECG Anywhere is a feature of the IntelliSpace ECG Management System.

The IntelliSpace ECG Management System complies with the requirements of the Medical Device Directive 93/42/EEC and carry the following mark accordingly:



Global Medical Device Nomenclature (GMDN)

Medical equipment clinical data interfacing software.

The 5-digit GMDN code adjacent to the symbol is defined in ISO 15225: Medical devices -- Quality management -- Medical device nomenclature data structure.



Compliance

IntelliSpace ECG Management System complies with all relevant international and national standards and laws. Information on compliance will be supplied on request by a local Philips Medical Systems representative, or by the manufacturer.

IntelliSpace ECG Management System meets the following requirements for safety and performance:

- IEC 60601-1-6:2010 +A1:2013 +A2:2020
- IEC 60601-2-25:2011
- IEC 62304:2006 +A1:2015
- IEC 82304-1:2016
- IEC 62366-1:2015 +A1:2020

Warranty

Be advised that the product warranty could be voided by:

- service performed by an unauthorized service provider;
- use of the device outside of its intended purpose;
- any unauthorized device modifications;
- use non-Philips accessories or consumables.

For specific warranty details, contact your Philips representative or Response Center.

Responsibility of Manufacturer

Philips Medical Systems only considers itself responsible for any effects on safety, reliability and performance of the product if:

- assembly operations, extensions, readjustments, modifications or repairs are done by persons authorized by Philips, and
- the electrical installation of the relevant room or vehicle complies with the IEC or national requirements, and
- the instrument is used according to the instructions for use presented in this manual.

Responsibility of Customer

The user of this product is responsible for ensuring the implementation of a satisfactory maintenance schedule. Failure to do so may cause undue failure and possible health hazards.

Any serious incident that has occurred in relation to this device should be reported to Philips and the competent authority of the Member State in which the user and/or patient is established.

ECG Anywhere Instructions For Use

This Philips product is intended to be operated only in accordance with the safety procedures and operating instructions provided in this *ECG Anywhere Instructions For Use*, and in accordance with the purposes for which it was designed. Installation, use, and operation of this product is subject to the laws in effect in the jurisdiction(s) in which the product is being used.

Users must only install, use, and operate this product in such a manner that does not conflict with applicable laws or regulations that have the force of law.

Use of this product for purposes other than the express intended purpose provided by the manufacturer, or incorrect use and operation, may relieve the manufacturer (or agent) from all or some responsibility for resultant non-compliance, damage, or injury.

Operator Requirements

Users of this product must receive adequate clinical training on its safe and effective use before attempting to operate the product as described in this *ECG Anywhere Instructions For Use*.

Training requirements vary by country. Users must ensure that they receive adequate clinical training in accordance with local laws or regulations.

Training

For further information on available training on the use of this product, please contact your Philips representative.

CAUTIONS

THIS PRODUCT IS NOT INTENDED FOR HOME USE.

Rx Only: IN THE U.S., FEDERAL LAW RESTRICTS THIS DEVICE TO SALE ON OR BY THE ORDER OF A PHYSICIAN.

Philips strongly recommends that your site not use patient identification numbers that are related to any other forms of identity, such as social security number or driver's license number. Using unique patient identification numbers is part of best practices for any information technology system as a way to help health care providers and patients avoid identity theft.

Trademarks

Product and company names mentioned herein may be the trademarks or registered trademarks of their respective owners.

Conventions

The following conventions are used in this *ECG Anywhere Instructions For Use*:

Typeface	Usage	Example
Bold	User interface items and system keys, internal software components and file names	Click Settings . Press CTRL+F .
<i>Italic</i>	Variables, document titles	<i><product name>-<hardware configuration>-<software version>.cfg</i> <i>IntelliSpace ECG, Pharma Edition, Instructions for Use</i>
URL	Website URLs	www.healthcare.philips.com

Menu Selections

Menu selections are displayed in the order in which each menu option is selected, separated by an arrow (>).

WARNING

Warning statements describe conditions or actions that can result in personal injury or loss of life.

Caution

Caution statements describe conditions or actions that can result in damage to the equipment or loss of data. Caution statements alert the user that the clinician has the responsibility of determining significance of results due to actions and varying factors present with each case.

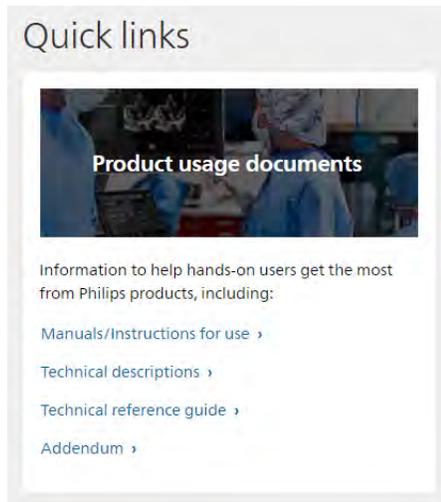
Note:

Notes contain additional information on using this product.

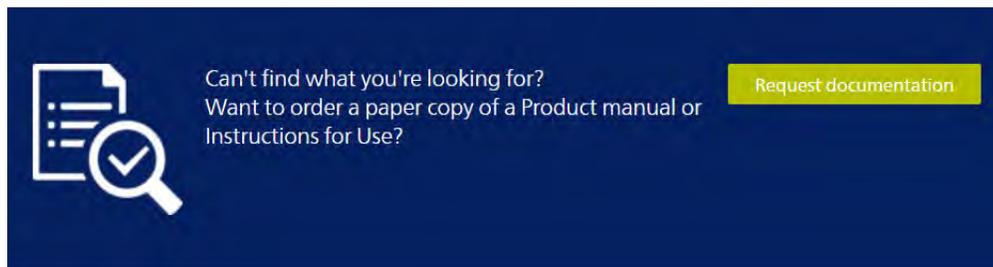
Obtaining a Paper Copy of the Instructions for Use

Paper copies of the *Instructions for Use* may be requested from the Philips Document Library (www.philips.com/IFU). To request a paper copy:

1. Under **Product usage documents**, select **Manuals/Instructions for Use**.



2. Scroll down to "Can't find what you're looking for? Want to order a paper copy of a Product manual or Instructions for Use? Click **Request documentation**."



3. Select your location and complete the remaining required fields. Be sure to enter the full product name (e.g., "PageWriter TC35 Cardiograph," not "TC35").

Document request
* This field is mandatory

United States Request type*

Salutation* Given name *

Surname * Email address *

Business phone number * Hospital/Institution *

Product name *

Additional information

Submit

4. Under "Request type," select **Paper**.

Using the Philips InCenter Site

The Philips InCenter site provides frequent updates to all Philips Cardiac Systems service documentation, product software and firmware.

The Philips InCenter site requires an active registration and password. To register, go to the InCenter site at <https://philips.mizecx.com>.

User Name

Password

[Need Help?](#) [Forgot Password?](#) [Guest User](#)

Login

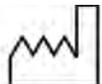
[\(or\) Login with SSO](#)

If you have an existing InCenter account, enter your username and password, then click **Login**.

If you do not have an InCenter account, click on the **Need help?** link on the main page (located under the password field). On the following page, follow the directions under **For Externals** to receive a user name and password for the InCenter site.

Explanation of Symbols

The IntelliSpace ECG Management System software label, installation DVD and user documentation DVD labels, or user documentation may display one or more of the following symbols.

Symbol	Name	Standard/Reference
	Refer to instruction manual/booklet. Symbol color is blue.	ISO 7010 Graphical Symbols - Safety colours and safety signs - Registered safety signs, M002
	CE marking accompanied by the Notified Body number 0123	European Council Directive 93/42/EEC concerning medical devices as amended by 2007/47/EC, Annex XII
	Indicates the Authorized representative in the European Community.	IEC 15223-1* 5.1.2
	Indicates that the Instructions for Use is available in electronic format at www.philips.com/IFU .	ISO 7000** 3500
	Date of manufacture	ISO 15223-1* 5.1.3
	Name and address of manufacturer	ISO 15223-1* 5.1.1
	Prescription Use Only (US Federal Law)	21 CFR 801.109(b)(1) Prescription Devices
	Quantity (indicated by number on symbol)	ISO 7000** 2794
	Catalog number	ISO 15223-1* 5.1.6
	Batch number	ISO 15223-1* 5.1.5
<p>* ISO 15223-1 Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements</p> <p>** ISO 7000 / IEC 60417 Graphical symbols for use on equipment</p>		

Symbol	Name	Standard/Reference
	Medical Device	Medical Devices Regulation 2017/745/EU, Annex 1, chapter III, section 23.2, q.
	Unique Device Identifier	Medical Devices Regulation 2017/745/EU, Annex 1, chapter III, section 23.2, h.
	Configured options	—
	Sales Order	—
	Production Order	—
	Dispose of in accordance with the requirements of your country.	Waste Electrical and Electronic Equipment Directive 2012/19/EU, Article 14.4
<p>* ISO 15223-1 Medical devices - Symbols to be used with medical device labels, labeling and information to be supplied - Part 1: General requirements</p> <p>** ISO 7000 / IEC 60417 Graphical symbols for use on equipment</p>		

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About IntelliSpace ECG Anywhere

IntelliSpace ECG Anywhere allows you to review, edit, assign, verify and confirm reports from any internet-enabled device with an HTML5-enabled web browser, at a screen resolution of at least 1024 x 768. You don't need to be connected to your institution's network to access patient data. For access details, contact your IT administrator.

Note:

ECG Anywhere is designed for desktop or laptop viewing, and is not recommended for use on mobile devices. You may access ECG Anywhere using a tablet, but devices with small screens, such as cell phones, are not recommended.

IntelliSpace ECG Anywhere gives you easy access to patient ECGs, stress reports, and ambulatory ECG reports from any browser, anywhere. It fits right into your review workflow, helping you quickly work through a set of records. With ECG Anywhere, you can:

1. Retrieve reports to work with
2. View a patient's current and previous ECG on the same page, in the same format as viewing printed ECG reports
3. Review, assign, and verify ECGs
4. Review, assign, and verify stress and ambulatory ECG studies and reports
5. Approve or unapprove ECGs
6. Edit patient demographics or report data
7. Optionally print or email reports

This guide provides information about using the IntelliSpace ECG Anywhere browser-based ECG reader. Access this guide at any time by accessing the application **Help** function.

For additional information about ECG reports, critical values, report formats, working with orders, and related functions, see the *IntelliSpace ECG Instructions for Use* and the *Philips 12- and 16-lead algorithm Physician Guides*. All of the available documentation is described in the *IntelliSpace ECG Components and Documentation Reference*, available through the application **Help** function.

For additional information about stress reports, see the *Philips ST80i Stress Test System Instructions for Use*.

For additional information about Holter reports, see the *Philips Holter Instructions for Use*.

IntelliSpace ECG Anywhere Overview

IntelliSpace ECG Anywhere allows you to review, edit, assign, verify and confirm reports from any internet-enabled device with an HTML5-enabled web browser. You do not have to be connected to your institution's network to access patient data. For access details, contact your IT administrator.

The application comprises two main pages: Search and Review.

- Use the Search page to specify the reports to retrieve.
- Examine ECGs in detail on the Review page, and perform side-by-side/stacked review with a previous ECG.
- Assign, analyze, compare, approve or unapprove, verify, reconcile and confirm ECGs.
- Assign, approve or unapprove, verify, confirm, reconcile, review and edit stress and ambulatory ECG reports.

Getting Started

ECG Anywhere supports two authentication methods:

- *Standard authentication*, the default method, which requires that users type their user name and password to log in.
- *Integrated (pass-through) Windows authentication*, which does not require further log in. Users simply click through the login screens, leaving the user name and password fields blank, as they have already been "pre-authenticated."

ECG Anywhere can be configured for pass-through user authentication. For more information, see the *IntelliSpace ECG Management System Configuration Guide*.

Before you start, have available your login credentials (user name, password, and domain), if needed, as well as the link to the ECG Anywhere installation at your site. If you have questions or experience any issues, contact your system administrator.

Caution

Ensure that the computer you are using to access ECG Anywhere is on a protected network and domain. Accessing ECG Anywhere on a publicly shared computer is not recommended.

To access ECG Anywhere:

1. Point your web browser to the ECG Anywhere link provided to you by your system administrator.

You are either directed to a Login page, or, if your site uses a single Windows login, to the Search page.

2. If prompted, enter your user name and password to log into the application.
If you have a default Report search saved, the results of the default search criteria are displayed.

To log out of ECG Anywhere, select the **Logout** button at the top right of the Search window, and then close the browser.

Setting the Application Language

By default, ECG Anywhere is displayed in the language specified in your browser settings. However, if you have specified a language in your IntelliSpace ECG user profile, ECG Anywhere will be displayed in that language when you log in using your ISECG credentials. For more information, see the *IntelliSpace ECG Management System Instructions for Use*.

ECG Anywhere is available in the following languages:

- Dutch
- Danish
- English
- Finnish
- French
- German
- Italian
- Norwegian
- Spanish
- Swedish

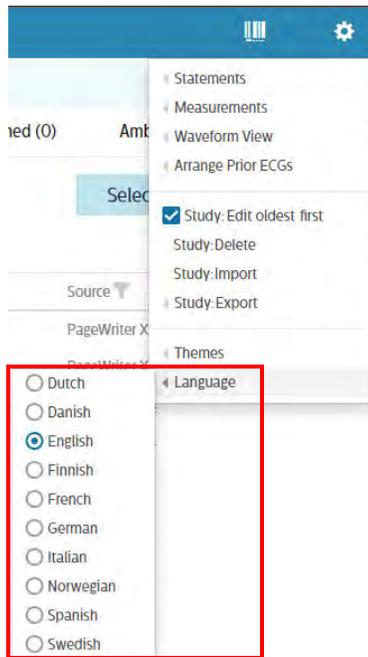
You can change the ECG Anywhere language, if desired.

To display ECG Anywhere in a different language:



1. After logging in, select the Settings icon.
2. Select **Language**.

3. Select the desired language.



Your selection will be saved to your ISECG user profile. The application will now be displayed in the selected language, and will be displayed in that language whenever you log in.

Note:

Interpretive statements are always displayed in the language in which the ECG was acquired.

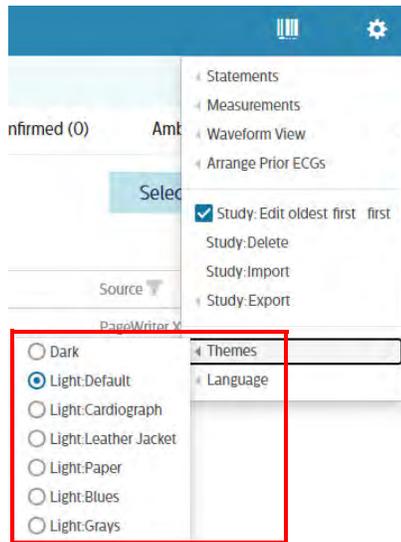
Selecting the Viewing Theme

To select a viewing theme:



1. After logging in, select the Settings icon.
2. Select **Themes**.

3. Select the desired theme.



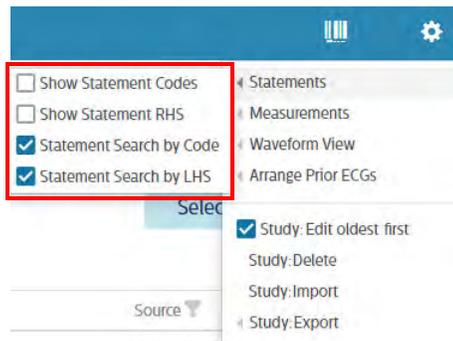
Your selection will be applied each time you log in.

Study Review Settings

In the Settings menu, the following options are used during review of studies:

Statements

Under this menu, you can configure the following settings:



- **Show Statement Codes:** enable to show the Statement Codes on the report.
- **Show Statement RHS:** enable to display Reasons on the printed report only; they will not appear on printed reports of confirmed ECGs.
- **Statement Codes:** a search setting. The statements that include the search input in the code will be retrieved.
- **Statement LHS:** a search setting. The statements that include the search input in the text will be retrieved.

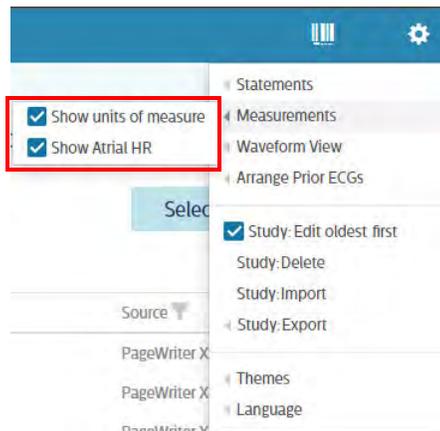
Note:

At least one of the above search options (Statement Codes or Statement LHS) must be checked.

Your selections will be applied each time you log in. Settings will be retained until you make a change.

Measurements

Under this menu, you can configure:

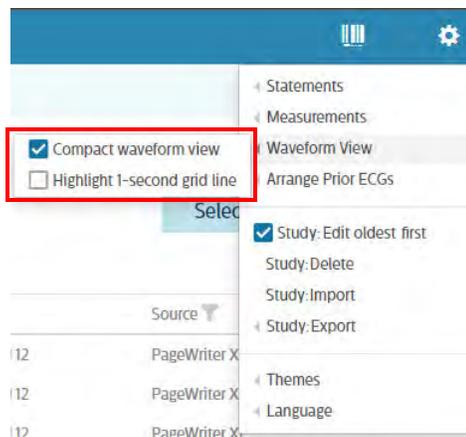


- **Show units of measure:** enable to display units of measurement for ECGs.
- **Show Atrial HR:** enable to display the atrial heart rate in addition to the ventricular heart rate for ECGs.

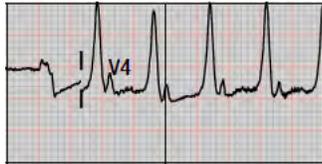
Your selections will be applied each time you log in. Settings will be retained until you make a change.

Waveform View

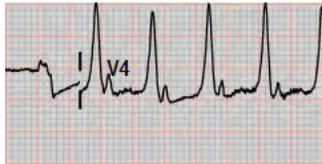
Under this menu, you can configure:



- **Compact waveform view:** when checked, displays ECG reports in the aspect ratio in which they were captured. This setting remains in place for all ECGs until you change it.
- **Highlight 1-second grid view:** When selected, ECGs will be displayed with a 1-second line in the ECG grid. When unchecked, the 1-second line will not be displayed.



1-second grid line on

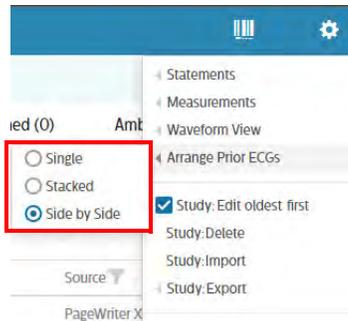


1-second line off

Your selections will be applied each time you log in. Settings will be retained until you make a change.

Arrange Prior ECGs

This menu allows you to set the default arrangement when displaying two ECGs simultaneously. Options are **Single**, **Stacked** or **Side by Side**.



Your selection will be applied each time you log in.

Note:

You can change the arrangement temporarily in the Review Screen, see "Displaying Two ECGs Simultaneously" on page 34.

Edit oldest study first

When selected, this setting controls the sequence of ECG reports when confirming multiple ECGs for a patient. If checked, reports are opened by newest to oldest, but the focus is set on the oldest ECG report.

Your selections will be applied each time you log in.

Import, Export and Delete Controls

ECG Anywhere allows you to import external studies into the IntelliSpace ECG (ISECG) database, or to export or delete studies from the ISECG database.

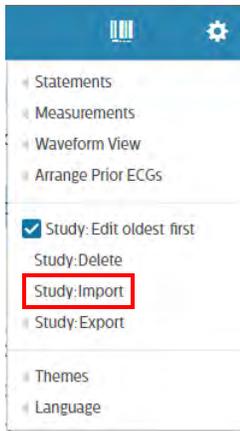
Importing Studies

You can view or import studies into ECG Anywhere from external media, such as a USB memory stick. Basically, the limiting factor is the media supported by your client PC.

To import a study:



1. Select the Settings icon.
2. Select **Study Import**.



3. Navigate to the file to import, and double-click it.

The file must be under 25 MB in size. You can import a single file at a time.

The file is imported into the database without being displayed in the client application.

4. After importing the reports, retrieve them using the **Search** function (as described in the following chapters). You can then work with the report as desired.

Note:

You cannot import the following file types using this method:

- Quinton Q-Stress PDFs
 - ECGs from GE cardiographs
-

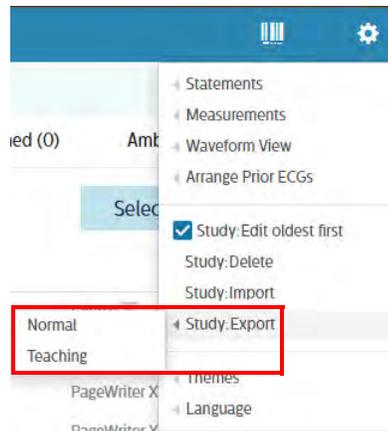
Exporting Studies

If you have the appropriate permissions, ECG Anywhere allows you to export studies from the ISECG database on the Search screen. You can export one or

more records at one time. If more than one records are exported, they will be compressed in a zip file. From Search, ECG studies are exported in XML or PDF format, Other study types are exported as PDFs.

To export a study:

1. Perform a search.
2. In the Results list, select the studies you want to export.
3. Select the Settings icon.
4. Select **Study Export > Normal** or **Teaching**.



Note:

When you select Teaching, exported reports are stripped of identifying patient information.

