

Simplifying Diverse Clinical Workflow. One Consolidated EMR Interface.

Cardio Server 6.0 – E3 Desktop

User Manual



European Authorized Representative CEpartner4U BV



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FUJIFILM Australia Pty Ltd is the exclusive dealer for the Epiphany Cardio Server ECG Management System in Australia and New Zealand.

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Intended Use: The Cardio Server ECG Management System software is intended to be marketed to medical professionals and for point-of-care use. The software is designed to work with ECG Management databases located throughout the medical community that commonly store, retrieve, display, edit, and print high-resolution records of ECG data received from devices. The Cardio Server ECG Management System software allows medical professionals responsible for the diagnosis and treatment of patients (adult and pediatric) with heart disease to do the following:

1. Review specific patient ECG data which is available through on-screen display, printer, email, fax, or Hospital Information System (HIS) results which report by interface or other customized databases.

2. Analyze ECG data using calipers for measurement of various intervals. The Cardio Server system does not modify the original ECG waveform information, but it does provide an automated ECG interpretive analysis of the data. The ECG data display can show 1, 3, or 12 leads at once, full disclosure, user-selected strips, interpretations (editable by physician), and lists studies using various filters (study type, patient, etc.). Resulting ECG records are all associated by patient ID and include the physician interpretation.

Cautions



Federal law restricts this device to sale by or on the order of a physician. ECG tracings and serial comparison results must be reviewed by a trained medical professional.



Device software modifications, after standard forms are implemented, may result in incorrect data-mapping. Mapping of fields must be validated by the user after any device software modifications. Failure to do so may result in blank fields or incorrect data-mapping.



Carefully read all instructions prior to use. Observe all warnings and precautions noted in these directions. Failure to do so may result in patient complications.



Cardio Server 6.0 E3 Desktop is validated for use with Microsoft Edge (Chromium) and Google Chrome. If users choose to use a different web browser, please be advised that certain functions of Cardio Server may not work as anticipated.



Screenshots in translated versions of this manual retain English labels.



Minimum Luminance & Contrast requirements: luminance of 35 cd/m2 and a contrast not less than 7:1 under normal, ambient lighting conditions. Typical LCD display standards exceed the above requirements.



Screenshots in this manual contain de-identified demographic data. No protected health information ("PHI") has been used. Epiphany Healthcare is fully compliant with the Health Insurance Portability and Accountability Act ("HIPAA") Privacy Rule, the Health Information Technology for Economic and Clinical Health Act ("HITECH"), and the Omnibus Rule.

ACCESSING & LOGGING IN

Within facility - From any internet-enabled computer (*Microsoft Edge (Chromium) or Google Chrome*) on the facility's local area network (*LAN*), type the web address or the name of the Cardio Server server into the web browser's address bar.

Remotely - From any internet-enabled computer (*Microsoft Edge (Chromium*) or Google *Chrome*) with sufficient access to the network where Cardio Server resides, type the web address or the name of the Cardio Server server into the web browser's address bar. Contact local IT for further directions.

Note: This manual applies to Cardio Server 6.0 E3 Desktop.

If pop-ups are enabled, the login screen will appear. If not, select <u>Enter Cardio Server</u> to display the login screen.



Type a *Username* and *Password* into the appropriate fields, remembering they are case sensitive. Change the domain if necessary. Select <u>Enter</u>.

Cardio server	
Username*	
Password*	
ENTER	

ACCOUNT LOCKOUT

Multiple failed attempts to log in will result in lockout of the user's account. The account can be unlocked by an Admin user. Contact your local system administrator for Cardio Server.

	Cardio
	server
User exceed administrate	ed allowable logon attempts. Please contact your or to unlock this account
	Usefname* jdoe
	Password*
	ENTER

INBOX

The *Inbox Settings* and list of studies will be displayed upon login. Site access and default settings for the initial login are based on the user's primary account in Cardio Server Classic. The *Inbox Settings* may be modified and saved by the user as the new default settings in Cardio Server E3 desktop. Changes made to the E3 desktop Inbox Settings will not be reflected in Cardio Server Classic.