5. The export file will be written to your browser's download directory. From there, you can copy it to a USB memory stick or other location.

Deleting Studies

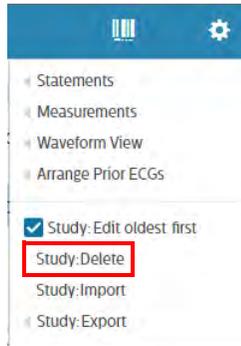
If you have the appropriate permissions, ECG Anywhere allows you to delete studies from the ISECG database on the Search screen.

To delete a report:

1. Perform a search.
2. In the Results list, select the study you want to delete. You can select multiple studies, if desired.
3. Select the Settings icon.



4. Select **Study Delete**.



You are prompted to confirm the deletion.

5. Click **OK**.

The report is marked as deleted (the reports are then removed as part of a regularly scheduled automated cleanup task). This setting is configured by the administrator.

If you delete reports as described above, it may be possible to restore the deleted ECGs. See the *IntelliSpace ECG Management System Instruction for Use* for more details.

Caution

Before deleting a report, check with your system administrator to determine whether deleted reports can be restored.

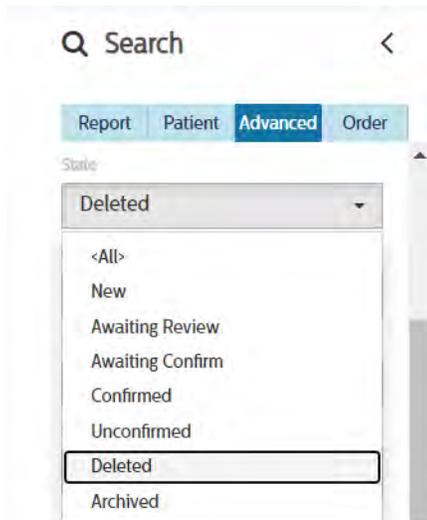
Restoring Studies

If you have the appropriate permissions, you can possibly restore previously deleted studies. "Possibly" because depending on when in the process you are trying to restore a study that has been marked as Deleted, it may no longer be in the IntelliSpace ECG database.

To restore the previously deleted studies:

1. Search for the previously deleted studies.

See “Using Advanced Search” on page 21, with the State set to **Deleted**.



2. Select the studies to restore.
3. Select the Settings icon.
4. Select **Restore**.
5. When prompted, confirm that you wish to restore the report.



When an ECG identical to an ECG marked as **Deleted** is imported, the ECG in the database is permanently deleted and the incoming ECG is successfully imported with status **New**.

Reporting Tool

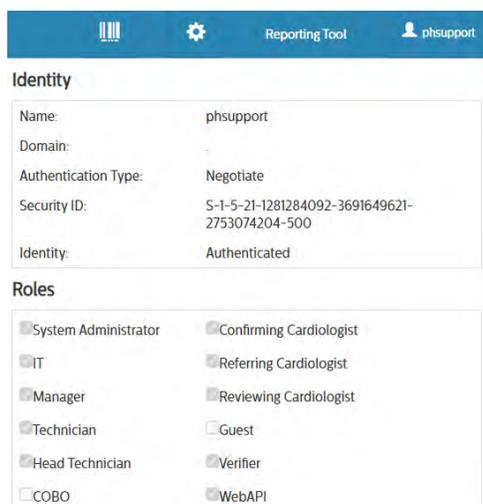
For the authorized users and administrators, reporting tool is provided to help you monitor ECG activity and track billing information. See *IntelliSpace ECG Web-Based Reports Manager Instructions for Use* for details.

Learning about the User Account

You can view the user account information:

1. After logging in, select the User icon. 

- The user's identification and roles are shown in the window:



The screenshot shows a window titled "Reporting Tool" with a user profile for "phsupport". The window is divided into two sections: "Identity" and "Roles".

Identity

Name:	phsupport
Domain:	.
Authentication Type:	Negotiate
Security ID:	S-1-5-21-1281284092-3691649621-2753074204-500
Identity:	Authenticated

Roles

<input checked="" type="checkbox"/> System Administrator	<input checked="" type="checkbox"/> Confirming Cardiologist
<input checked="" type="checkbox"/> IT	<input checked="" type="checkbox"/> Referring Cardiologist
<input checked="" type="checkbox"/> Manager	<input checked="" type="checkbox"/> Reviewing Cardiologist
<input checked="" type="checkbox"/> Technician	<input type="checkbox"/> Guest
<input checked="" type="checkbox"/> Head Technician	<input checked="" type="checkbox"/> Verifier
<input type="checkbox"/> COBO	<input checked="" type="checkbox"/> WebAPI

Note:

The user information are read-only. It is configured by the IntelliSpace ECG administrator.

- Click anywhere on the screen to dismiss the user information window.

Searching for Records

ECG Anywhere provides four search types and two search results views.

Search types are:

- *Report Search* allows you to search for ECG reports based on assignment, acquisition time period, and acquisition location (institution, facility, department).
- *Patient Search* allows you to search for reports for a specific patient.
- *Advanced Search* allows you to search for reports based on additional criteria.
- *Order Search* allows you to review orders that meet any combinations of the specified parameters, such as order number, date range, name, and so forth. You can also select and retrieve the ECGs that are associated with these orders.

You can also define a set of default search criteria, which are then automatically loaded every time you access the Search page.

Note:

ECG Anywhere only shows the most recent 500 studies that match the parameters. To view the entire IntelliSpace ECG database, you need to visit the IntelliSpace ECG Management System.

Either before or after performing a search, you can display the search results in one of two views. Search views are:

- *List*: displays search results in a list which you can then filter and sort.
- *Patient*: displays search results sorted by patient, grouping each patient's studies under the patient's name.

You can toggle between List and Patient views at any time.

The search results statistics bar (4) at the top of the search results displays a count of ECGs in the results based on their status, such as STAT, Abnormal, Normal, Approved, Ambulatory, Stress or Other Studies.

Note:

If desired, the Ambulatory, Stress, and Other Studies modalities can be hidden from the search results statistics bar (4). Refer to *Configuring IntelliSpace ECG* for more information.

List View

Figure 2-1 ECG Anywhere Report Search Screen, List View

The screenshot displays the IntelliSpace ECG Anywhere Report Search Screen in List View. The interface is divided into several sections:

- 1**: Search bar with a magnifying glass icon and a back arrow.
- 2**: Search parameters section with dropdown menus for Assigned To, Approved by, State, Institution, Facility, and Department. It also includes a date range selector for 'Acquired within the last' (100 Years) and checkboxes for 'Include other studies', 'Studies without matching order', and 'Include order status information'.
- 3**: Search button.
- 4**: Search results statistics bar showing filters for All reports (108), STAT (3), Abnormal (44), Normal (15), Approved (3), Ambulatory (36), Stress (1), and Other Studies (12).
- 5**: Action buttons: Select All, Assign, and Confirm.
- 6**: Summary bar showing 75 Patients / 108 Reports / 0 Selected.
- 7**: Column selector icon.
- 8**: Search results list with columns: ID, Name (9), Date, Type (10), Source, and Status.

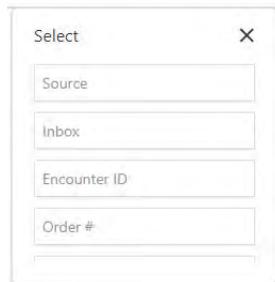
1	Search types
2	Search parameters
3	Search button
4	Search results statistics bar
5	Action buttons
6	Total patients and reports selected
7	Column selector (see page 15)
8	Search results list
9	Filter icon (see page 15)
10	Sort icon (see page 16)

Column Selector

When in List view, you can select which columns are displayed in the search results list. To select columns:

1. Click the column selector icon.
2. To display a column, drag the desired column header to the search results list.

5 Patients / 108 Reports / 0 Selected 



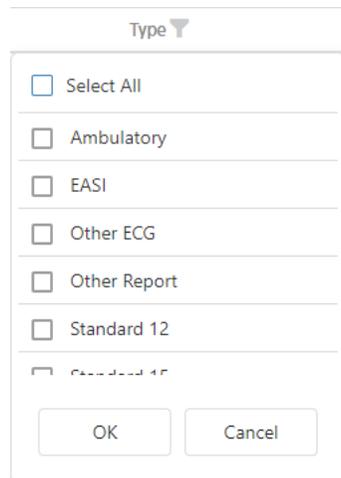
3. To hide a column, drag the column header from the search results list to the column selector window.

Filter

Some columns in List view allow you to filter the search results according to the information displayed in the column.

To filter results by column:

1. Click the Filter icon next to the column header you want to filter.
2. Select the parameter(s) by which you want to filter your search results, then click OK.



Note:

- *Only columns with the Filter icon will allow you to filter results in this manner. If the icon does not appear, you cannot filter results using that column.*

- You can select multiple parameters for filtering from one column, and also filter using multiple columns, so long as they allow filtering.

Sort

Some columns in List view allow you to sort the search results in ascending or descending order.



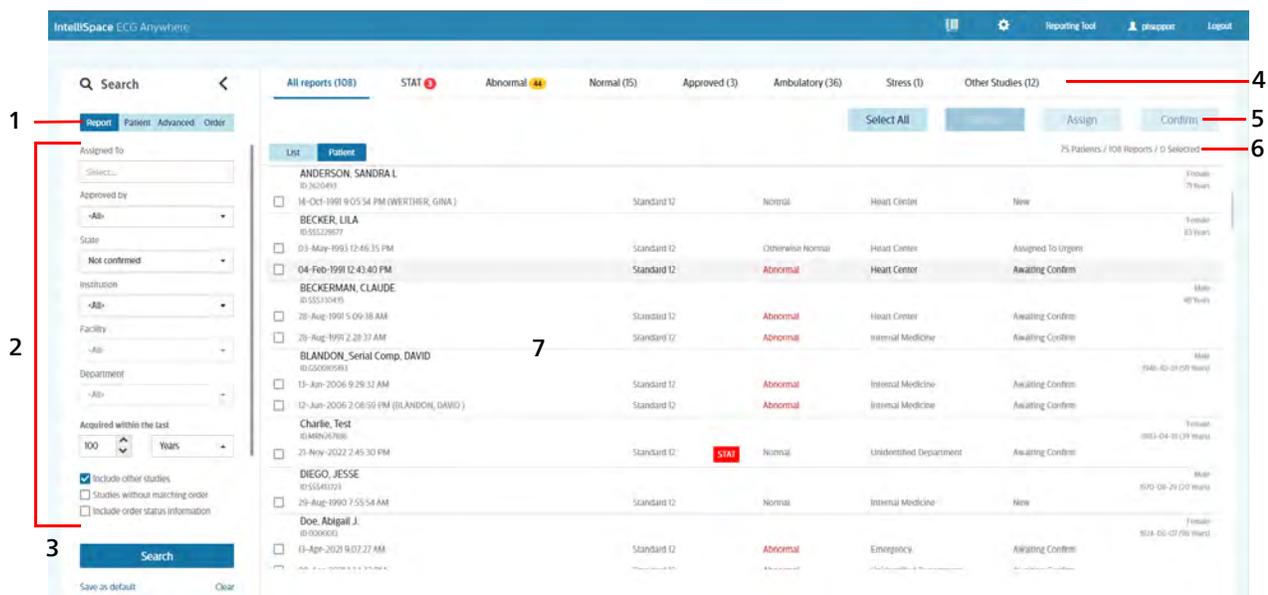
To sort results by column, click the Sort icon next to the column header you want to sort. An up arrow will indicate ascending sort order. A down arrow will indicate descending sort order.

Note:

Only columns with the Sort icon will allow you to sort results. If the icon does not appear, you cannot sort results using that column.

Patient View

Figure 2-2 ECG Anywhere Report Search Screen, Patient View



1	Search types
2	Search parameters
3	Search button
4	Search results statistics bar
5	Action buttons

6	Total patients and reports selected
7	Search results list

Using Report Search

ECG Anywhere uses the Report search by default.

To search for studies using Report Search:

1. Select the *Report* Search tab.

2. Specify one or more of the desired criteria.

Assigned to	Select the overreader assigned to the desired reports, or select <i>Unassigned</i> to display reports that have not yet been assigned to an inbox. Note: <i>You can select one or more Inboxes here.</i>
Approved by	Select the overreader who approved the desired reports. Note: <i>This selection needs to be configured in the system menu before it becomes available.</i>
State	Select the report state from the drop-down list to search for confirmed or not yet confirmed reports. Note: <i>The deleted and archived studies will not be retrieved here.</i>
Institution/Facility/ Department	Select the institution/facility/department associated with the desired reports.

Acquired within the last	Specify the time period in which the desired reports were acquired.
Include other studies	Check the box to include all study types.
Studies without matching order	Check the box to include the studies that are not associated with any orders. Note: <i>Once this box is checked, the Include order status information box is automatically checked.</i>
Include order status information	Check the box to include the order status information. The order status is indicated by a pink X, a yellow ? or a green ✓.

- To save your selections as a default search, click **Save as Default**. You can select **Clear** to remove all the selections.

Note:

"Include Other Studies" needs to be unchecked manually.

The specified criteria will be preloaded when you access the Search page until you select a new default.

- Select **Search** to retrieve matching studies.

Matching studies that you have permission to view appear in the Search Results list.

The search results statistics bar at the top of the list shows the total number of reports retrieved, by category.

Using Patient Search

To search for studies using Patient Search:

1. Select the *Patient Search* tab.

The screenshot shows a search interface with a 'Search' header and a back arrow. Below the header are four tabs: 'Report', 'Patient' (selected), 'Advanced', and 'Order'. The 'Patient' tab contains several input fields: 'Institution' and 'Facility' are dropdown menus currently set to '<All>'; 'MRN' is a text input field; and 'Last Name' is another text input field. Below these fields are four checkboxes: 'Include other studies' (checked), 'Include previous last names' (unchecked), 'Studies without matching order' (unchecked), and 'Include order status information' (unchecked). At the bottom of the form is a blue 'Search' button, with 'Save as default' and 'Clear' links below it.

2. Specify one or more of the desired criteria.

Institution/Facility	Select the institution/facility associated with the desired reports.
MRN (medical record number)	Type the medical record number associated with the desired patient. All ECGs that exactly match the data entered are retrieved.
Last name, First name	Type the patient name. Use a * to retrieve partial matches.
Date of Birth	Click into the field to select the patient's date of birth using the calendar tool, or enter the date of birth manually (format is dd-mmm-yyyy). Note: <i>mmm</i> stands for the abbreviation of the month. If the date is entered incorrectly, an icon  appears in the date field.
Include other studies	Check the box to include all study types.
Include previous last names	Check the box to include the patient under a prior last name.

Studies without matching order	Check the box to include the studies that are not associated with any orders. Note: <i>Once this box is checked, the Include order status information box is automatically checked.</i>
Include order status information	Check the box to include the order status information. The order status is indicated by a pink X, a yellow ? or a green ✓.

- To save your selections as a default search, click **Save as Default**. You can select **Clear** to remove all the selections.

Note:

"Include Other Studies" needs to be unchecked manually.

The specified criteria will be preloaded when you access the Search page until you select a new default.

- Select **Search** to retrieve matching studies.

Matching studies that you have permission to view appear in the Search Results list.

The search results statistics bar at the top of the list shows the total number of reports retrieved, by category.

Using Advanced Search

To search for studies using Advanced Search:

1. Select the *Advanced* Search tab.

The screenshot shows a search interface with a 'Search' header and a back arrow. Below the header are four tabs: 'Report', 'Patient', 'Advanced' (which is highlighted in blue), and 'Order'. Under the 'Advanced' tab, there are several input fields: 'Assigned To' with a dropdown menu showing 'Select...', 'MRN', 'Last Name', 'First Name', and 'Date of Birth'. Below these fields are three checkboxes: 'Include previous last names', 'Studies without matching order', and 'Include order status information'. At the bottom of the form is a blue 'Search' button, and below that are two links: 'Save as default' and 'Clear'.

2. Specify one or more of the desired criteria.

Assigned to	Select the institution/facility associated with the desired reports.
MRN (medical record number)	Type the medical record number associated with the desired patient. All ECGs that exactly match the data entered are retrieved.
Last name, First name	Type the patient name. Use a * to retrieve partial matches.
Date of Birth	Click into the field to select the patient's date of birth using the calendar tool, or enter the date of birth manually (format is dd-mmm-yyyy). Note: <i>mmm</i> stands for the abbreviation of the month. If the date is inputted incorrectly, an icon  appears in the date field.
State	Select the report state from the drop-down list. Report states include New, Awaiting Review, Awaiting Confirm, Confirmed, Unconfirmed, Deleted, or Archived.
Confirmed by	Select the person who confirmed the report from the drop-down list.

Severity	Select the severity statement from the drop-down list. Severity statements include No Severity, Normal, Otherwise Normal, Borderline, Abnormal, or Defective.
Source	Select the type of device on which the study was generated.
Type	Select the type of study (ECG, Ambulatory, Stress, Defibrillator, Other)
Start Date	Enter a start date for the search range.
End Date	Enter an end date for the search range.
User Field 1 to 8	Enter some user customized contents.
Include previous last names	Check the box to include the patient under a prior last name.
Studies without matching order	Check the box to include the studies that are not associated with any orders. Note: <i>Once this box is checked, the Include order status information box is automatically checked.</i>
Include order status information	Check the box to include the order status information. The order status is indicated by a pink X, a yellow ? or a green ✓.

- To save your selections as a default search, click **Save as Default**. You can select **Clear** to remove all the selections.

The specified criteria will be preloaded when you access the Search page until you select a new default.

- Select **Search** to retrieve matching studies.

Matching studies reports that you have permission to view appear in the Search Results list.

The search results statistics bar at the top of the list shows the total number of reports retrieved, by category.

Using Order Search

To search for studies using Order Search

1. Select the *Order Search* tab.

The screenshot shows a mobile application interface for searching orders. At the top, there is a search bar with a magnifying glass icon and a back arrow. Below the search bar are four tabs: 'Report', 'Patient', 'Advanced', and 'Order', with 'Order' being the active tab. The main area contains several input fields: 'MRN', 'Account #', 'Order #', 'Last Name', 'First Name', and 'Gender'. The 'Gender' field is a dropdown menu currently set to 'All'. At the bottom, there is a blue 'Search' button, a 'Save as default' link, and a 'Clear' link.

2. Specify one or more of the desired criteria.

MRN (medical record number)	Type the medical record number associated with the desired patient. All orders that match the data entered are retrieved.
Account #	Type the account number.
Last name, First name	Type the patient name. Use a * to retrieve partial matches.
Gender	Click into the field to select the patient's gender from the drop-down list. Gender includes All, Male, or Female.
DOB (date of birth)	Click into the field to select the patient's date of birth using the calendar tool, or enter the date of birth manually (format is dd-mmm-yyyy). Note: <i>mmm stands for the abbreviation of the month. If the date is inputted incorrectly, an icon  appears in the date field.</i>
Start Date	Enter a start date for the search range.
End Date	Enter an end date for the search range.
Outbox	Click into the field to select the outbox from the drop-down list.

Status	Select the order status from the drop-down list. Report statuses include Canceled, Completed, or New.
--------	---

3. To save your selections as a default search, click **Save as Default**. You can select **Clear** to remove all the selections.

The specified criteria will be preloaded when you access the Search page until you select a new default.

4. Select **Search** to retrieve matching orders.

Matching studies that you have permission to view appear in the Search Results list.

The search results statistics bar at the top of the list shows the total number of reports retrieved, by category.

Retrieving ECGs by Scanning Barcode

If your site supports bar code use, you can use a key wand or bar code scanner to read the bar code printed on an ECG report to retrieve that report.

To retrieve ECGs by barcode

1. Select the Barcode icon. 

The Scan Barcodes box appears. As you scan bar codes, the encoded numbers appear in the read-only field. This is just for display purposes; do not type in this field.

2. Scan the barcode using either a key wand or scanner, as follows:
 - If using a key wand, hold the wand as you would a pencil and place the tip of the wand on the white space at the beginning of the bar code.

Press down lightly and move the wand smoothly across the entire bar code.

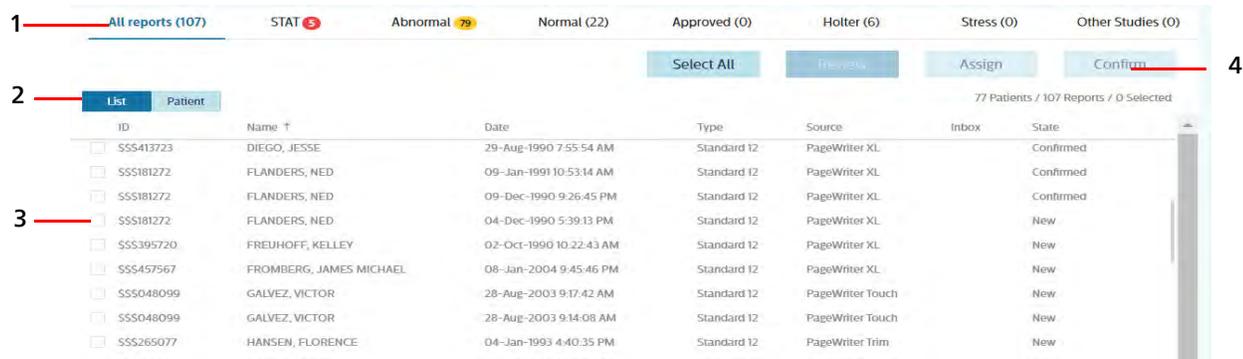
- If using a scanner, place the bar code no more than 4 inches away from the scanner, and pass the beam smoothly across the code.
3. When you are finished, click **Done**.

The report retrieved appears in the Search Results list.

Working with the Search Results

By default, the search results are displayed on the **List** tab.

Figure 2-3 Search Results functions - List tab



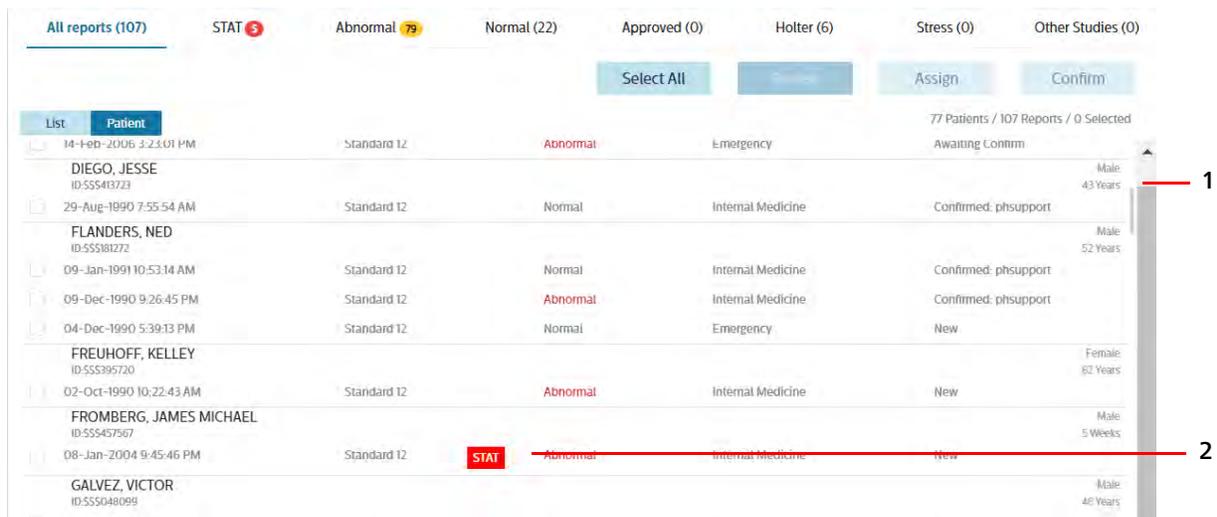
1	Report state filter bar: <i>All reports, STAT, Abnormal, Normal, Approved, Ambulatory, Stress, Other Studies.</i> Note: <i>If Asynchronous Confirm is enabled, there will be an additional Message filter bar. See "Asynchronous Confirm" on page 54 for more information.</i>
2	Search Results display tab
3	Report selection check box
4	Action buttons: Select All, Review, Assign, Confirm These controls allow you to apply the settings to multiple studies at one time. Check multiple studies in the results list, then click the appropriate button to apply the setting to the selected studies.

You can filter the list by any of seven categories: *STAT, Abnormal, Normal (includes Normal and Otherwise Normal), Approved, Ambulatory, Stress, and Other Studies.* You can also select one or more reports to confirm directly on the Search page or to review in detail on the Review page.

The following information is provided when available: MRN, patient name, acquisition time, Type, Source, Inbox, State.

Alternatively, you can select the **Patient** tab, where all reports associated with a patient are presented as a group in ascending alphabetical order.

Figure 2-4 Search Results functions - Patient View



1	<p>Patient's age</p> <p>If more than one studies are displayed, this is the age of the patient when the newest study took place.</p>
2	<p>STAT indicator, to mark a STAT study for easy identification</p>

Filtering the Search Results

The filter bar at the top of the Search Results list (Figure 2-3 Search Results functions - List tab) provides seven categories by which you can organize the retrieved reports. Each category shows the number of reports retrieved that match the filter.

To filter the search results, select the desired filter to show only those reports that match. For example, to show only abnormal ECGs, touch the *Abnormal* filter button. Or, to show only approved ECGs, touch *Approved*.

A blue bar (a white bar in dark theme) is displayed under the selected filter setting (in Figure 2-3 Search Results functions - List tab, *STAT*).

To display the full list, select **All reports**.

Selecting Studies

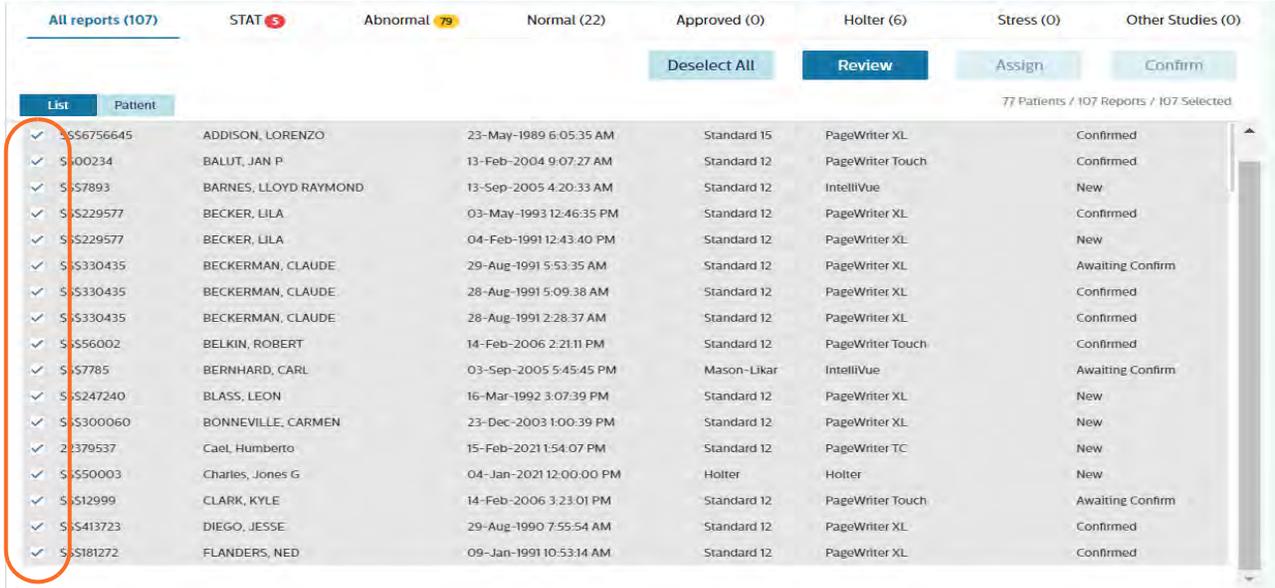
While the list may show multiple entries for a single patient, you must select the specific studies to edit or confirm.

To select studies to work with, do one or more of the following:

- To select one or more individual studies associated with a patient, select the check box to the left of the study on the **List** tab to process.
- To select all of the studies associated with a patient, go to the **Patient** tab, click the patient's name area to process.

- To select all of the studies in the search results, select the **Select All** button above the search results (see Figure 2-5 Selecting reports in the Search Results List View). All of the studies are checked, and the **Select All** button shows as **Deselect All**.

Figure 2-5 Selecting reports in the Search Results List View



You can now assign, verify, confirm or review the selected studies, as described in the next section.

Assigning Studies on the Search page

You can manually assign unconfirmed reports to a specific inbox directly from the Search Results page.

To assign studies directly on the Search page:

- Select the studies to assign.
- Select the **Assign** button.
- From the **Assign** dialog box, choose the desired inbox from the drop-down list, then click **OK**. The selected studies will be associated with the selected inbox.



If there is no inbox configured, the system prompts a cannot assign message. You should ask your administrator to configure the inboxes in the system menu.

Confirming Studies on the Search page

You can confirm one or more reports directly in the Search Results list.

Note:

- *The ability to batch confirm ECGs is enabled or disabled site-wide by your IntelliSpace ECG administrator. If you have the required permissions to batch confirm ECGs, but cannot confirm a set of ECGs on the Search page, it is possible that this feature is disabled at your site. Contact your administrator to enable this feature.*
- *If re-authentication for confirmation is enabled at your site, you are prompted, once, to re-enter your user credentials to successfully confirm the batch of ECGs.*
- *PDF studies cannot be batch confirmed.*

To confirm studies directly on the Search page:

1. Select the studies to confirm.
2. Select the **Confirm** button to confirm the selected ECGs as a batch directly from this page, without viewing them first.

Note:

This action is appropriate if the ECGs have already been reviewed, but not confirmed.

3. The Confirm prompt will be displayed. Click **OK** to confirm the selected studies.



Selecting Studies to Review

To review one or more reports:

1. Select the studies to review.
2. Select the **Review** button to load the selected studies onto the Review page.

Note:

When reviewing PDF studies on an iPad, only the first page of the report can be viewed.

Working with ECGs

Patient records are loaded onto the Review page in alphabetical order, with ECGs for each patient organized in date-acquisition order, from left to right, starting with the most recent report on left.

Overview

The Review page displays a comprehensive overview of a patient's ECG data, including patient information and demographics, measurements, interpretive statements, and waveforms.

The Review page closely resembles the printed ECG report, with the addition of two toolbars. See Table 3-1 for an explanation of the icons on the toolbars, see Figure 3-1 ECG Anywhere Review Screen for the illustrated Review page.

This section highlights the different ways to work with ECGs and patient records. In addition to navigating your selected reports, it is also important to understand how to view details and make changes to the reports.

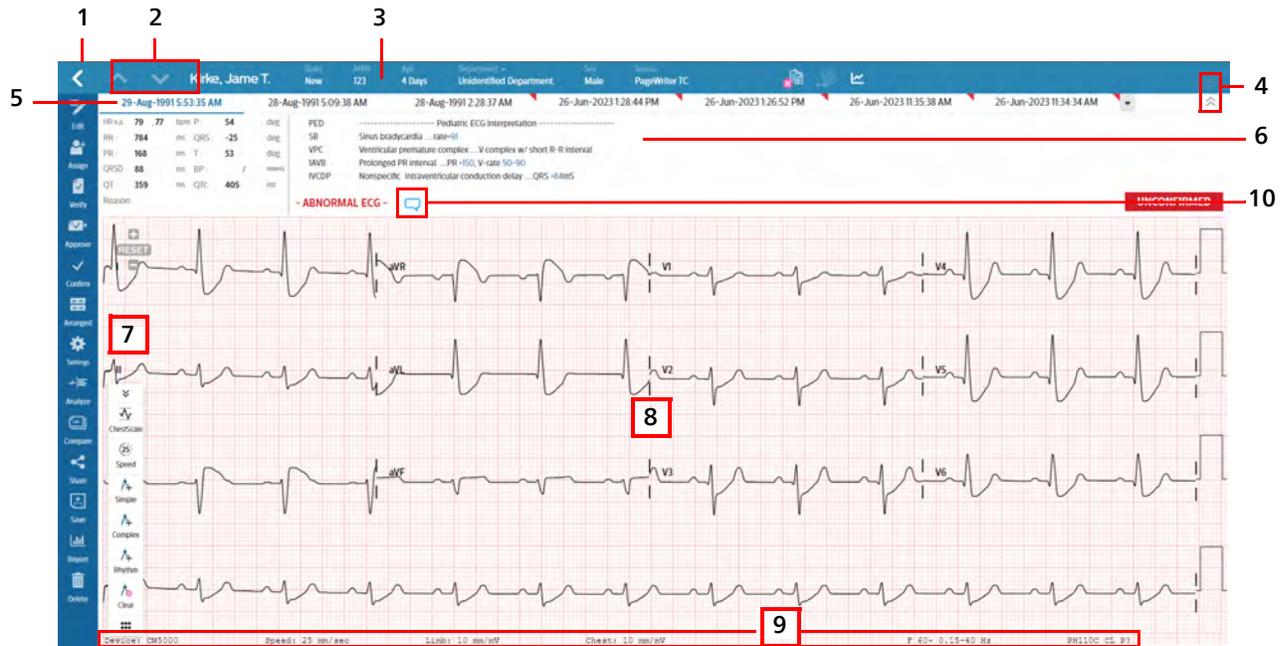
Table 3-1 ECG Anywhere ECG Review Toolbars

Icon	Description	Icon	Description
Primary Toolbar			
	Search button (return to Search page)		Enable Edit mode
	Assign the report to an inbox		Verify the report data
	Approve/Unapprove		Confirm/Unconfirm ECG

Table 3-1 ECG Anywhere ECG Review Toolbars (*Continued*)

Icon	Description	Icon	Description
 Arranged	Arrange the ECGs	 Settings	Change report layout/leads, filters, and scale/speed of waveforms
 Analyze	Perform algorithmic analysis	 Compare	Compare two serial ECGs
 Share	Share report	 Save	Save changes
 Report	Display the report information in an extended view Note: <i>Read-only</i>	 Delete	Delete the record
Secondary Toolbar			
	Collapse or expand the secondary toolbar	 ChestScale	Toggle the chest scale between full and half (see page 47)
 Speed	Toggle the sweep speed between 25 and 50 (see page 47)	 Simple	Create a simple caliper (see page 44)
 Complex	Create a complex caliper (see page 44)	 Rhythm	Create a rhythm caliper (see page 44)
 Clear	Clear all calipers (see page 44)		

Figure 3-1 ECG Anywhere Review Screen



1	Search button (returns to Search page)	2	Patient record navigation buttons
3	Patient demographics bar	4	Show/hide controls for extended patient demographics bar and measurements and statements
5	ECG headers for ECGs selected on Search page (blue bar under displayed ECG), and any additional ECGs available (red triangle)	6	Measurements and statements panel and confirmation status
7	Primary and Secondary toolbars (see Table 3-1)	8	ECG waveforms
9	Additional acquisition information	10	When present, select to review comments from a senior cardiologist to a reviewer. Note: This feature is used during the Approve/Unapprove process.

Displaying Patient Reports

To view different reports for the selected patient, select the ECG header for the report to display. All available ECGs for the patient selected on the Search page are listed.



The ECG headers provide access to the available ECGs for the selected patient, and show the date and time the associated ECG was acquired. Note the following:

- Tabs are organized in date-acquisition order, from left to right, starting with the most recent report on left.
- The blue header text and a bar under the header indicates the currently active report.
- A red triangle symbol on the top right corner of the header indicates an unconfirmed report.

Note:

Only those ECGs specifically selected on the Search page are editable. The rest of the ECGs loaded for the same patient are for reference purpose.

To view reports for a different patient, select the patient navigation arrows (left side of the Patient Demographics bar) to cycle forward and backward, alphabetically, through the list of patient records.



Expanding/Collapsing Patient Demographics

By default, only the essential patient demographics are displayed in the dark bar at the top of the page. The patient name, MRN, acquisition location, age, gender and state are always displayed, as well as the red STAT box, when appropriate.

The extended demographics bar shows the following information, when available: source, order number, room number, user fields, requesting physician, account number, cardiograph operator and any ICD code(s) assigned to the study.

To expand/collapse the extended patient demographics bar, select the gray chevrons at the right edge of the dark bar to toggle the display between basic and extended demographics.

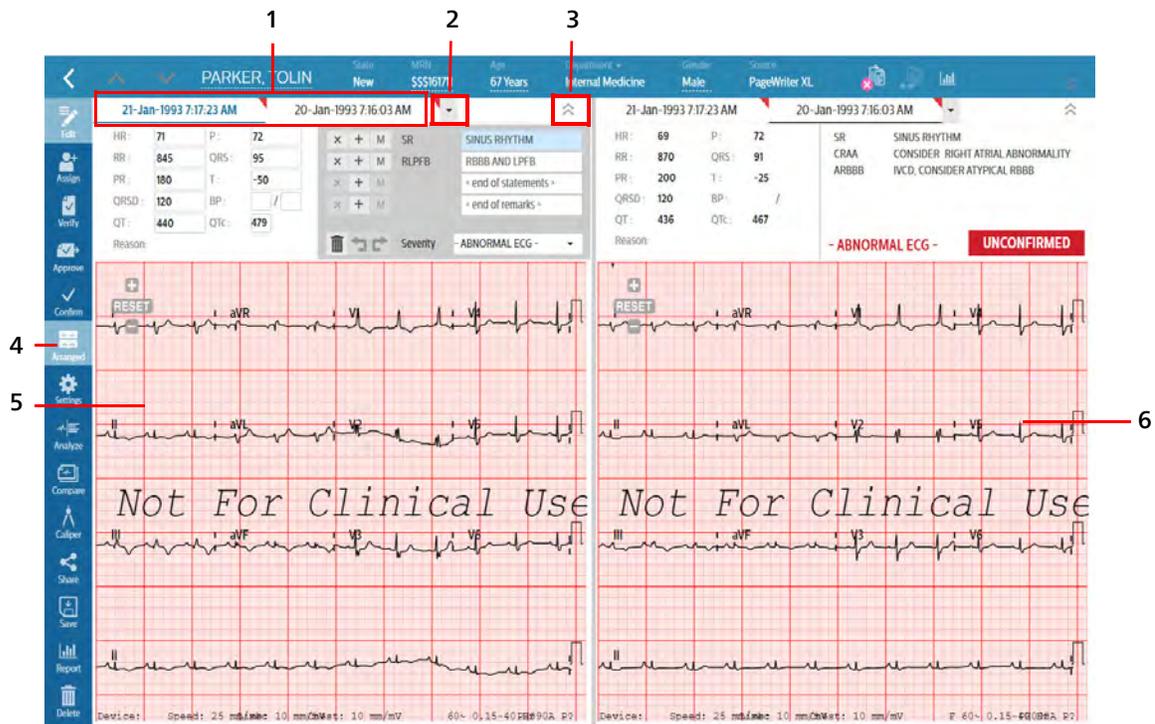


Displaying Two ECGs Simultaneously

You can view two ECGs for a patient simultaneously. The ECGs can be:

- stacked vertically, with the current reference ECG on top and the previous comparison ECG on the bottom.
- displayed horizontally side-by-side, with the current reference ECG on the left and the previous comparison ECG on the right.
- displayed horizontally, with the originally acquired ECG on the left, and the superimposed representative beats on the right.

Figure 3-2 Displaying two ECGs (side-by-side), illustrated



1	ECG headers (reference ECG is marked with blue, comparison ECG is marked with gray)	2	ECG selector. Note: Available when the space is not enough to display all headers. Click to select the ECG from the drop-down list.
3	Show/hide measurements and statements	4	Arranged button
5	Reference ECG	6	Comparison ECG

To display two ECGs for review:

1. Open the patient’s ECGs in the Review page.
2. Select **Arranged** in the toolbar page 30.

3. Select **Stack** or **Side by Side**.

The system splits the screen to show two ECGs:

- The top/left half of the page is the *reference* ECG, with the header text in blue and a blue bar under the header.
- The bottom/right half of the page is the *previous comparison* ECG, with the header text in black and a gray bar under the header.

In the **Stack** mode, the measurements and statements view is, by default, collapsed for the *previous comparison* ECG.

You can now do the following:

Task	See ...
Display a superimposed, representative beat from both ECGs	page 35
Drag one ECG over the other to compare morphology	page 36
Switch the reference/comparison ECG	page 37
Change display options for both ECGs	page 39
Show/hide the measurements and statements view of either ECG	page 39
Edit measurements and statements in the reference ECG	page 39
Review any of the waveforms in more detail for either ECG	page 43
Analyze the reference ECG	page 48
Approve or unapprove the reference ECG	page 52
Confirm the reference ECG	page 53
Share the report	page 55
Delete an ECG	page 57

Displaying a Superimposed Beat

To show the superimposed representative beat view:

1. Select the ECG to display.
2. Select **Arranged** in the toolbar page 30.
3. Select **Superimposed**.

The superimposed representative beats appear on the right:



Note:

The representative beat display (on the right) is shown in double standard resolution. That is, the vertical resolution is 50 uV/small box; the horizontal resolution is 40 msec/small box.

Comparing Morphology

To compare the morphology of two ECGs:

1. Select the ECG to display.
2. Select **Arranged** in the toolbar page 30.
3. Select **Stack** or **Side by Side**.

- Click and drag the comparison ECG (right side or bottom, depending on your arrangement) over the review ECG (left side or to), aligning the ECG waveforms.



- When you are done, release the mouse button.

Switching the Reference/Comparison ECG

You can change the reference ECG and the comparison ECG.

To change the reference ECG (top/left), in the top/left half of the page, select the ECG header of the ECG to use as the primary reference ECG.

The selected report is loaded into the top/left half of the page as the reference ECG, with the ECG header in blue text, and a blue bar under the header.

In addition, the next ECG in the list is automatically loaded as the comparison ECG into the bottom/right half of the page. The page shows a gray bar under the associated ECG header.

To change the previous comparison ECG (bottom/right), in the bottom half of the page, select the ECG header of the ECG to use as the previous comparison ECG.

The page shows a gray bar under the associated ECG header.

Setting Report Display Options

The waveform display is configurable for each ECG using the Filter and Layout tools.