C 17	1 Results									0 8 ≡
Ölatiat.	Data Performed	Pattert Name	Patent ID 1	000	Sile I	Reading Provider 1	Beforing MD	Type 1	Location 1	(
P	12/14/2008 07:54:00	KOLLAR, MILLARD	0400550592	11/6/1956	Acell	CAROLYN MOSBY	JACQUE NOEL	800	C0U4D	1
P	12/14/2008 09:14:00	ALLEN, NOSE E	0100070298	1/10/1996	Mercy-t	SUZANNE A NANISTA	NOCALLUM	tog	SP-ED	I
P	12/14/2006 09:15:54	AHMED THERM.	8100105019	6/29/1942	Meny	JOYCE & FRAZER	MCELDERRY TOCE/VERGER	870	8iOU	I
P	12/14/2006 09:27:57	HUBBARD, BARRY L	0100771642	10/8/1928	Grace 2	KATHERINE A FEVELLA	MICKEY ZER	EÓG	8D5	E
P	12/14/2006 10:03:35	CARROLL, RERMARD	0100490105	3/25/1947	Ace-6	LASHEA RUPPELT	MALENTINO	105	10	ł
P	12/14/2006. 11:03:17	STEWART EDWARD T	0100613491	5/(7/1983	Page-4	KAREN M TEACHOUT	FONTENOT	ECG	ETL OP.	1
P	12/14/2506 11:10:48	RUSHINO, WALLA	0100837324	4/6/1954	Orace1	OVRILLA S OLARK		ECO	£31-6P	I
P	12/14/2006 11:55:46	SOUTT, JERRICA	0100154299	4/12/1962	Hope-2	ALMA C WEISER	BURNELL	805	SCN-J-SDS	1

Inbox Settings

Status: Select the drop-down arrow to display the list of *Status* options. The options will vary based on user-role. Select one or more status options by selecting the box associated with the setting. Close the list by selecting **ACCEPT**.

Unconfirmed	
Preliminary	
Unconfirme	ed
Confirmed	
Read	
Stored	
Trash	
ACC	EPT
UPDATE	

Once the Status list is closed, select <u>UPDATE</u> to update the study list in the *Inbox*. If desired, select <u>SAVE DEFAULTS</u> to maintain the setting as the new default.

Statue	
Preliminary	*
tite	
Mercy	
Search By	
Patient Name	*
Type	
ECG	
Search	
UPDATE	
nation personality	

Note: When searching *Confirmed* or *Stored* studies, a search criteria of one or more characters is required in the *Search By* field. (See *Search* field below.) Other status levels (*Preliminary, Unconfirmed,* and *Read*) may be searched with a blank *Search By* field.

Site: Select the drop-down arrow to display the list of *Site* options. Choose one or more sites by selecting the box associated with the *Site* name. The "*Select All*" and "*Deselect*"

All" options toggle to allow ease of selection. When Site selection is complete, select **ACCEPT.**

Note: Site access is user-specific and determined by the local system administrator.

Preliminary	
Mercy	
Select All	*
Grace	÷
Mercy	
MMC	
ACCEPT	

Once the drop-down list is closed, select <u>UPDATE</u> to update the study list in the Inbox. If desired, select <u>SAVE DEFAULTS</u> to maintain the setting as the new default.

nbox Settings	
Status Preliminary	*
Site Mercy, MMC	*
Study Assignment All	*
Search By Last Name	*
Search	
UPDATE	-0
SAVE DEFAUL	TS

Study Assignment (Workflow Option): This filter is enabled based on workflow requirements and is most often used by Sign Users. When enabled, the list may not contain all the options described below. Only options that apply to your specific workflow will be available.

a. All: User's Inbox defaults to all studies and user has access to all studies.

b. *Mine*: User's Inbox defaults to user's assigned studies. User may also have access to studies not assigned to him/her if additional options are selected.

c. *Unassigned*: User has access to studies that have not been assigned to a specific reader.

d. Assigned: User has access to studies that have been assigned to a reader.

Choose the drop-down arrow to display the list of *Study Assignment* options. Choose one or more options by selecting the box associated with the filter. Select <u>ACCEPT</u>.

Inbox Settings	
Status Preliminary	-
^{Site} Mercy	~
Study Assignment All	
Mine	•
Unassigned	
All	
Assigned	
ACCEPT	3

Once the drop-down list is closed, select <u>UPDATE</u> to update the study list in the Inbox. If desired, select <u>SAVE DEFAULTS</u> to maintain the setting as the new default.