- Change format and/or lead configuration
- Change speed and/or scale
- Specify filters

Note:

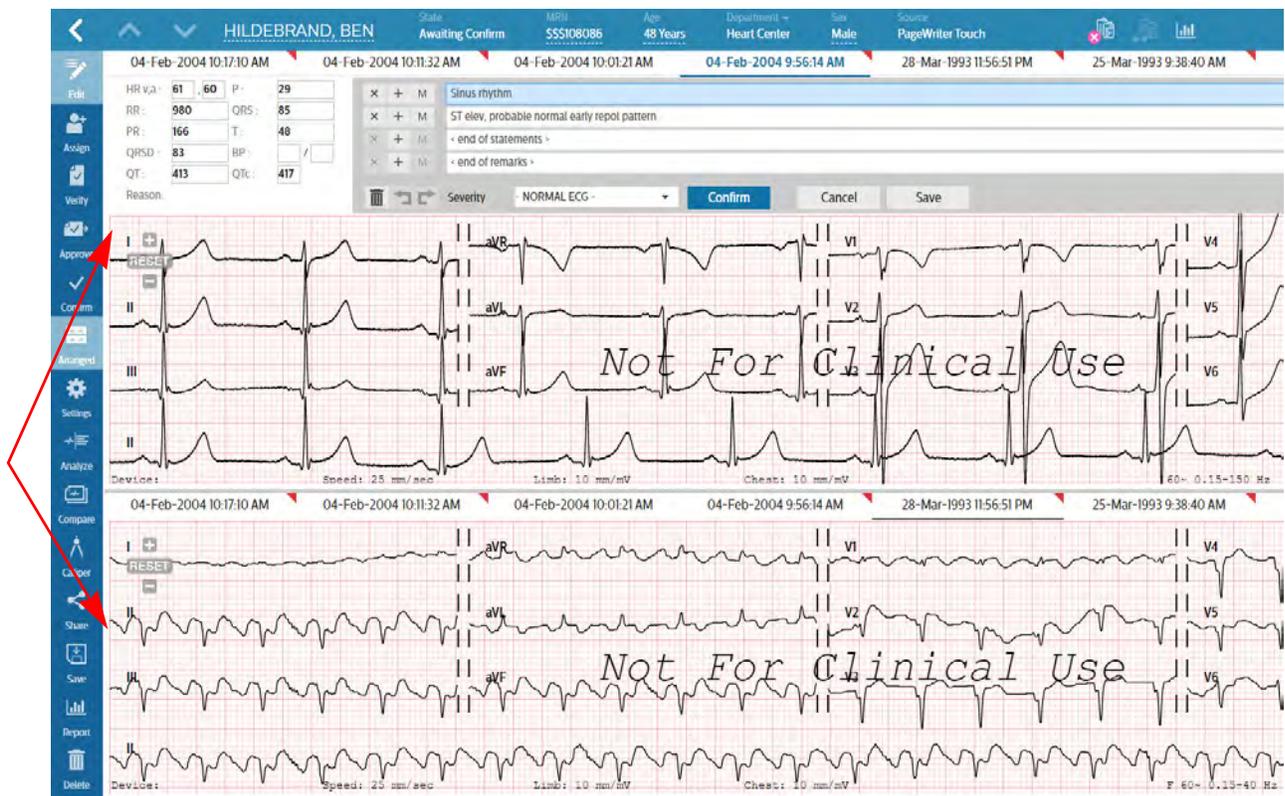
These settings apply only to the display of the ECG within the application. ECG reports are always printed using the settings configured on the acquiring device.

Detailed information about the clinical report components and formats is provided in the *Philips Algorithm Physician Guides*.

Selecting the ECG to Work with

If working with two ECGs on the display, touch/click anywhere in the waveform area to select the ECG report to work with.

A thin blue line appears around the report. In this example, the reference ECG on top is selected.



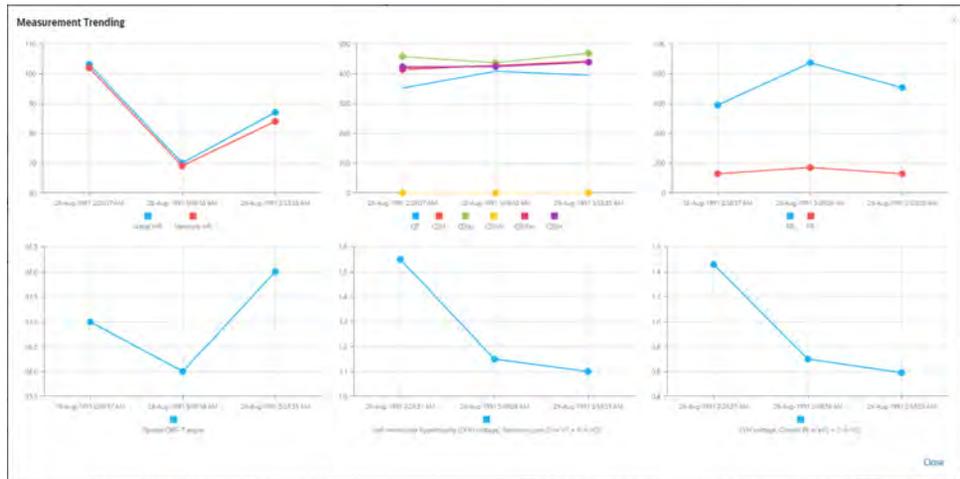
Trending

If a patient has multiple studies, you can display trending for that patient. To display trending for the patient,



1. Click the Trending icon at the top of the screen.

- Trending for all selected reports will be displayed. ECG report dates and times included in the trending graphs are listed at the bottom of each graph.



- To compare a particular ECG on the trending report to the current ECG, click the corresponding dot on any graph. The ECG will open in side by side mode and can be compared to the ECG you are reviewing.
- Click **Close** to return to the ECG display.

Working with Measurements and Statements

By default, the report measurements and statements are displayed. This section of the report shows global measurements, statements and codes, severity, and reason for acquiring ECG, as well as the confirmation status.

To show/hide the measurements and statements bar, select the gray chevrons at the right edge of the light gray bar to toggle the display between showing and hiding measurements and statements.



Editing Demographics, Measurements and Statements

You can edit patient demographics fields, measurement values, change the severity, and also add, edit, or remove statements.

Figure 3-3 Editing Measurements/Statements

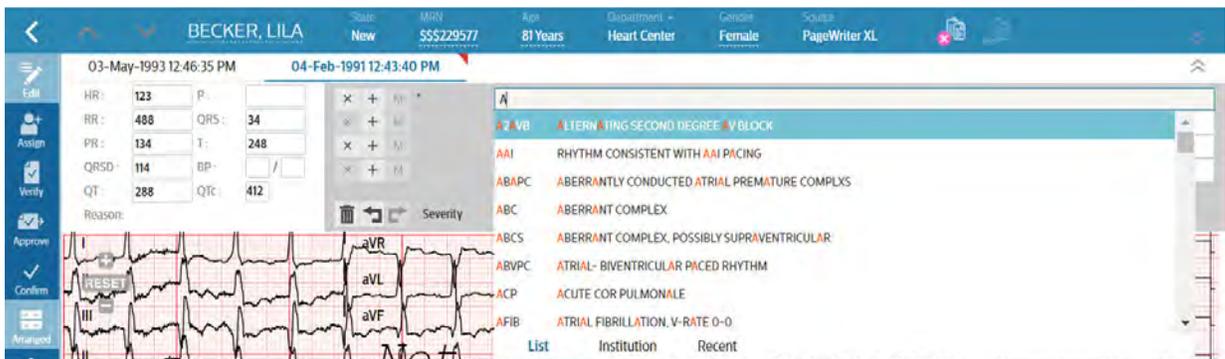


1	Editable measurement fields	2	Delete statement (X)
3	Add statement above row (+)	4	Add modifier (M)
5	Statements	6	Delete, Undo/Redo
7	Severity		

To edit measurements and statements:

1. Ensure the measurements and statements are displayed, click the control at the right end of the bar.
2. Select **Edit** in the toolbar page 30.

The measurements are now shown in editable fields and editing tools are displayed in the statement block.



3. Edit fields as follows:

Edit a measurement	<p>Click/touch the field and change the value.</p> <p>When a keyword is entered in the statement field, all the statements whose code and/or LHS (depending on the setting in Statement Search) will appear in the drop-down list, with the keyword in red text.</p> <p>Note: <i>You can also update measurements using the caliper. See "Using the Electronic Caliper" on page 44.</i></p>
Delete a statement	<p>Select the X button to the left of the statement to delete.</p>
Add a statement	<p>Select the + button to add a statement and start typing, or select from one of the following lists:</p> <ul style="list-style-type: none"> • List: displays all preconfigured diagnostic statements; • Institution: displays all diagnostic statements configured for your institution; • Recent: displays your 20 most recently used diagnostic statements. <p>As you type a code or text, the system automatically displays matching entries. Select a match at any time.</p> <p>Note: <i>ECG Anywhere attempts by default to match the preconfigured statement lists using a function called "fuzzy search." You can deactivate fuzzy search by holding CTRL+ALT+SHIFT+F to deactivate the fuzzy search function. This will allow you to type or dictate statements directly without having to select from a list. To reactivate the list function, hold CTRL+ALT+F..</i></p>
Add a modifier	<p>Select the M button to add a modifier to the statement.</p>
Change the severity	<p>Select the desired entry from the <i>Severity</i> drop-down list.</p>
Undo an action	<p>Select  (Undo) to undo the last delete/add/modifier action.</p>
Redo an action	<p>Select  (Redo) to cancel the last Undo operation and reinstate the change.</p>
Delete all statements	<p>Select  (Delete all) to delete all the statements.</p>

4. Select the **Save** button under the statement area to save the changes to the statement, or select **Cancel** to ignore the changes.
5. To edit patient demographics, click on the demographics bar to expand it, or click the control at the right end of the bar.

- Select the **Edit** button, fields that can be edited are underscored.

State: Awaiting Confirm	MRN: \$\$\$330435	Age: 48 Years	Department: Emergency	Gender: Male	Source: PageWriter XL
Order #	Type: Standard 12	DOB	Height: 65 in	Weight: 110 lb	Inbox
Account #	Race	Req MD	ECG Tech	Room: 6	Device
User Field 1	User Field 2	User Field 3	User Field 4	Rx	
User Field 5	User Field 6	User Field 7	User Field 8	Dx	

- Click on one of the editable fields and enter new data, or change existing data. You can collapse the bar when finished by clicking on it, or clicking the control at the right end of the bar.

Last Name: BECKERMAN	State: Awaiting Confirm	MRN: \$\$\$330435	Age: 48 Years	Department: Emergency	Gender: Male	Source: PageWriter XL
First Name: CLAUDE	Order #	Type: Standard 12	DOB	Height: 65 in	Weight: 110 lb	Inbox
Middle Name:	Account #	Race	Req MD	ECG Tech	Room: 6	Device
User Field 1	User Field 2	User Field 3	User Field 4	Rx		
User Field 5	User Field 6	User Field 7	User Field 8	Dx		

- Select the **Save** button in the toolbar to save the changes to the report.
- Exit editing mode by selecting the **Edit** button in the toolbar again.

Using Speech Recognition

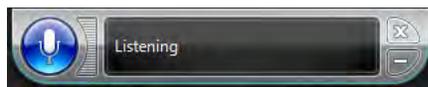
Beginning in version B.02.06, you can use Windows Speech Recognition to dictate statements into your ECG report.

Note:

- Speech Recognition is available with Windows 10 and higher.*
- Refer to Configuring ISECG to configure your computer for Speech Recognition.*

To dictate a statement:

- Ensure that Speech Recognition is enabled and listening



- Click + to add a statement and begin dictating.
- When finished, say "Insert." Your statement will appear in the window.
- Continue to add statements as desired.

Continue to add statements as desired. After you have completed all statements, click **Save** to record the changes.

Note:

ECG Anywhere attempts by default to match the preconfigured statement lists using a function called "fuzzy search." You can deactivate fuzzy search by holding CTRL+ALT+SHIFT+F to deactivate the fuzzy search function. This will allow you to type or dictate statements directly without having to select from a list. To reactivate the list function, hold CTRL+ALT+F.

Reviewing Waveform Details

You can zoom into the display to view any portion of the waveform, or the caliper, in detail. The display changes magnification in preset increments, up to three levels of zoom after which it returns to the full waveform view.

To zoom into/out of the waveforms:

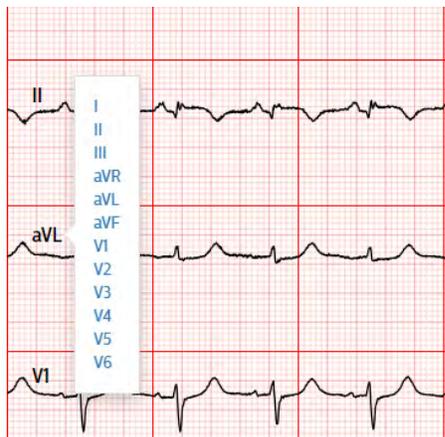
1. Select the waveform to work with if needed page 34.
2. Move the cursor to the place that you want to magnify, rotate the mouse wheel forward to enlarge the waveform to the next level. There are three levels. Rotate the wheel backward to reduce the waveform.

When the waveform is enlarged, you can click and drag the waveform to the portion where you want to view.

3. When reviewing the waveforms, use the zoom tool in the top left corner of the ECG waveform area. Touch **+** (zoom in) to enlarge the waveform to the next level, or touch the **-** (zoom out) to reduce the waveform to the next level. Touch **RESET** (reset) to reset the waveform to full waveform.



4. You can easily change a rhythm lead by clicking on the label and selecting a different lead from the pop-up list.



Using the Electronic Caliper

There are three types of caliper: **Single**, **Complex** and **Rhythm**.

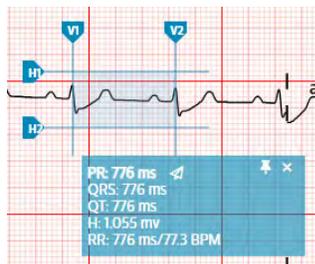
Note:

- *To ensure accuracy, all measurements of the online waveforms must be made using the electronic calipers supplied within ECG Anywhere.*
- *When displaying stacked or side by side ECGs, the caliper will appear on both ECGs simultaneously. Each caliper can then be adjusted separately.*

The simple caliper can be applied to waveform data in order to make a predefined set of measurements. To create a simple caliper:



1. Click **Simple**. The caliper will appear at the top left corner of the ECG.



2. Click into the shaded area on the waveform and drag the caliper to the desired lead.
3. Adjust the height and width of the caliper by clicking and dragging the borders of the shaded area. The measurements will change as you adjust the caliper.



4. To update a measurement reported on the ECG, click the **Send** icon next to the measurement. The new measurement will automatically update the editable measurement field above the waveform.

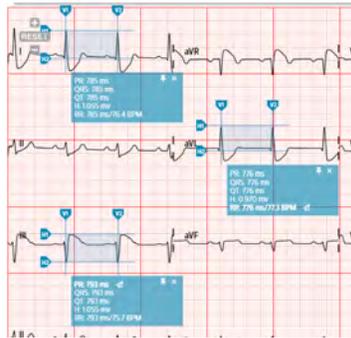
5. You can also use the following hot keys to send measurements:

- **r**: sends the RR interval
- **q**: sends the QT interval
- **s**: sends the QRS interval
- **p**: sends the PR interval



6. To move the measurement box separately from the caliper, click the pushpin. You can then drag the box to a different location on the screen. Clicking the pushpin again will restore the box to its default position.

- To add additional calipers, click **Simple** again. Move and adjust each additional caliper as desired.

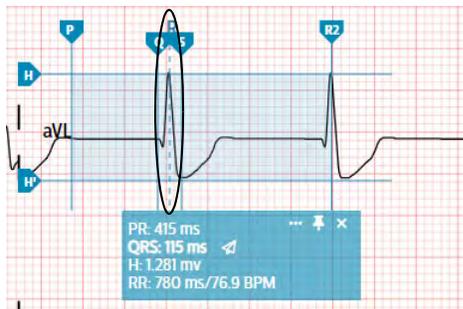


- To delete a particular caliper, click the X in the measurement box.
- To delete all calipers, click **Clear**.



A complex caliper can be applied to waveform data in order to make a predefined set of measurements, but you can determine which measurements are displayed.

- Click **Complex**. The caliper will appear at the top left corner of the ECG.



- Click into the shaded area on the waveform and drag the caliper to the desired lead. Align the R line (dotted vertical line circled above) with the R wave of a beat on the lead you selected.
- Adjust the height and width of the caliper by clicking and dragging the borders of the shaded area. The measurements will change as you adjust the caliper.
- To select the measurements to be displayed by the caliper, click the ellipse (...). The caliper configuration window will open, allowing you to customize the caliper display.

Configure Caliper

Zoom with waveform

Show

P Q S T R2 Ht

Measure

RR PR (P-Q) QRS QT Ht Show units

Save as default Restore factory defaults Cancel **OK**

5. To save your settings as the defaults, click **Save as default**. To restore the factory settings, click **Restore factory defaults**.
6. To update a measurement reported on the ECG, click the **Send** icon next to the measurement. The new measurement will automatically update the editable measurement field above the waveform.
7. To move the measurement box separately from the caliper, click the pushpin. You can then drag the box to a different location on the screen. Clicking the pushpin again will restore the box to its default position.
8. To add additional calipers, click **Complex** again. Move and adjust each additional caliper as desired.
9. To delete a particular caliper, click the X in the measurement box.
10. To delete all calipers, click **Clear**.



The rhythm caliper is designed to check if the beat-to-beat measurement is consistent across the whole strip.

To display the rhythm caliper:

1. Click **Rhythm**. The caliper will appear at the top left corner of the ECG.



2. Click into the shaded area on the waveform and drag the caliper to the first T-wave of the ECG waveform. The following lines should match with all other T waves.
3. By default, there are five lines in a rhythm caliper. You can include the entire ECG by clicking the **+** button or return to the default by clicking the **-** button.
4. To delete the rhythm caliper, click the X in the measurement box, or click **Clear**.

Note:

Only one rhythm caliper can be displayed at a time.

Setting Waveform Layout, Filter, Scale, and Speed Options

For details about leads, filters, scale, and speed settings, refer to the *Philips Algorithm Physician Guides*.

To set the waveform layout, lead configurations, scale, and or speed options:

1. Select the ECG to change and select **Settings** in the toolbar page 30.

The Layout dialog box appears. Depending on whether the ECG is a 12-lead, 15-lead or 16-lead, several different options may be available.

12-Lead Layout Options

15/16-Lead Layout Options

2. Choose the desired options and select **Done**.

Lead configuration	The available lead configurations depend on the ECG being displayed.
Lead sequence	Options are Standard or Cabrera, Time sequential or simultaneous.
Lead groups	Options are: <ul style="list-style-type: none"> • II, aVF, V5 • I, II, III • aVR, aVL, aVF • V1, V2, V3 • V4, V5, V6 • aVF, V2, V5 • V3R, V4R, V7 (15- or 16-lead) • V4R, V3R, V1 (15- or 16-lead) • V6, V7, V8 (16-lead only)
Rhythm lead	If using a layout with one or more rhythm strips, choose the lead for each one.
Speed (mm/sec)	Options are 25, 50
Limb Scale (mm/mv)	Options are 2.5, 5, 10, 20
Chest Scale	Options are Full, Half

The changes are applied immediately.

To change the filter settings:

1. Select **Settings** in the toolbar page 30, then select the Filter tab.

The Filter dialog box appears.

	Layout	Filters	Representative Beats
Low Pass	40 Hz <input type="radio"/>	100 <input type="radio"/>	150 <input checked="" type="radio"/>
High Pass	0.05 Hz <input checked="" type="radio"/>	0.15 <input type="radio"/>	0.5 <input type="radio"/>
AC Filter	Off <input type="radio"/>	50 <input type="radio"/>	60 <input checked="" type="radio"/>
Artifact	On <input type="radio"/>	Off <input checked="" type="radio"/>	

Cancel Done

2. Select the desired filter settings, and select **Done**. The changes are applied immediately.

To change the representative beats settings:

1. Select **Settings** in the toolbar page 30, then select the Representative Beats tab.

The Representative Beats dialog box appears.

Layout	Filters	Representative Beats
<input checked="" type="checkbox"/> I	<input checked="" type="checkbox"/> aVR	<input checked="" type="checkbox"/> V1
<input checked="" type="checkbox"/> II	<input checked="" type="checkbox"/> aVL	<input checked="" type="checkbox"/> V2
<input checked="" type="checkbox"/> III	<input checked="" type="checkbox"/> aVF	<input checked="" type="checkbox"/> V3
		<input checked="" type="checkbox"/> V4
		<input checked="" type="checkbox"/> V5
		<input checked="" type="checkbox"/> V6

Cancel Done

2. Select the desired representative beats settings, and select **Done**. The changes are applied immediately.

Analyzing ECGs

IntelliSpace ECG supports performing analysis of an ECG directly on the system using the latest Philips DXL algorithm. If enabled on the system, users with the appropriate permissions can select the **Analyze** option. The system analyzes the ECG and displays the results. You can review the results, and if they are acceptable, save them with the ECG.

This is an option that is controlled by the ISECG administrator, together with parameters that determine how the analysis is performed. If you have questions about the options set at your facility, contact your administrator.

For details about the algorithm, see the *Philips DXL Algorithm Physician's Guide*, provided on the *IntelliSpace ECG Documentation and Training CD*, and available through the **Help** menu.

Note:

- *ECGs to be analyzed must have 10 seconds of 500 Hz waveform data.*
 - *If the **Analyze** button is not available, you do not have the appropriate permissions to use the function or the ECG does not have 10 seconds of 500Hz waveform data. Contact your ISECG administrator.*
 - *You cannot undo an analysis once the results are saved with the ECG to the database.*
 - *The interpreted ECG with measurements and interpretive statements is offered to the clinician on an advisory basis only. It is to be used in conjunction with the clinician's knowledge of the patient, the results of the physical examination, the ECG tracings, and other clinical findings. A qualified physician is asked to over read and validate (or change) the computer generated ECG interpretation.*
-

To perform an analysis on an ECG:

1. Select and display the ECG to analyze.
2. Select **Analyze**. IntelliSpace ECG analyzes the ECG using the DXL Algorithm and displays the results in the Interpretive Statements window.
3. You can make additional edits to the ECG.
4. To save the changes and incorporate the statements into the ECG record, select **Save**. If you do not select **Save**, the interpretation is not saved with the ECG.

Comparing ECGs

You can perform a comparison between the current ECG and the most recent ECG that meets the configured criteria. IntelliSpace ECG can also be configured to automatically perform serial comparison when a certain action takes place, for example, specific ECGs enter the system. For details, contact your system administrator.

Caution

Please review the *Serial Comparison Algorithm Reference Guide*, included on the User Documentation DVD, to ensure that results are interpreted correctly.

To perform a manual serial comparison between two ECGs:

1. Search for and display the ECG to compare for a specific patient.

This is the ECG that IntelliSpace ECG will compare to the most recent previous ECG (that meets the comparison criteria) for this patient.

2. Select **Compare**.

IntelliSpace ECG searches for the most recent previous ECG that matches the configured criteria.

If the ECG was successfully serially compared and the serial comparison results were saved, the button label changes to **Uncompare**. You can undo the comparison, if necessary, as described in the next section.

3. To save the serial comparison results, select **Save**.

There may be occasions when you wish to recompare an ECG that has already been serially compared. For example, the ECG to which it was compared by have been invalid, or not the ECG you wanted to compare to, or a more recent, more representative ECG was acquired that you wish to compare to.

The **Compare** button in the Action bar changes to **Uncompare** when an ECG is selected that was serially compared.

Note:

*If the **Uncompare** button is not available, you do not have the necessary user permissions required to undo a serial comparison.*

When undoing a comparison, the system removes any serial comparison statements and serial comparison quality statements, restores the ECG to the original severity, and removes any edits that were made to the statements after serial comparison was performed. That is, the ECG is returned to the state it was in immediately prior to comparison. After saving the changes, you can perform a new serial comparison on the ECG, if desired.

To undo a serial comparison:

1. Display the ECG to uncompare.
2. Select **Uncompare** in the toolbar page 30.

The application reverts to the interpretive statements that were present prior to the serial comparison, and makes the ECG available for recomparison.

3. To save the changes to the ECG to the database, select **Save**.

The **Compare** button should now be enabled in the toolbar. You can perform another serial comparison on the ECG, if desired.

Extended Reports

The **Report** button allows you to display, print and export several extended ECG report formats:

Standard 12 Lead	Displays the same layout as the selected layout in the Review screen.
------------------	---

Superimposed Beats	Displays a representative beat for each lead, organized in a 2x6 format, as well as a superimposed representative beats view. Note: <i>The superimposed representative beat view is always shown in 50 mm/sec.</i>
Representative Beats	Displays the representative beat from each of the 12 leads, organized in a 3 x 4 format.
Morphology Analysis	A complete listing of the measurements made to derive an ECG interpretation
Rhythm Analysis	A complete listing of the measurements made to derive a rhythm interpretation

For more detailed information on these report formats, see the *IntelliSpace ECG Management System Instructions for Use*.

To display an extended report:

1. Click **Report**.
2. Select the desired format from the list.
3. When the report is displayed, click the **Print** icon (🖨️) in the upper right corner to print, or click the **Download** icon (⬇️) to save the report as a PDF to your browser's default download folder.

Assigning ECGs

While viewing an unconfirmed ECG, you can assign it to an inbox from the Review screen.

Note:

You cannot assign an approved ECG.

To assign an ECG:

1. Select the **Assign** button. The **Assign** dialog opens.
2. From the drop-down list, select the desired inbox and click **OK**.



- To remove the ECG from an inbox, select **Unassign**, then click **OK**.



Verifying ECGs

You can verify an ECG from the Review page.

To verify an ECG:

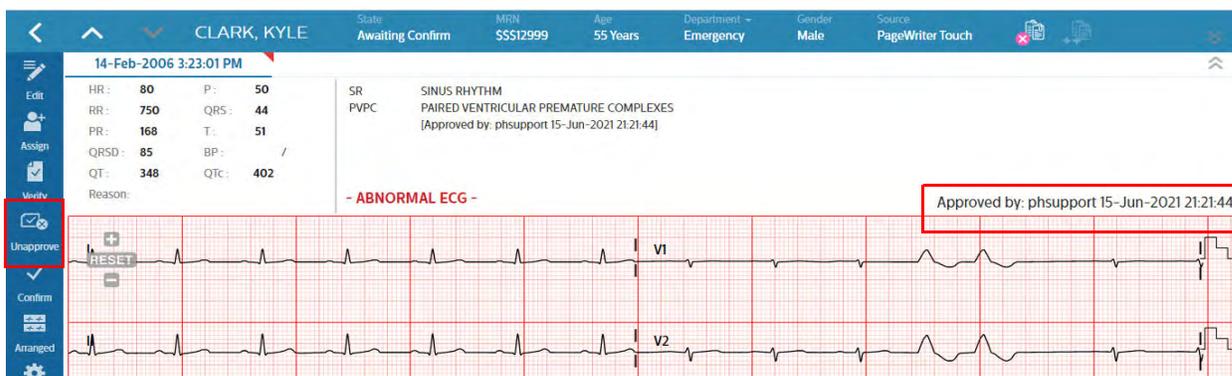
- On the Review page, verify the demographic information, making any necessary changes.
- Select **Save** to save the changes.
- Select **Verify** to mark the report as verified and update the status to **Awaiting Confirmation**.

Approving and Unapproving ECGs

You can approve an ECG from the Review page.

To approve an ECG:

- On the Review page, select **Approve**.
- After a short delay, the Approved by status will appear, followed by the user name of the approver, and the date and time on which the ECG report was approved. The **Approve** button will change to **Unapprove**.

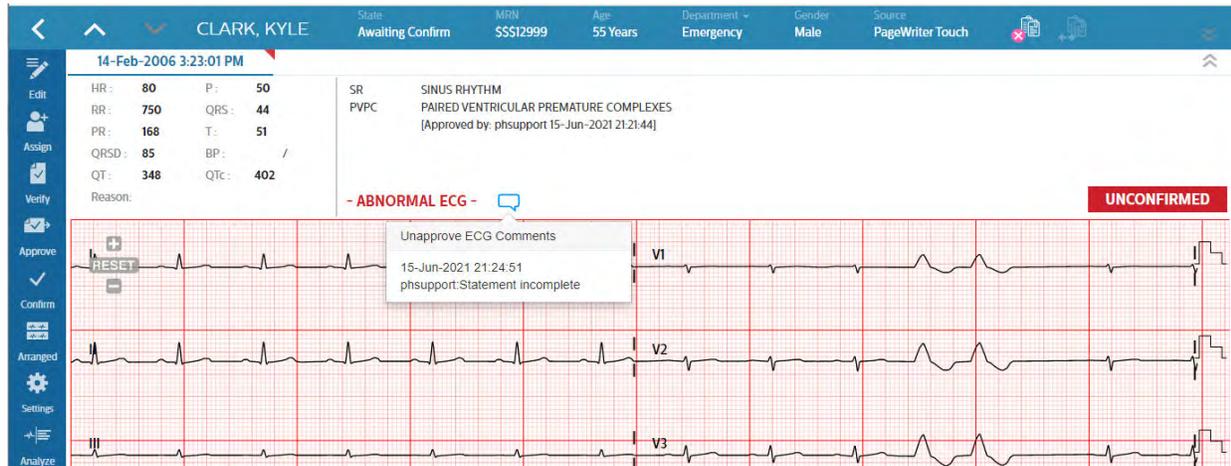


To unapprove an approved ECG:

1. Select **Unapprove**.
2. You will be prompted to enter a reason. Enter your comments and select **OK**, or select **Cancel** to abort the operation.



3. The Approved status will revert to the original status, and the **Unapprove** button will revert to **Approve**.
4. Comments may be reviewed by selecting .



Note:

*If the **Unapprove** button is not available, you do not have the necessary user permissions required to undo an approval.*

Confirming an ECG on the Review Page

You can confirm an ECG directly from the Review page.

To confirm an ECG on the Review page:

1. Open the ECG to the Review page.
2. Select **Confirm** in the toolbar page 30 or under the statement area.

Depending on the configuration at your site, you may be prompted to enter your password.

3. If prompted, type your password and select **OK**.
4. After a short delay, the Confirmed by status will appear, followed by the user name of the confirmer, and the date and time on which the ECG report was confirmed. The **Confirm** button will change to **Unconfirm**.

To unconfirm an ECG:

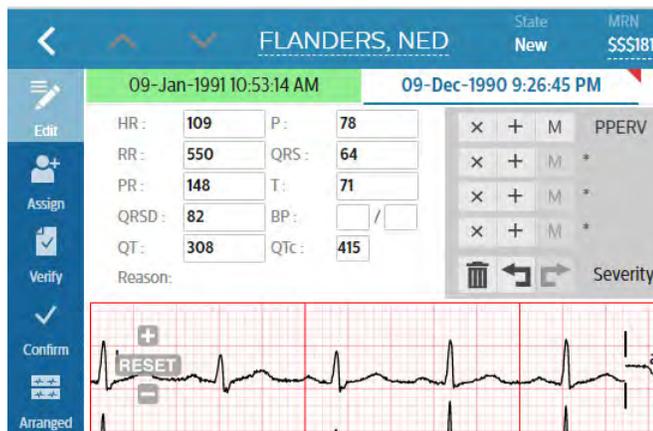
1. Open the ECG to the Review page.
2. Select **Unconfirm**. If prompted, type your password and select **OK**.
3. After a short delay, the status will revert to Unconfirmed. The **Unconfirm** button will change to **Confirm**.

Note:

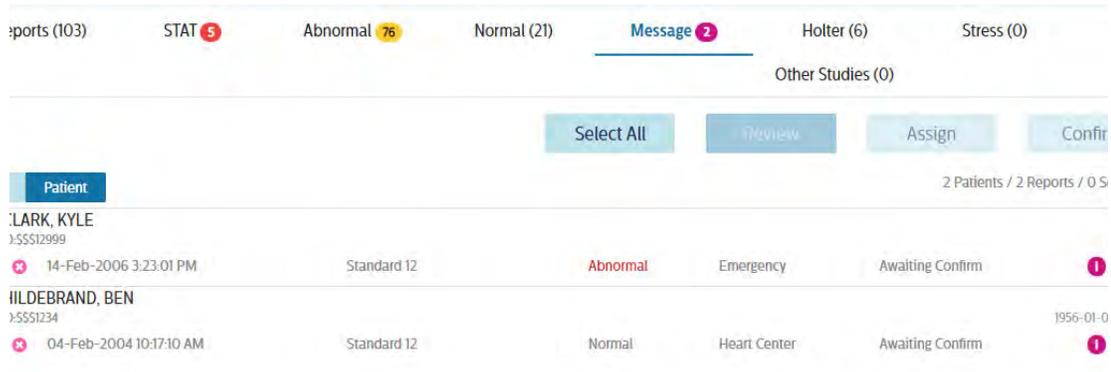
*If the **Unconfirm** button is not available, you do not have the necessary user permissions required to undo a confirmation.*

Asynchronous Confirm

If the **Asynchronous Confirm** option is checked in the system configuration menu, you can click the **Confirm** button and then continue with other operations. The system confirms the ECGs in the background. Once the confirmation procedure is complete, the ECG header background lights up in green if it has been successfully confirmed. The background lights up in red if confirmation failed.

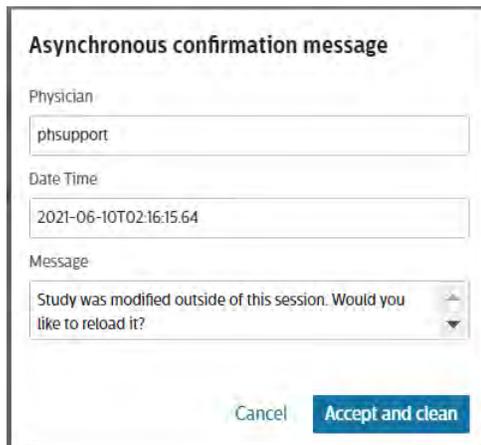


At the mean time, a **Message** filter bar appears on the **Report Search Screen**, listing all the ECGs that are failed to confirm.



You can review, assign or confirm them again.

Move the cursor over the purple escalation mark **i** on the right of the ECG to read the message. You can click on the escalation mark to clear it. In the prompted dialog box, select **Accept and clean**. This ECG will be cleared from this filter bar.



Sharing an ECG Report

Note:

The ability to share (email, print, export and/or duplicate) a report is configured by your system administrator.

To email a report:

1. Select **Share** in the toolbar page 30.

The Share dialog box appears.

2. Select the **Email** button.

The system displays an email message, with prefilled text.

3. Specify the recipient(s) and add or change text.
4. Select **Attach Report** to attach the ECG report to the message.
5. Select **Send** to send the email.

The report is sent.

To print a report:

1. Select **Share** in the toolbar page 30.

The Share dialog box appears.

2. Select the **Print** button.

The Select Report dialog box appears.

3. Select a report mode:

- **Normal:** the report includes all data, including patient name and ID
- **Teaching:** the report strips out the patient name and ID

4. Select a report type, then click **OK**.

The system displays a preview of the report on a browser Printer page with your system's settings.

5. Specify the printer and settings, as needed.
6. Select **Print**.

The report is printed.

To export a report:

1. Select **Share** in the toolbar page 30.

The Share dialog box appears.

2. Select the **Export > Normal** or **Teaching** mode > **XML** or **PDF** format.

3. The export file will be written to your browser's download directory. From there, you can copy it to a USB memory stick or other location.

To duplicate a report for teaching:

1. Select **Share** in the toolbar page 30.

The Share dialog box appears.

2. Select the **Duplicate > With Statements** or **Without Statements**.

3. The report is duplicated in the teaching location. This report has been stripped out the patient name and ID for teaching purpose.

Deleting an ECG

To delete an ECG, select **Delete** in the toolbar. Click **OK** to confirm deleting the ECG, or click **Cancel** to exit.

Conducting a New Search

To return to the Search page, select **Search** in the toolbar. The Search page is displayed, with the default search criteria already loaded, as well as any studies that match the default criteria.

Working with Stress Reports

Beginning with release B.02, ECG Anywhere allows you to view and edit Stress reports in your browser. The screens and tools are similar to those provided with the Philips ST80i Stress Test System. You can refer to the *ST80i Stress Test System Instructions for Use* for detailed information.

Searching for Stress Studies

To search for Stress studies:

1. In *Report* or *Patient* search, be sure to click **Include other studies**, or, to narrow your search results to include only stress reports, select the *Advanced Search* tab.
2. From the **Type** drop-down list, select **Stress**.
3. Set other parameters as desired.
4. Select **Search** to retrieve matching studies.

Matching Stress reports that you have permission to view appear in the Search Results list. You can select a single or multiple reports, just as you would with ECGs.

When you open a Stress report, you have a subset of the Edit tools that appear when you open an ECG. These controls perform the same functions as with ECGs (see Chapter 3, "Working with ECGs").

Figure 4-1 ECG Anywhere Stress Review Tab

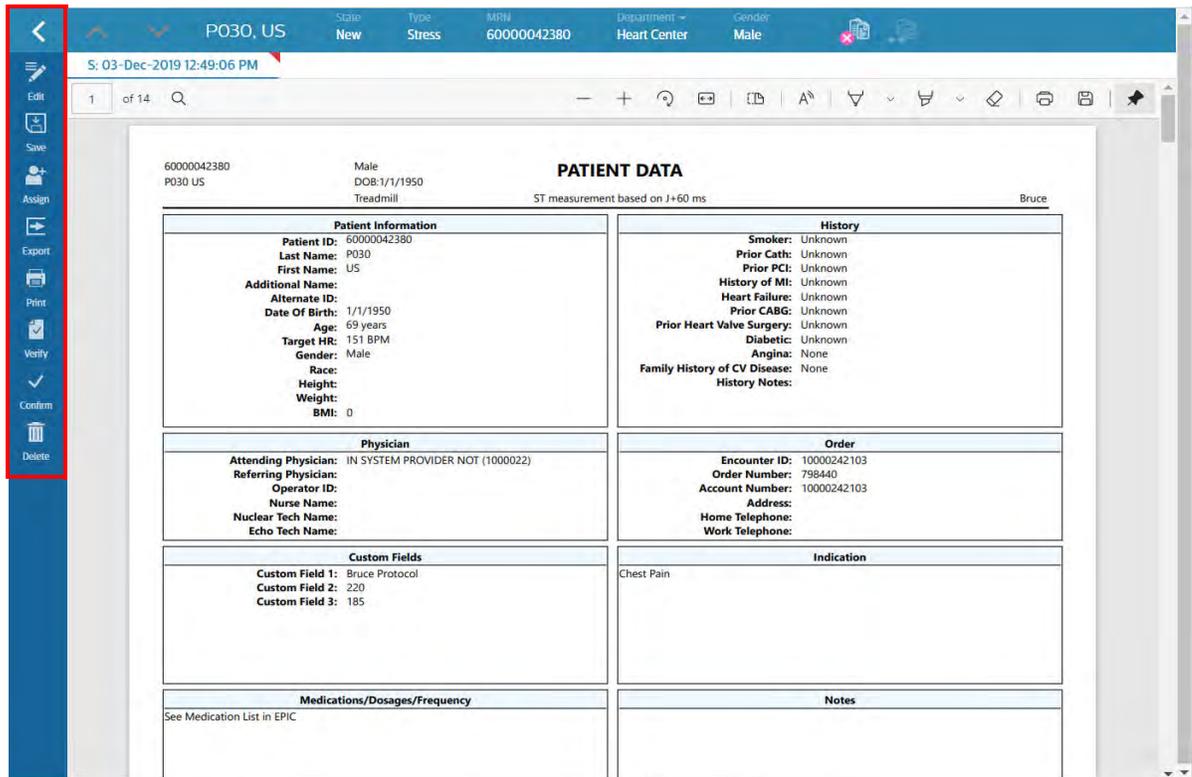


Table 4-1 ECG Anywhere Stress Review Toolbar

Icon	Description	Icon	Description
	Search button (return to Search page)		Print the report data
	Enable Edit mode		Verify the report data
	Save changes to the report		Confirm/Unconfirm
	Assign the report to an inbox		Delete the record

Table 4-1 ECG Anywhere Stress Review Toolbar (*Continued*)

Icon	Description	Icon	Description
	Export the report in XML format to a location you specify		

Note:

You cannot edit, assign or verify confirmed Stress reports. Confirmed reports are available for viewing only. You must be able to unconfirm a confirmed report in order to edit.

Assigning a Stress Report

While viewing an unconfirmed Stress report, you can assign it to an inbox from the Review screen.

To assign a Stress report:

1. Click the **Assign** button. The **Assign** dialog opens.
2. From the drop-down list, select the desired inbox and click **OK**.



3. To remove the report from an inbox, select **Unassign**, then click **OK**.



Verifying a Stress Report

You can verify a Stress report from the Review page.

To verify a Stress report:

1. On the Edit screen (see “Editing a Stress Report” on page 61), verify the demographic information, making any necessary changes.
2. Select **Save** to save the changes.
3. Close the Edit screen to return to the Review page.
4. Select **Verify** to mark the report as verified and update the status to **Awaiting Confirmation**.

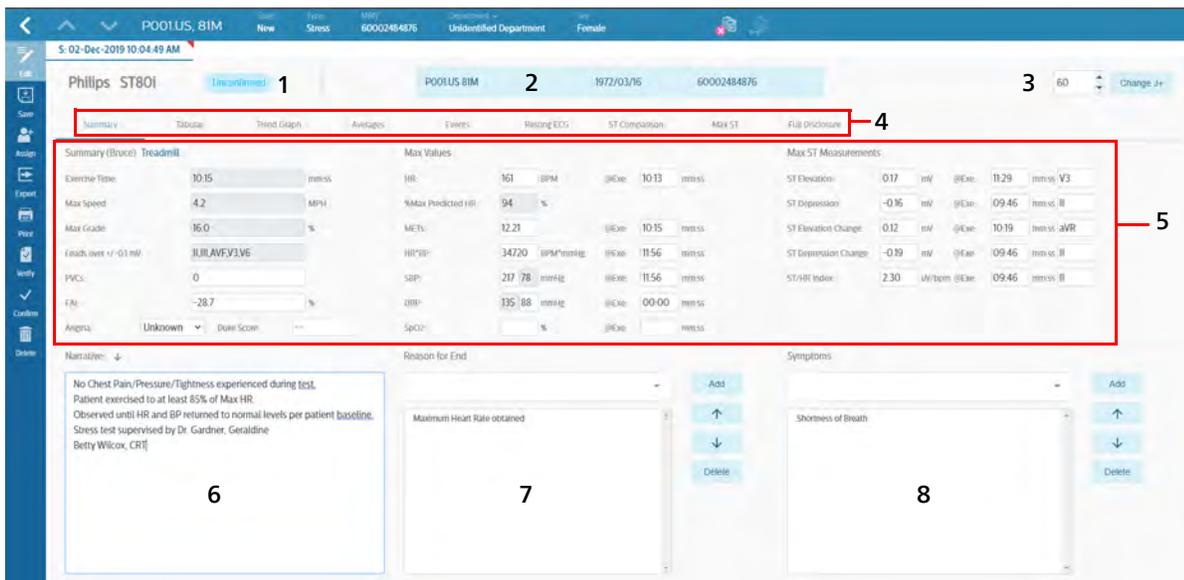
Editing a Stress Report

Caution

You must save all changes to the Stress report in the Review screen in order to update the information in ECG Anywhere and ISECG. If you do not click **Save** before closing the Review screen, the information will not be updated, and your changes will be lost.

To edit the Stress report, click **Edit**. The report will open in a second browser tab displaying the **Summary** tab.

Figure 4-2 ECG Anywhere Stress Edit Tab



1	Report status (confirmed/unconfirmed)	2	Patient ID information
3	J+ value editor	4	Navigation tabs
5	Summary and measurement information	6	Narrative section

7	Reason for End section and controls	8	Symptoms section and controls
---	-------------------------------------	---	-------------------------------

You can browse through the various sections of the report and review the ECG waveforms captured during the patient's stress test using the Navigation tabs (4). To change the J+ value, use the tool provided at the top of the edit window (3).

Note:

If you have selected multiple stress studies for review, you must close the Review screen of the active study in order to review each additional study you selected.

Patient Demographics

To edit patient demographics for the study, click the Patient ID information bar (2). The Patient Demographics window will open.

On the Patient Demographics window, you can edit the following:

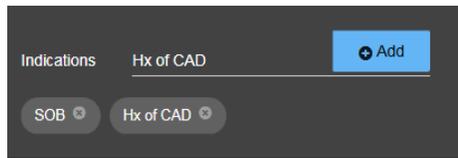
- Patient Information;
- History;
- Medications/Dosages;
- Physician/Order;
- DICOM fields (for review only, cannot be edited);
- Custom fields.

Navigate through the tabs and make necessary changes or additions. Some fields are text fields, some have radio buttons from which to make your selections, and some are note fields, where you simply type the desired information.

To add an entry in a text field:

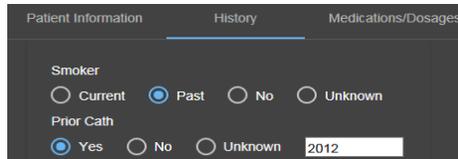
1. Click into the field (e.g., Indications).
2. Type the information you want to enter.

3. Click **Add**. The entry will appear below the text field.



To delete an entry, click the **X** next to the text you want to delete.

To add an entry for a radio button field, click the radio button next to the appropriate response.



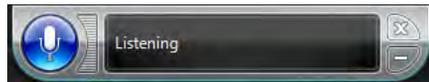
To add an entry in a note field, click into the field and type your information, or you can dictate a note using Speech Recognition.



Using Speech Recognition

If you have Speech Recognition set up on your computer, you can dictate the narrative. To dictate the narrative:

1. Ensure that Speech Recognition is enabled and listening



2. Click into the Notes window and begin dictating.
3. When finished, say "Insert." Your statements will appear in the Notes window.

After you have completed all revision of the patient demographic data, click **OK** to close the window. Click **Save** to record the changes.

Summary

The **Summary** tab includes:

- Study information including test protocol and exercise time;
- Clinical information including, for example, the reason for the test and the reason to end the test, the number of PVCs, Risk scores, free-text entry of narrative summary notes, and Max values for BP, ST, and METs HR. You can override the clinical values presented. When you change the values, they appear dark red and italic.

On the **Summary** tab, you can include your comments about the test, along with the Reason for End and Symptoms. All values included are based on data captured during each stage of the exercise stress test.

As you prepare the final report on the **Summary** screen, you can do the following:

- Add or update patient information;
- Review and edit final study data and make any necessary adjustments to the waveforms (for example, adjusting the J+ point);
- Prepare the patient's final stress report;
- Save the report and export it, if appropriate.

To edit stress measurements (5), click into the field you want to change. Click the **X** to delete the current value, then enter the value you want to report. You can also highlight the existing value and type over it. Fields that cannot be edited are grayed out.

The ST Measurement J+ Point is preconfigured in the user profile (Settings > User Profile: Algorithm > J-ST (msec)).

You can adjust the J+ Point value (3) to re-analyze the stress test using a different measurement point. Once the J+ms value is modified, all related values are recalculated, and the corresponding displays on the **Summary** screen are updated.

Note:

If you change the J+ Point, all ST values are recalculated.

To modify the J+ Point setting and recalculate all ST values based on the new setting:

1. On the procedure bar, click into the J+ field, highlight the value, and type the desired value in milliseconds for J-ST.
2. Click **Change J+** on the procedure bar.
3. Click **Save** to record the change.

Note:

*You can save your changes as you make them, or you can click **Save** at the end of your review to record all changes at once.*

Narratives

The **Narrative** section (6) allows you to select standard text blocks that have been configured in IntelliSpace ECG (for more information, see *Configuring IntelliSpace ECG*). To select a standard Narrative statement:

1. Click ↓. The Narrative window opens.



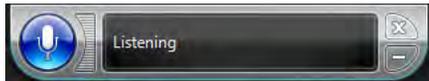
2. Click one of the categories presented (e.g., Adult/Pediatric Rhythms).
3. Select one of the narratives presented (e.g., Basic Cardiac).
4. Click **Insert**.

The selected narrative statement will be inserted into your report. Variables, such as %PatientName%, will be automatically populated with the appropriate data for the study you've selected.

Using Speech Recognition

If you have Speech Recognition set up on your computer, you can dictate the narrative. To dictate the narrative:

1. Ensure that Speech Recognition is enabled and listening



2. Click into the Narrative window and begin dictating.
3. When finished, say "Insert." Your statements will appear in the Narrative window.

Note:

For information on configuring, training, and using Speech Recognition, refer to [Configuring ISECG](#). The configuration guide provides instructions on setting up and training your computer's Speech Recognition module.

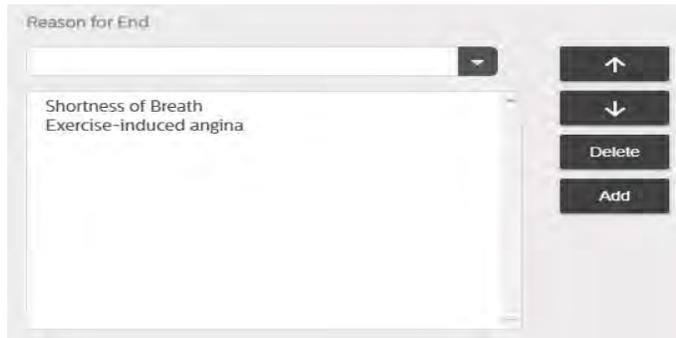
To delete a narrative statement from the report, highlight it in the **Narrative** section and hit **Delete** on the keyboard.

Reason for End and Symptoms

The **Reason for End** section (7) allows you to add, change or delete statements indicating why the stress test was terminated. You can select preconfigured statements (if available) from the drop-down list, or you can type your own.

To add a Reason for End statement:

1. Click the drop-down list and select a statement, or type your own entry.



2. Click **Add**. The statement will be added to the list.

To change the order in which statements appear, highlight a statement and click **h** or **i** to change its position.

To delete a statement, highlight it in the list and click **Delete**.

The **Symptoms** section (8) allows you to add, change or delete patient symptoms. You can select preconfigured statements (if available) from the drop-down list, or you can type your own.

To add a Symptom:

1. Click the drop-down list and select a symptom, or type your own entry.



2. Click **Add**. The symptom will be added to the list.

To change the order in which symptoms appear, highlight a statement and click **h** or **i** to change its position.

To delete a symptom, highlight it in the list and click **Delete**.

Navigating through the Report

You can review other sections of the stress report by clicking on one of the tabs in the Navigation bar (3). Tabs include:

- Tabular
- Trend graph
- Averages

- Events
- Resting ECG
- ST Comparison
- Max ST
- Full Disclosure

Tabular

The **Tabular** tab displays the following tabular data for the Pre Exercise phase, the Exercise phase, and the Recovery phase by stage or by minute:

- Time
- Speed/Power
- Grade
- Max HR
- BP (Sys/Dia)
- METs
- HR*BP (Double Product)
- SpO₂
- ST values per lead

You can edit the patient's blood pressure measurements by clicking into the fields and entering the value you wish to display on the report.

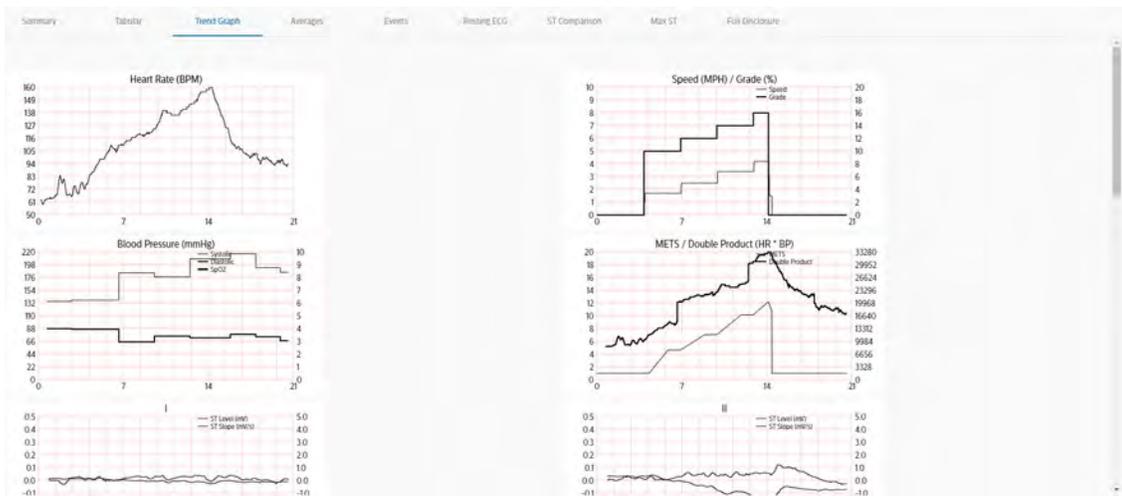
Summary		Trend Graph		Averages		Events		Resting ECG		ST Comparison		Max ST		Full Disclosure						
By Stage		By Minute				ST Unit: mV														
Name	Time	Speed	Grade	Max HR	BP (Sys/Dia)	METs	HR*BP	SpO ₂	I	II	III	aVR	aVL	aVF	V1	V2	V3	V4	V5	V6
Pre Exercise	03:52	0.0	0.0		/	1.00														
Start Exe	00:00	0.0	0.0	84	137 / 87	1.00	10138	--	0.02	0.03	0.02	-0.02	0.00	0.03	-0.02	0.08	0.11	0.05	-0.03	0.02
Exe Stage 1	03:00	1.7	10.0	111	184 / 65	4.64	20424	--	0.00	0.00	-0.01	0.00	0.01	-0.01	0.02	0.04	0.08	0.02	0.01	0.00
Exe Stage 2	06:00	2.5	12.0	129	177 / 75	7.05	22833	--	-0.01	-0.08	-0.07	0.04	0.03	-0.02	0.04	0.04	0.07	0.01	-0.01	-0.04
Exe Stage 3	09:00	3.4	14.0	148	208 / 72	10.16	30784	--	-0.01	-0.12	-0.10	0.07	0.04	-0.11	0.06	0.07	0.09	-0.02	-0.06	-0.07
Exe Stage 4	10:15	4.2	16.0	160	208 / 72	12.21	33280	--	-0.02	-0.15	-0.13	0.09	0.05	-0.13	0.07	0.06	0.06	-0.04	-0.07	-0.11
Rec Stage 1	06:26	0.0	0.0	158	185 / 67	1.00	17390	--	-0.01	-0.07	-0.05	0.04	0.02	-0.06	0.04	0.05	0.06	0.02	0.05	-0.05

Trend Graph

The **Trend Graph** tab displays the following graphs:

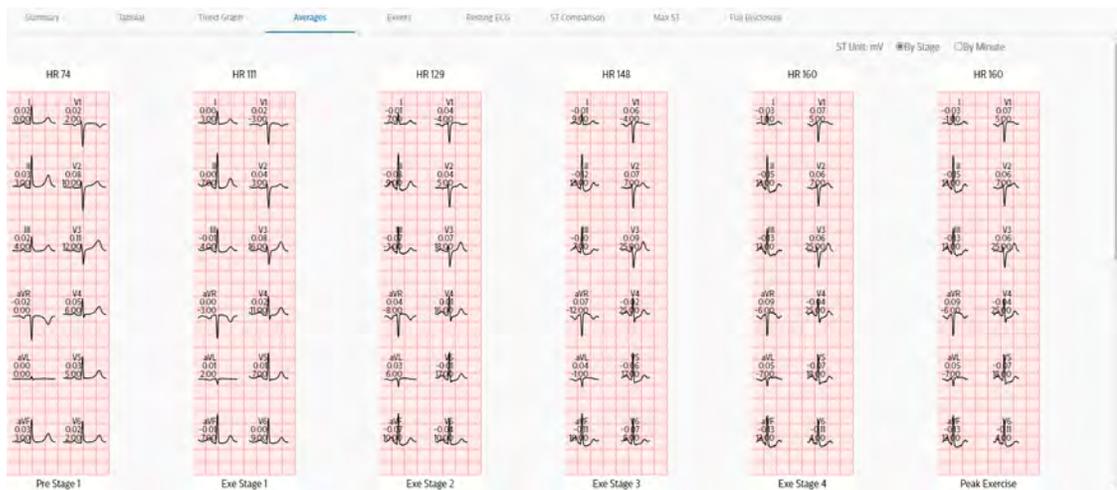
- Heart Rate;
- Blood Pressure (Systolic, Diastolic, and SpO₂);
- Speed/Grade of the Treadmill (or data from the Ergometer);
- METs/Double Product (HR*BP);
- Trends by lead for ST Level and ST Slope.

To review additional graphs, use the scroll bar on the right side of the screen.



Averages

The Average tab gives an overview of median morphologies by stage or by minute. To review additional graphs, use the scroll bar on the right side of the screen.



Events

The **Events** tab displays snapshots of all events, captured arrhythmias, and RPE scale selections acquired during the stress test, including events manually captured during the stress test.



On the **Events** tab, you can do the following:

- check the printer box  next to the desired event to select events that will be included in the final version of your report;
- check the delete box  next to the desired event to select events, and then click the **Delete** button on the right of the screen to delete the selected events. You will be prompted to confirm the deletion. Click **Yes** or **No**.

To review additional events, use the scroll bar on the right side of the screen.

Resting ECG

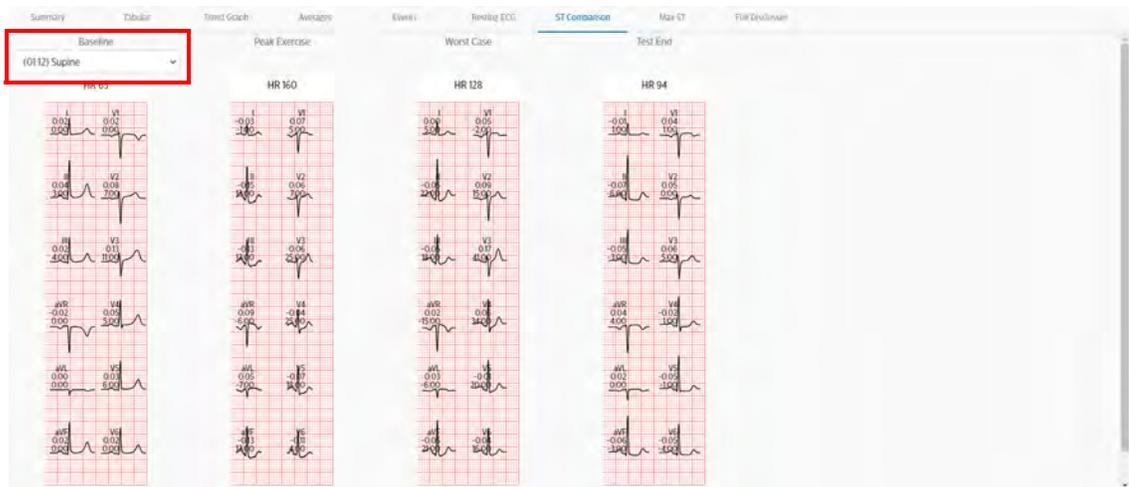
The **Resting ECG** tab shows reports of ECGs of Supine and Mason-Likar events. To review additional ECGs, use the scroll bar on the right side of the screen.



ST Comparison

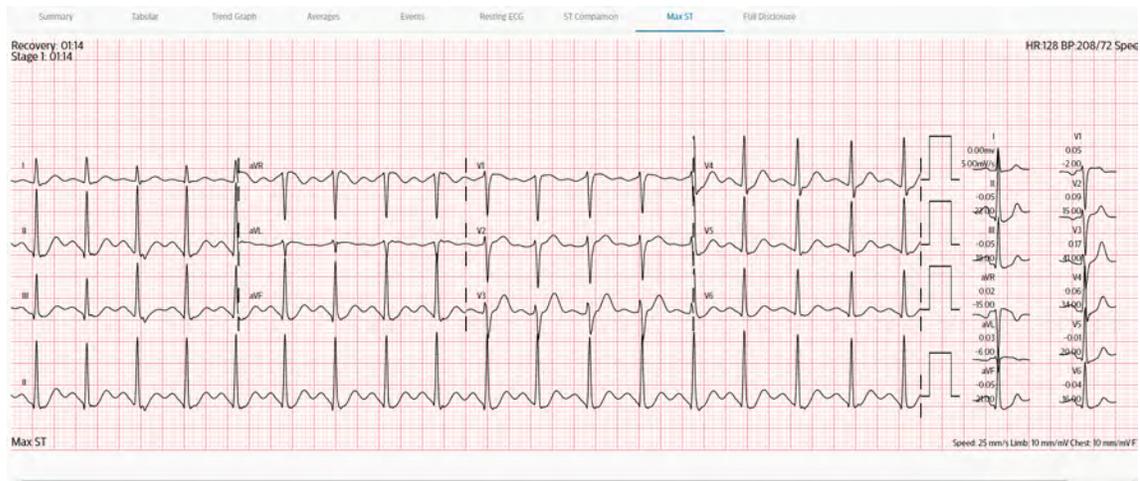
The **ST Comparison** tab displays the average ST values captured for all 12 leads at the following points in the test:

- **Baseline** — Average beats for one baseline. By default, the baseline is the first event during the test. You can specify a different baseline from the drop-down list above the Baseline image. All events printed during the test are included in this menu.
- **Peak Exercise** — Average beats at peak exercise, which is the point at which the test advances from Exercise phase to Recovery phase.
- **Worst Case** — Average beats when maximum ST is reached. Maximum ST is the greatest ST elevation or ST depression measured during the test.
- **Test End** — Average beats at the end of the Recovery phase.



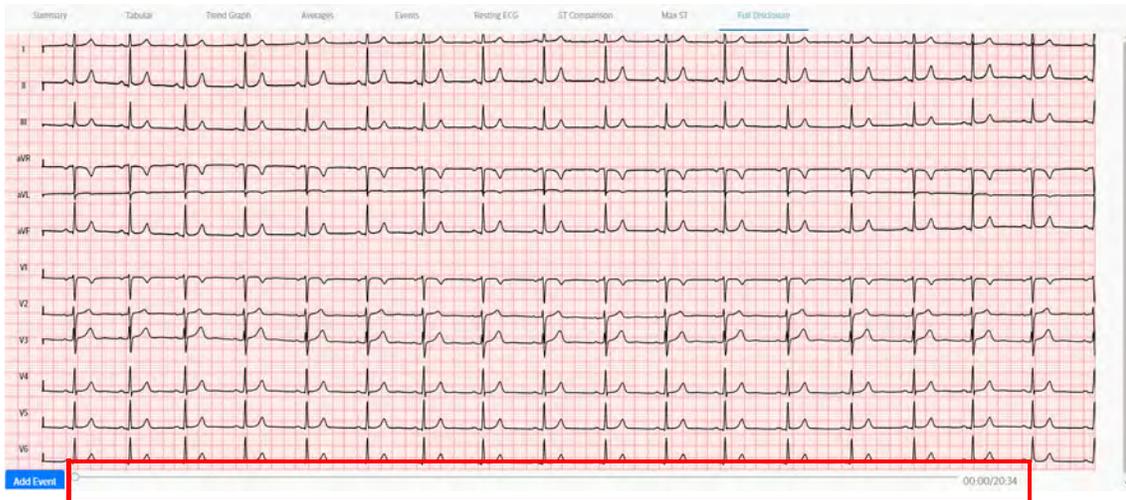
Max ST

The **Max ST** tab displays the 5-second 12-lead ECG at the point in the test when the maximum ST elevation or ST depression was measured. Average beats for each lead are displayed to the right of the ECG.



Full Disclosure

The **Full Disclosure** tab allows you to review ECG waveforms for the entire stress test.



Note:

Depending on the length of the stress test, loading and navigating through the Full Disclosure file may take some time.

The scrollbar at the bottom allows you to move forward and backward through the file. The total length of the study is displayed on the right. As you move through the file, the time at which an event occurred during the study is also displayed.

You can save new events in the Full Disclosure screen by scrolling to the point at which you want to save an event and clicking **Add Event**. Enter a label when prompted and click **OK**. The new event will be displayed in chronological order on the Events screen (see page 69).

When you have completed your review and made all desired changes, click **Save**. You can then choose to print your report or export it.

Printing the Report



Use the **Print** button on the procedure bar to print individual report sections or the final stress report. The Quick Print Settings window will open.

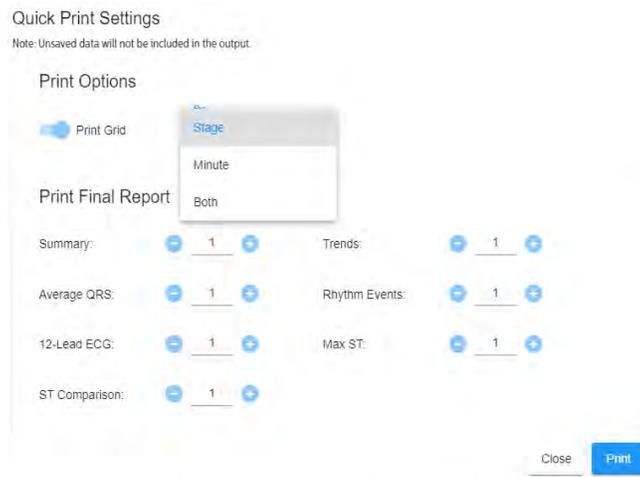
The types of individual reports that can be printed include:

- Patient ID
- Summary
- Trend Graphs
- Average QRS

- 12-Lead Resting ECGs
- Events (including manual ECG, manual event, stage report, RPE, arrhythmia, freeze)
- ST Comparison
- Max ST

When printing a stress report, you can choose which individual sections to include and the number of copies to print for each individual report. You can select whether to print a grid., and choose to print by stage, minute, or both. You can also print a complete final stress report. Regardless of settings, a patient ID report is always printed on the first page of a final stress report.

To print the ECG grid, click **Print Grid** so that the toggle slides to the right.



WARNING

ECG signals printed on a laser printer should not be used to make time-sensitive measurements directly from the printed page.

To select printing by stage, minute, or both, make your desired selection from the drop-down list.

To specify the individual sections to include on the final report, and to specify the number of copies for each section, use the + and - buttons to increase or decrease the number of copies for each section. To exclude a section, set the quantity to 0.

When all selections are made, click **Print** at the bottom right corner of the Quick Print Settings window. After printing, close the tab to return to the review screen.

Exporting the Report

When you export a stress study from the Review screen, the data is exported in XML format. Remember to click **Save** before exporting.

To export a study, click **Export**. (see Figure 4-2 on page 61).

The export file will be written to your browser's download directory. From there, you can copy it to a USB memory stick or other location.

Confirming Stress Reports on the Review Page

You can confirm a Stress report directly from the Review page.

To confirm report on the Review page:

1. Select **Confirm** in the toolbar (see Figure 4-1 on page 59).
Depending on the configuration at your site, you may be prompted to enter your password.
2. If prompted, type your password and select **OK**.
3. After a short delay, the Confirmed by status will appear, followed by the user name of the confirmer, and the date and time on which the report was confirmed. The **Confirm** button will change to **Unconfirm**.

To unconfirm a Stress report:

4. Select **Unconfirm**. If prompted, type your password and select **OK**.
5. After a short delay, the status will revert to Unconfirmed. The **Unconfirm** button will change to **Confirm**.

Note:

*If the **Unconfirm** button is not available, you do not have the necessary user permissions required to undo a confirmation.*

Deleting a Stress Report

You can delete a Stress report directly from the Review page.

To delete a report:

1. Select **Delete** in the toolbar (see Figure 4-1 on page 59).
You are prompted to confirm the deletion.
2. Click **OK**.
The report is deleted.

Conducting a New Search

To return to the Search page, select the **Search** button in the toolbar. The Search page is displayed, with the default search criteria already loaded, as well as any studies that match the default criteria.

Working with Ambulatory ECG Studies

Beginning with release B.02, ECG Anywhere allows you to view and edit Philips Holter and other ambulatory ECG reports in your browser. The screens and tools are similar to those provided with the Philips Holter System. You can refer to the *Philips Holter System Instructions for Use* for detailed information.

Searching for Ambulatory ECG Studies

To search for ambulatory ECG studies:

1. In *Report* or *Patient* search, be sure to click **Include other studies**, or, to narrow your search results to include only ambulatory ECG reports, select the *Advanced Search* tab.
2. From the **Type** drop-down list, select **Ambulatory**.
3. Set other parameters as desired.
4. Select **Search** to retrieve matching studies.

Matching studies that you have permission to view appear in the Search Results list. You can select a single or multiple reports, just as you would with ECGs.

When you open a report, you have a subset of the Edit tools that appear when you open an ECG. These controls perform the same functions as with ECGs.

Figure 5-1 ECG Anywhere Ambulatory ECG Review Screen

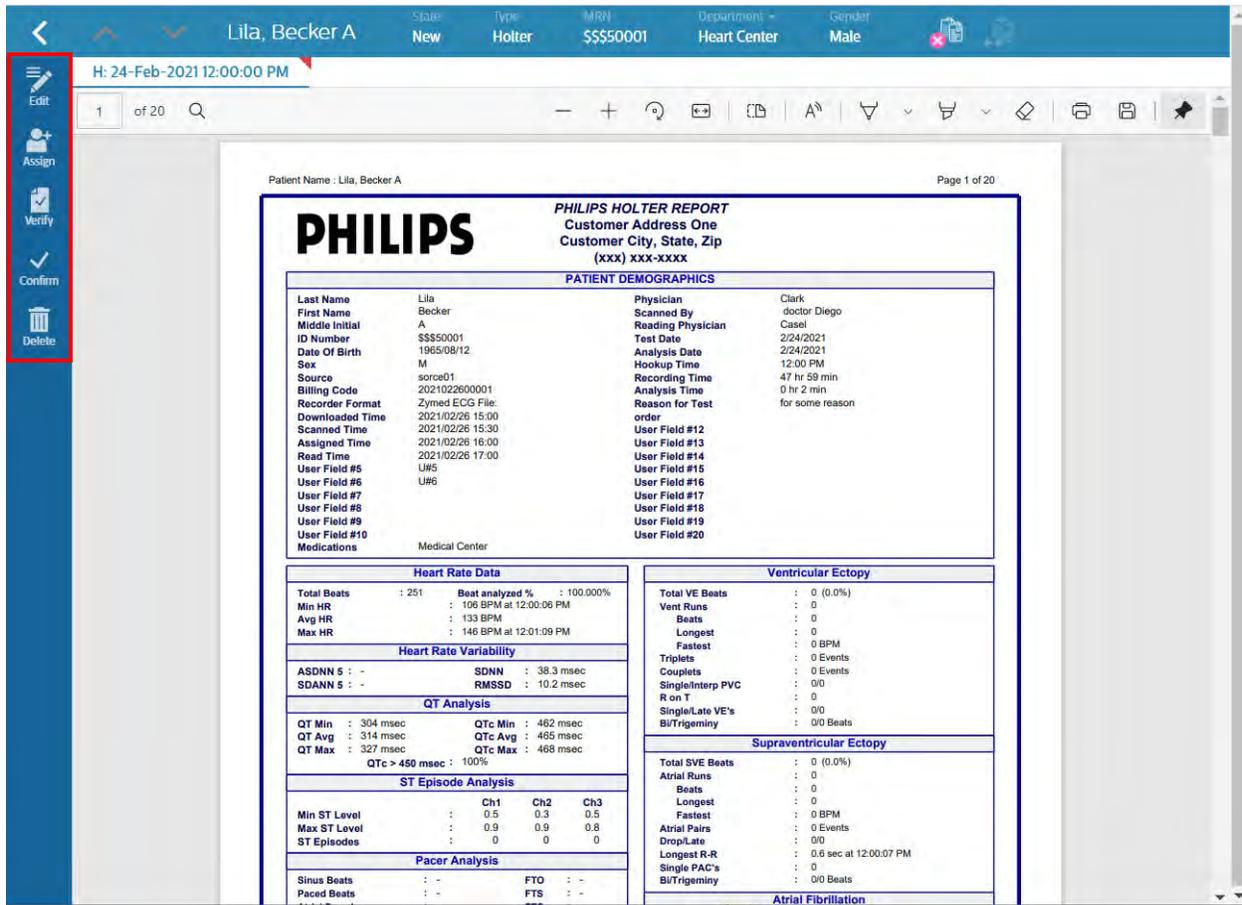


Table 5-1 ECG Anywhere Ambulatory ECG Review Toolbar

Icon	Description	Icon	Description
	Search button (return to Search page)		Verify the report data
	Enable Edit mode		Confirm/Unconfirm
	Assign the report to an inbox		Delete the record

Note:

You cannot edit, assign or verify confirmed ambulatory ECG reports. Confirmed reports are available for viewing only. You must be able to unconfirm a confirmed report in order to edit.

Assigning an Ambulatory ECG Report

While viewing an unconfirmed report, you can assign it to an inbox from the Review screen.

To assign a report:

1. Select the **Assign** button. The **Assign** dialog opens.
2. From the drop-down list, select the desired inbox and click **OK**.



3. To remove the report from an inbox, select **Unassign**, then click **OK**.



Verifying an Ambulatory ECG Report

You can verify a report from the Review page.

To verify a report:

1. On the Edit screen (see "Editing a Philips Holter Report" on page 77 and "Editing a Third-Party PDF ECG Report" on page 79), verify the demographic information, making any necessary changes.
2. Select **Save** to save the changes.
3. Close the Edit screen to return to the Review page.
4. Select **Verify** to mark the report as verified and update the status to **Awaiting Confirmation**.

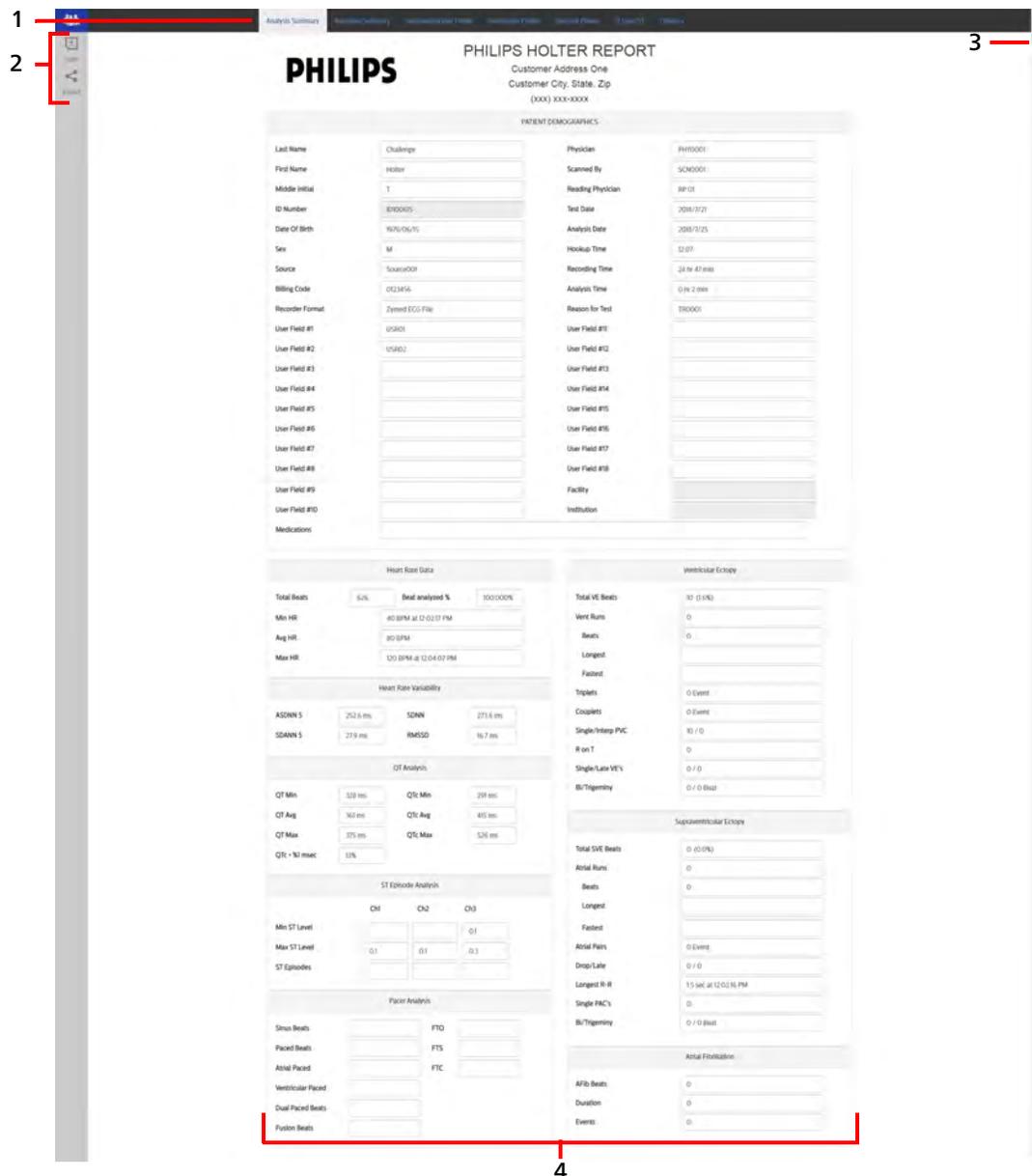
Editing a Philips Holter Report

Caution

You must save all changes to the report in the Review screen in order to update the information in ECG Anywhere and ISECG. If you do not click Save before closing the Review screen, the information will not be updated, and your changes will be lost.

You can edit To edit the report, click **Edit**. The report will open in a second browser tab displaying the **Analysis Summary** tab.

Figure 5-2 ECG Anywhere Holter Edit Screen



1	Navigation bar	2	Save/Export buttons
3	Scroll bar	4	Report information

Use the Navigation bar (1) to jump to different report sections, or use the scroll bar (3) to scroll through the entire report.

To edit report information (4), click into the field you want to revise, then type the information. If there is already information in a field that you need to change, highlight the existing data, then type over it. Fields that cannot be edited are grayed out.

When you have made all desired revisions, click **Save** (2). You will be prompted to enter a short comment describing the changes you made to the report. Enter your comments and click **OK** to save your changes. Your comment appears at the end of the Holter report in the **Report History** section. If you do not enter a comment, the change history will display "Report Saved" as the reason for change.

Comment for Report Edit

Enter a brief comment describing the report change

Adjusted analysis time

OK

Report Change History

User ID	Date	Reason	Comment
Administrator	7/4/2018	Created	
Administrator	7/4/2018	Scan Saved	
Administrator	7/4/2018	Report Saved	
phsupport	3/28/2019	Edited	Testing
phsupport	3/28/2019	Report Saved	
phsupport	3/28/2019	Report Saved	
phsupport	3/28/2019	Report Saved	
phsupport	3/28/2019	Report Saved	
phsupport	3/28/2019	Edited	Adjusted analysis time
phsupport	3/28/2019	Report Saved	

To export the report, click **Export** (2). The entire contents of the report will be exported to a .DAT file, which can be imported into other applications for additional analysis and reporting.

```

774256fa-919a-4028-8b87-7c75382ef212.dat - Notepad
File Edit Format View Help
[[Demographics]
PatLastName=Strange
PatFirstName=Doctor
PatMI=B
PatID=3154
PatDOB=6/16/1977
PatSex=M.
Source=Test Source 5
BillingCode=90025
TestReason=Reason 4
Medications=Aspirin, Coumadin, Levothroid, Benadryl
PatPhysician=Tom Hudson DO
ScannedBy=Test Scanner 3
TestDate=7/3/2018
HookupTime=12:00 PM
AnalysisDate=7/4/2018
ReadingPhysician=Happy Johnson MD
User Field #1=Test Field 1
User Field #2=Test Field 2
User Field #3=
User Field #4=
User Field #5=
User Field #6=
User Field #7=
User Field #8=

```

Note:

If you have selected multiple Holter studies for review, you must close the Review screen of the active study in order to review each additional study you selected.

Editing a Third-Party PDF ECG Report

When reviewing an ambulatory ECG report from a source other than Philips Holter, you can edit only the cover page.

The screenshot shows a 'Study Cover Page' form with two main sections. The top section contains demographic and clinical data fields. A red bracket labeled '1' encompasses these fields: Last Name (Doe), First Name (Susan), Middle Name (B), Date of Birth (02-May-1959), Sex (Female), Height (63 in), Referring MD, Diagnosis, ID (000011), Order #, Account #, Age (61 Years), Race (Other race), Weight (132 lb), and Attending MD. Below this is a large text area for 'Clarifications', 'Interpretations', and 'Conclusion', with a red bracket labeled '2' around it. At the bottom right, there is a 'Preliminary Interpretation by' field with a red line and the number '3' next to it. Other elements include an 'Insert Stmt' button, a 'Not confirmed' checkbox, and buttons for 'Cancel' and 'OK'.

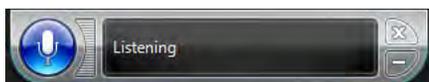
You can update the patient demographics fields (1) by typing or selecting from the available drop-down lists. Complete the Preliminary Interpretation field (3) in the same way.

You can enter clarifications, interpretations and conclusions (2) by typing manually, or if Speech Recognition is enabled on your computer, by dictation.

Using Speech Recognition

To dictate a clarification, interpretation, or conclusion:

1. Ensure that Speech Recognition is enabled and listening



2. Select the tab you want to dictate (Clarifications, Interpretations, or Conclusions).
3. Click into the edit window and begin dictating.
4. When finished, say "Insert." Your statements will appear in the edit window.

After you have completed all revision of the data, click **OK** to close the window. Click **Save** to record the changes.

Confirming Reports on the Review Page

You can confirm an ambulatory ECG report directly from the Review page.

To confirm report on the Review page:

1. Select **Confirm** in the toolbar (see Figure 5-1 on page 75).
Depending on the configuration at your site, you may be prompted to enter your password.
2. If prompted, type your password and select **OK**.
3. After a short delay, the Confirmed by status will appear, followed by the user name of the confirmer, and the date and time on which the report was confirmed. The **Confirm** button will change to **Unconfirm**.

To unconfirm a report:

1. Select **Unconfirm**. If prompted, type your password and select **OK**.
2. After a short delay, the status will revert to Unconfirmed. The **Unconfirm** button will change to **Confirm**.

Note:

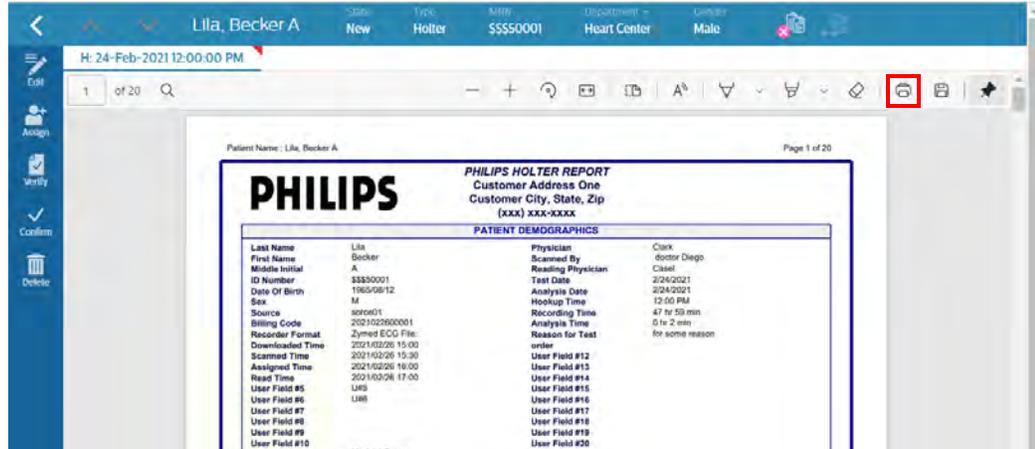
*If the **Unconfirm** button is not available, you do not have the necessary user permissions required to undo a confirmation.*

Printing an Ambulatory ECG Report

You can print a report from the Review page.

To print a report:

1. On the Review screen, click the **Print** icon.



The system displays a preview of the report on a browser Printer page with your system's settings.

2. Specify the printer and settings, as needed.
3. Select **Print**. The report is printed.

Deleting an Ambulatory ECG Report

You can delete a report directly from the Review page.

To delete a report:

1. Select **Delete** in the toolbar (see Figure 5-1 on page 75).
You are prompted to confirm the deletion.
2. Click **OK**. The report is deleted.

Conducting a New Search

To return to the Search page, select the **Search** button in the toolbar. The Search page is displayed, with the default search criteria already loaded, as well as any studies that match the default criteria.

Reconciling Studies and Orders

Reconciling studies and orders ensures that every order that enters the system is filled (or canceled), the results are sent back to the HIS, and billing can occur.

About the Reconciliation Process

Orders that enter the system through the HIS are stored in the Orders system database, which resides either on the IntelliSpace ECG Management (ISECG) server or on a server accessible to the ISECG system.

Devices access the Orders system database to search for and download the orders to be filled, and then transmit the acquired studies to the ISECG system.

For each study that comes into the ISECG database, ISECG performs a search of the Orders system database to determine whether there is an order that matches the incoming study. Specifically, the system is checking whether an order and an incoming study have the same unique order ID number. Once the system identifies an order/study match, it associates the two.

Note:

This is an internal number created by Orders system to uniquely identify each order in the system. The unique order ID is not visible to you when viewing or editing and study, and you cannot enter it into an order using ISECG. The unique order ID is used in the study-to-order matching process to ensure a given order matches only the study acquired with that order.

When you search for orders, the system goes through a more detailed matching process, and checks whether all of the primary fields (as designated for your site and described on page 10 of Working With Orders guide) match between the two. This allows the client application to indicate status upon order retrieval. As described on page 11 of Working With Orders guide, reconciliation status can be any of the following:

- *Reconciled.* All of the required primary fields match.
- *Not reconciled.* Not all of the primary fields match.

With IntelliSpace ECG Anywhere, you can only reconcile a single order/study pair. An order that is reconciled to a study cannot be selected to reconcile to another study in IntelliSpace ECG Anywhere. If you have matched an incorrect order to an study, you

can unreconcile the pair, and re-reconcile the order to another study. For details, see “Unreconciling an Order/Study Pair” on page 93.

Determining Reconciliation Status

The ECG Anywhere application clearly indicates the reconciliation status of an study on the study header, as follows. For additional information, see Working With Orders guide:

- **Pink X** (one or more fields do not match, not reconciled)

BECKER, LILA	State New	MRN \$\$\$229577	Age 81 Years	Department Heart Center	Gender Female	Source PageWriter XL	
--------------	--------------	---------------------	-----------------	----------------------------	------------------	-------------------------	---

- **Yellow ?** (partial match, not reconciled)

BECKER, LILA	State Confirmed	MRN \$\$\$229577	Age 83 Years	Department Heart Center	Gender Female	Source PageWriter XL	
--------------	--------------------	---------------------	-----------------	----------------------------	------------------	-------------------------	---

- **Green ✓** (all fields match, reconciled)

BARNES, LLOYD RA>	State New	MRN \$\$\$7893	Age 50 Years	Department Heart Center	Gender Male	Source IntelliVue	
-------------------	--------------	-------------------	-----------------	----------------------------	----------------	----------------------	---

About the Match Order Window

You use the Match Order window to manually reconcile studies and orders. You only need to manually reconcile those orders that were not matched automatically.

In most cases, when either data is entered correctly or all the required primary information is available at the time of study acquisition and order entry, orders and studies will reconcile automatically, as the primary fields will match.

Note:

Remember that the exact set of primary fields that are required depends on how order match settings are configured at your site. For a description of primary fields, see “How IntelliSpace ECG Defines an ECG/Order Match” of the Working With Orders guide. If you have questions about the required fields in your client application, contact your ISECG administrator.

However, situations arise where automatic order matching may not occur. For example, when an ECG is acquired in the Emergency room and is reviewed prior to the order being entered into the system, or a patient’s name is mistyped, or other similar situation. In these cases, you can manually match orders to studies using the Match Order window, available in the client application Summary view.

Once matched manually or automatically, the patient record is marked as **Completed**, and the system records the date and time of reconciliation. However, if, while the ECG remains unconfirmed, a change is made to the ECG or to the order, the client application clearly indicates that the ECG and order no longer

match (as described in “About Reconciliation Status” in the Working With Orders guide). If the change is to a primary field, you must manually re-reconcile these studies before the results can be exported back to the HIS.

The reconciliation process comprises the following steps, in order:

1. Using the Match Order window, retrieve matching orders.
2. Locate and select the matching order, if listed.
3. Carefully review the data in the order and compare it to the order in the study.
4. Reconcile the study and order.

You can only reconcile a single order/study pair. An order that is reconciled to an study cannot be selected to reconcile to another study in IntelliSpace ECG Anywhere. If you have matched an incorrect order to an study, you can unreconcile the pair, and re-reconcile the order to another study. For details, see “Unreconciling an Order/Study Pair” on page 93.

Figure 6-1 Match Order window

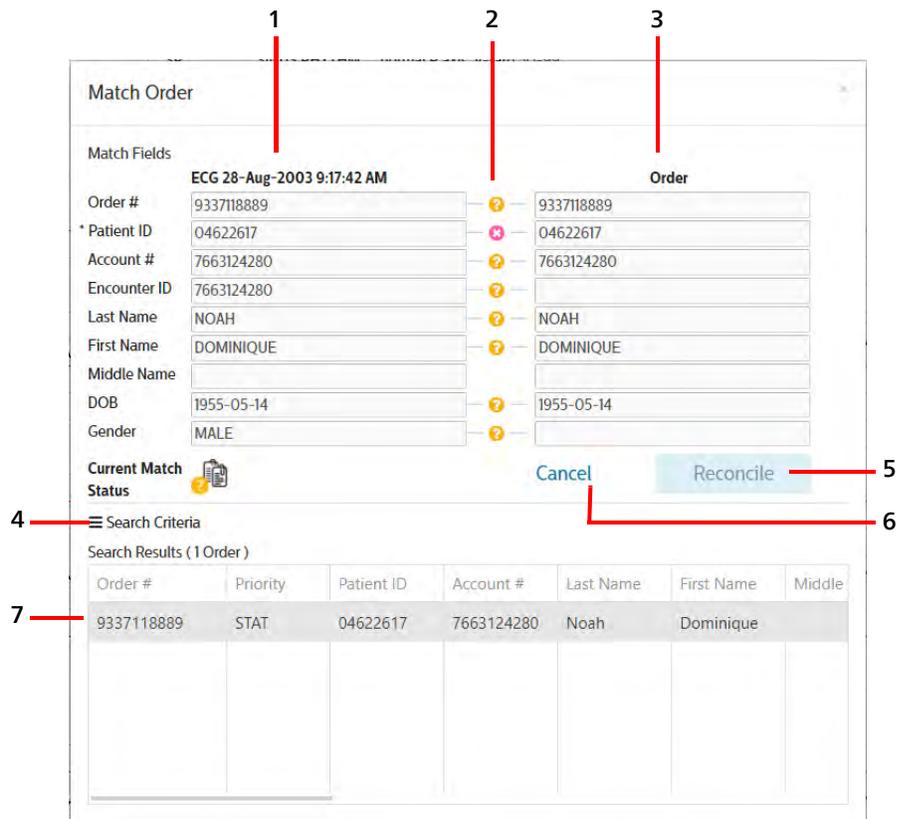


Table 6-1 Match Order window components

Field/Button	Description
1	Study fields
	Displays the values in the listed fields for the currently selected study.

Field/Button	Description
2	<p>Order status</p> <p>Once an order is selected, the order status icon between the fields indicates whether the value in this field for the study matches the value in the same field for the order, as follows:</p> <ul style="list-style-type: none"> • <i>Green</i> ✓ indicates the fields match • <i>Pink X</i> indicates a required primary field that does not match • <i>Yellow ?</i> indicates a non-primary field that does not match or the Order ID does not match <hr/> <p>Caution: The Order ID is not an editable field. If you reconcile this order and study, the ID associated with the order will overwrite the order ID in the study.</p> <hr/>
3	<p>Order fields</p> <p>Displays the values in the listed fields for the currently selected order in the Search Results list.</p>
4	<p>Search Criteria button</p> <p>Displays search fields, allowing you to search for matching orders.</p>
5	<p>Reconcile button</p> <p>Click to associate the selected order with the current study, and close the window.</p> <hr/> <p>Caution: If you are reconciling an order and an study that do not match exactly in any field, the values specified in the order will overwrite those for the study!</p> <p>For example, if the study differs from the order in the First Name field, by reconciling the order with the study, you will overwrite the first name in the study with that specified in the order.</p> <p>The same thing occurs if you are reconciling an study without an associated order to an order; the order data will overwrite the comparable data on the study.</p> <p>You are prompted to confirm this change before reconciliation is successful. Be sure to carefully read the information in the confirmation dialog box to ensure the order information is correct!</p> <hr/> <p>There are additional rules that apply to reconciling studies and orders. For details, see "About Reconciliation Rules" on page 90.</p>

Field/Button		Description
6	Cancel button	Click to close the Match Order window and return to Summary view.
7	Search results list	<p>Shows the orders that match the criteria specified in the Search section. Each order entry displays detailed information about the order.</p> <hr/> <p>Caution: When you first click the Match Order button in Summary view, the application automatically begins searching the Orders management system database for orders using the following search criteria:</p> <ul style="list-style-type: none"> • Order number • Patient ID • Account number • Last name: The first three letters of the study patient's last name, followed by the wild card % sign. • First name • Gender • DOB (Date of Birth) • Start Date • End Date • Outbox • Status • STAT <p>If the search yields no orders that match these criteria, change them as needed. For example, consider changing the start date (by default set to 3 days prior to today's date) and the last name values, or the status of the order to <All>.</p> <hr/> <p>Click an order to select it; this fills in the fields in the Order section at the top of the window.</p>

Retrieving Matching Orders

After selecting the study to reconcile, you use the Match Order window to retrieve the order. If an exact match is not found, the client displays the most likely matches. You can also initiate a search for a specific order from within the Match Order window.



To display the Match Order window, in the Patient Demographics bar, click the **Match Order** icon when it is yellow or pink. When the button is green, the order and study are reconciled.

The Match Order window appears, displaying key information for the current study. Primary fields are marked with asterisks (except for **Order #**, which is always a required field). The system automatically begins searching through the OrderVue database to retrieve the most likely matches.

If a single match is found (as shown in Figure 6-2 Automatic selection of single matching order on the following page), that order is automatically selected. If a not-exact match or multiple matches are found (Figures 6-3 and 6-4), the matching orders are listed in the Search Results list, but no order is selected.

Figure 6-2 Automatic selection of single matching order

The screenshot shows a 'Match Order' window with two columns: 'Match Fields' and 'Order'. The 'Match Fields' column contains the following data:

- Order #: 9337118889
- * Patient ID: 04622617
- * Account #: 7663124280
- * Encounter ID: 7663124280
- * Last Name: NOAH
- * First Name: DOMINIQUE
- Middle Name: (empty)
- DOB: 1955-05-14
- Gender: MALE

The 'Order' column shows the following data:

- 9337118889
- 04622617
- 7663124280
- NOAH
- DOMINIQUE
- (empty)
- 1955-05-14
- (empty)

Below the comparison, the 'Current Match Status' is shown as 100% with a green checkmark icon. There are 'Cancel' and 'Reconcile' buttons. A 'Search Criteria' section is also visible.

Search Results (1 Order)

Order #	Priority	Patient ID	Account #	Last Name	First Name	Middle
9337118889	STAT	04622617	7663124280	Noah	Dominique	

Figure 6-3 No exact match

Match Order

Match Fields

ECG 16-Jan-2004 3:22:54 PM

Match Fields	Order
Order #	
* Patient ID	
Account #	
Encounter ID	
Last Name	
First Name	
Middle Name	
DOB	
Gender	

Current Match Status

Cancel Reconcile

Search Criteria

Search Results (0 Orders)

Order #	Priority	Patient ID	Account #	Last Name	First Name	Middle
No data						

Figure 6-4 Multiple matches found

Match Order

Match Fields

ECG 16-Jan-2004 3:22:54 PM

Match Fields	Order
Order #	9337118889
* Patient ID	04622617
Account #	7663124280
Encounter ID	
Last Name	NOAH
First Name	DOMINIQUE
Middle Name	
DOB	1955-05-14
Gender	

Current Match Status

Cancel Reconcile

Search Criteria

Search Results (2 Orders)

Order #	Priority	Patient ID	Account #	Last Name	First Name	Middle
9337118889	STAT	04622617	7663124280	Noah	Dominique	
3139169827	STAT	50335822	3083929311	Karen	Gina	

Once orders are loaded, you are ready to locate and select the order to reconcile with this study, as described next.

Locating and Selecting the Order to Match

In most cases, a single order will match and will be automatically selected. If this is not the case, locate the order as described here.

To locate and select the order to match

1. If orders are listed in the Search Results list, scroll through the list of retrieved orders to find the order to match to the study.
2. If you find the correct order, select it. If the correct order is not in the list, you can change the search parameters, as described in "To change the search parameters within the Match Order window" on page 89.
3. Proceed to "Reconciling the Study and Order" on page 90.

To change the search parameters within the Match Order window

Change the search parameters when the initial search does not return the desired order.

1. If the **Search** section of the Match Order window is hidden (collapsed), click **Search Criteria** to display it.

The screenshot shows the 'Match Order' window. At the top, it displays 'Match Fields' for 'ECG 16-Jan-2004 3:22:54 PM'. Below this, there are input fields for 'Order #', 'Patient ID' (SSS068564533), 'Account #', 'Encounter ID', 'Last Name' (NEWT), 'First Name' (MARIA), 'Middle Name', 'DOB', and 'Gender' (FEMALE). A 'Current Match Status' section shows a red 'X' icon. There are 'Cancel' and 'Reconcile' buttons. A red box highlights the 'Search Criteria' section, which includes fields for 'Order #', 'Patient ID', 'Account #', 'Last Name' (NEW%), 'First Name', 'Gender' (Female), 'DOB', 'Start Date' (03-Apr-2021 15:09:32), 'End Date' (06-Apr-2021 15:09:32), 'Outbox' (<All>), 'Status' (<All>), and 'STAT' (checked). A 'Search' button is located at the bottom right of this section. Below the search criteria, the 'Search results (0 Orders)' section shows a table with columns: Order #, Priority, Patient ID, Account #, Last Name, First Name, Middle. The table is currently empty, displaying 'No data'.

2. Enter the field values as needed, and click **Search**. Any matching orders are displayed in the Search Results list.
3. Locate and select the matching order, if retrieved, then continue from step 2, on page 89.

Reconciling the Study and Order

After locating the order to match to the selected study, you can reconcile the two, which is a requirement before you can export the confirmed study and send the results back to the HIS to complete the order cycle.

Note:

The system administrator can define automated workflow rules that can be triggered by an automatic or manual reconciliation of a study and order, or by a manual unreconciliation of a matched study/order pair. A variety of actions are supported, including printing and exporting the study, sending an email notification to a designated person, and sending a message to the HIS that a study was unreconciled and does not have an associated order. Discuss the options with your administrator.

Studies and orders are matched according to the reconciliation rules described next.

About Reconciliation Rules

Reconciliation is the process of matching an study to an order. It is important to proceed carefully to ensure that you are matching the correct study/order pair.

Data discrepancies between the order and the study are handled differently depending on whether the order ID matches, as described next.

- **Case 1. The study either does not have an order ID (no associated order) or the order ID matches the order ID in the selected order.**

In this situation, all order data except for empty field values overwrites the data in the same fields in the study. For example, if the **Last Name** is spelled "Jana" in the order, but is spelled "Jania" in the study, after reconciliation, the **Last Name** in the study record will reflect the spelling in the order, "Jana."

Fields in the order that have been left empty do not overwrite any data in the study. For example, if the **Operator ID** field in the order is empty, any value in the **Operator ID** field in the study remains in the study record after reconciliation.

Upon reconciliation, a dialog box is displayed that shows all of the data that differs between the order and the study. This list is dynamic; only those field values that are different are displayed; the contents of this dialog box change with every study and order you reconcile. You are prompted to confirm that you wish to overwrite the study data with the order data presented.

Caution

It is particularly important to carefully review the contents of this dialog box. It is possible that clinically significant data, which could affect the interpretation generated by the Philips 12-Lead Algorithm upon acquisition, could be changed (for example, date of birth or gender). If there is any question about the accuracy of this data in the order, resolve the discrepancy before reconciling the study and order.

Copy Order Data?

Order #: PNO10231581
 Patient ID: MRN036932
 Account #: AN002595
 Encounter ID: 99405613
 Patient Name: Alize, Lesley
 DOB: 1991-01-10
 Race: Asian
 Weight: 62 kg
 Height: 170 cm
 Room #: Room1
 Bed #: 001
 Unique Order Id: 20210526.5163037.4708.19258
 Order Process Status: Reconciled
 Order Process Status Date Time: 2021-06-17T10:16:46
 Order Request Date Time: 2021-05-26T16:30:36
 Priority: NORMAL
 Reason for Order: Patient wanted to have the Study
 Encounter ID: 99405613
 Inbox: AA1_Floor2
 DRG Category 1:
 Ordering Clinician UPIN: OPID0001
 Ordering Clinician Name:
 Dr.^Ordering0001^OPMiddle0001^Provider0001^S, OP
 Attending Physician UPIN: ATID0001
 Attending Physician Name:
 Dr.^Attending0001^ADMiddle0001^Doctor0001^S
 Referring Physician UPIN: RDID0001
 Referring Physician Name:
 Dr.^Referring0001^RDMiddle0001^Doctor0001^S

Cancel OK

- **Case 2. The order ID in the study does not match the order ID in the selected order.**

In this situation, the assumption is that the study was previously reconciled to a different order. To avoid any possibility of retaining old incorrect order data upon reconciliation with a new order, all of the following fields in the study are first cleared:

- All patient demographic data
- All user field data and other information present in the Additional Data section of Summary view (except for Diagnosis, history, and medication codes, as described below)
- Physician information

- Order information

The following information in the study is *NOT* cleared or modified in any way:

- Location information
- Information related to study analysis, including interpretation, measurements, and severity
- Diagnosis, history, and medication codes (DX, HX, RX, SX)

After the fields are cleared, the study is populated with data from the order. Fields that do not have corresponding values in the order are left blank.

For example, if the study has the values presented in column A (below), and the order has the values presented in column B, upon reconciliation, the study will have the data shown in column C.

Study Data (A)	New Order Data (B)	Reconciled Data (C)
Order #: 1234	Order #: 0987	Order #: 0987
Last name: Orbit	Last name: Orbet	Last name: Orbet
Institution: Hospital 1	Institution: Hospital 2	Institution: Hospital 1
Severity: Abnormal	Severity: Normal	Severity: Abnormal
RX: Drug 1	RX: Drug 2	RX: Drug 1
Operator ID: JSK	Operator ID:	Operator ID: JSK

Upon reconciliation, a Copy Order dialog box is displayed that shows which data in the study will be overwritten by new order data. You are prompted to confirm that you wish to overwrite the study data with the order data presented.

Caution

Review the data in the study and in the order to reconcile with very carefully to ensure that you are matching the correct study and order.

To reconcile the current study to an order

1. After locating the correct order, as described in the previous sections, click **Reconcile**.

After a brief period of time, the Copy Order Data dialog box appears. The wording of the dialog box depends on which reconciliation rules are in effect, as described in "About Reconciliation Rules" on page 90.

2. Carefully review the information presented, and if satisfied it is correct, click **Yes** to reconcile the study and order, and close the Match Order window.

Caution

If you notice that you inadvertently reconciled the study with the *wrong* order, **DO NOT** save these changes. Rather, redo the initial study search, and start the reconciliation process over again from the beginning.

- Once back in Summary view, click **Save** in the Action bar to save these changes to the database.

Important:

*Reconcile workflow actions are dependent upon the **Save** button being pressed.*

Unreconciling an Order/Study Pair

You can unreconcile an order/study pair so that you can re-reconcile the order with a different study.

You must first unreconcile the study, and then you can re-reconcile to the correct order.

To unreconcile a study from an order, click the **Unreconcile** button.



You are prompted to confirm removing the link between the order and the study.

When unreconciled, all order-related fields are cleared from the study except the following:

- Leave as is: Patient ID
- Leave as is: Firstname, Middlename, Lastname
- Leave as is: Height
- Leave as is: Weight
- Leave as is: Blood pressure
- Leave as is: OperatorID
- Leave as is: OperatorName
- Set: Sex = Unknown

Remove Order Data?

Remove the following order data from this study?

Order #: PNO10231581
Account #: AN002595
Age: 1991-01-10
Gender: Female
Race: Asian
Room #: Room1
Bed #: 001
Unique Order Id: 20210526.5163037.4708.19258
Order Process Status: RECONCILED
Order Process Status Date Time: 2021-06-17T10:27:17
Order Request Date Time: 2021-05-26T16:30:36
Order Priority: NORMAL
Reason for Order: Patient wanted to have the Study
Encounter ID: 99405613
Inbox: AAI_Floor2
Ordering Clinician UPIN: OPID0001
Ordering Clinician Name: Dr. ^Ordering0001^OPMiddle0001^Pr
Attending Physician UPIN: ATID0001
Attending Physician Name: Dr. ^Attending0001^ADMiddle0001^D
Referring Physician UPIN: RDID0001
Referring Physician Name: Dr. ^Referring0001^RDMiddle0001^D

Cancel

4. Click **OK**, or to cancel the operation, click **Cancel**.
5. Once back in Summary view, click **Save** to save these changes to the database. Once unreconciled, the process status of the order is changed back to *New*. The previously reconciled order information is included in the study XML. You can now re-reconcile the study to the correct order.

IntelliSpace ECG Anywhere Keyboard Shortcuts

This appendix describes the keyboard shortcuts available for IntelliSpace ECG Anywhere.

Keyboard Shortcuts

Click anywhere on the application page, then press the desired key or key sequence.

Table A-1 Navigation & Function Keys

Shortcut Key	Description
Ctrl-1	Review the two ECGs in Stack mode.
Ctrl-2	Review the two ECGs in Side-by-Side mode.
Ctrl-3	Review the ECG with superimposed representative beats on the right.
Ctrl-[Add modifier to the left of the current modifiers.
Ctrl-]	Add modifier to the right of the current modifiers.
Ctrl-A	Select all.
Ctrl-E	Start editing.
Ctrl-K	Confirm the current study.
Ctrl-R	Review all selected ECGs.
Ctrl-S	Save changes to the current study.
Ctrl-Y	Redo the last action.
Ctrl-Z	Undo the last action.

Shortcut Key	Description
Page up	Zoom in the waveform.
Page down	Zoom out the waveform.

Table A-2 Keyboard Shortcuts for Statement Editing in Statement View

Keyboard Shortcut	Description
Ctrl-Ins	Insert a new statement below the current selected line.
Start typing <i>or</i> Ins	Insert a new statement above the currently selected line.
Tab	Cycle forward through fields when adding or editing a statement or remark. Use the Tab key to skip a field, as needed. After finishing editing statements, the Tab key moves to the Severity field.
Shift-Tab	Cycle backward through fields (move the cursor to the previous field).
Esc	Cancel editing of the current statement and return to the Interpretation window.
Arrow keys → ← ↓ ↑	Within the Interpretation window, use the Up/Down arrow keys to move up and down between statements and remarks. Within a field/code drop-down list, use the Up/Down arrow keys to move up and down through the list to highlight the desired code or modifier. Press <i>Enter</i> to finalize the selection.
Ctrl-Left arrow ← Ctrl-Right arrow →	Within the Interpretation window (on Statement view and Waveform view), move between a patient's ECGs using the keyboard. Ctrl- ← moves to the next ECG on the left; Ctrl- → moves to the next ECG on the right. When you reach either end of the tab headers, use the opposite arrow to reverse direction.

Keyboard Shortcut	Description
Enter	Within a statement, accepts the specified values and adds the statement, or completes the editing process, and returns to the Interpretation window. Within a field/code drop-down list, selects the highlighted entry and inserts it into the current statement.
Backspace <i>or</i> Delete	Clear the last character typed. Continue pressing the key to clear the field.
Ctrl+Shift+Alt+F	Disables fuzzy searching in statement lists.
Ctrl+Alt+F	Enables fuzzy searching in statement lists.



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