Inbox Settings	
Status Preliminary	*
Site Mercy	*
Study Assignment Mine, Assigned	*
Search By Last Name	*
Search	
UPDATE	
SAVE DEFAULTS	

Search By: Select the drop-down arrow to view the Inbox *Search By* options. This selection will determine the search value used in the *Search* field. One option may be selected to determine the criterion for Inbox search. Once the option is selected the list will close.

Inbox Settings	
_{Status} Preliminary	Ŧ
Site Mercy	*
Search By Patient Name	▼
Pat ID	Ŧ
- Location	
- Date-Time Performed	
Reading Provider	
Referring MD	
Patient Name	

Search: Enter the desired *Search* value and select <u>Update</u> to filter the Inbox. When searching *Patient Name*, the following format options are available: Example patient – *Doe, John*

- Search last name Doe
- Search last name, first name Doe, John
- Search last name, first initial or first few letters of first name Doe, J or Doe, Jo
- Search beginning letters of last name, beginning letters of first name D, Jo

Note: The Search value options are determined by one of the Search By settings (*Patient ID, Location, Date-Time Performed, Reading Provider, Referring MD, Patient Name*). When searching *Date-Time Performed*, a calendar will be presented for date selection.

Inbox Settings	4	C	1 Resulta							H H H
Prefaminary			Marce	Data Performed *	Palant Waters	Patient (D)	5N)	Reading Provider	Cocamer (1	
inn Marcy			Р	6/28/2020 21:21	JOHNS, COLBY	0001515	Mercy	.i Smith	Cardiology	1
All										
Pitt (D										
Deptition	×									
UPDATE										
DAVE DEFAULT	12									

Select the "X" in the Search field to clear the search value.

Status Preliminary	÷
Site Mercy	-
Study Assignment All	
Search By Last Name	÷
Search adams	×
UPDATE	

Type: Select the drop-down arrow to view the available report *Type* (modality) options. Choose one or more types of reports by selecting the box associated with the *Type* name. The "*Select All*" and "*Deselect All*" options toggle to allow ease of selection. When *Type* selection is complete, select <u>ACCEPT</u>.

Prelin	ninary	\sim
the Ace, J	Ace-2, Ace-3,	Ac *
Beach Patie	Ey nt Name	
Type ECG		•
	Select All	
	STRESS	
	ECG	
	PFT	_
	HOLTER	
	EVENTS	
	ICD	
	PACER	
	PACER	PT P

Note: Multiple *Type* selections will result in the addition of an Inbox column header to identify the report type. The *Type* column will not be displayed if only one report *Type* is selected.

e	C zo hende											
11	Styles	Date Porformed *	Patient Name 1	Patent © 1	D08 :	She (Reading Provider	Referring MD	Type 1	Excetoe (
11	U	1/15/2007 12:17:00	WINTER, KEITH	D1005058801	8/27/1650	Peace 2	MARY HEMMICK	MOELDERRY	ECO	PACU	1.0	
11	U	1/28/2013 19:00:00	Midlarthy, Arm	040027301	6/17/1980	Paice 2	Jonathan Silver	JANIE M CLARK	PFT	505	1	
10	U	6/17/2013 12:00:00	JMINEZ JAVER	J76548	5/4/2013	Prace 2	Junathan Silver	JANIE M OLARI	HOLTER	sicu		
10	U	8/20/2013 10:00:00	McCarthy, Ann	010027361	2/37/3979	Peace 2	Jonathan Séver	JohnBliver	PFT	410	1	

Inbox Background Colors

A study's background color in the Inbox denotes a specific meaning. Standard workflow studies are displayed with a white or gray background. A red or pink background indicates other study designations. This is an optional workflow and its use will be determined by the local system administrator.

Critical Statement Notification ("CSN") ECG studies are displayed in the Inbox with a red background and a caution symbol located to the right of the study information. When this optional workflow is used, CSN studies will be displayed at the top of the Inbox above all other designations.

Inbox Settings		c	C 13 Results									
Total Preliminary, Uncon			Status	Date Performed *	Patient Name II	Patient ID II	She 1	Reading Provider	Location 2			
IIIe Mercy, Peace, MMI	-		0	3/5/1992 18:12	FRANKLIN, RIC.	D400000047	Mercy	Holly Alien		4	1	
Duty Assignment All		.0	U	3/12/2014 12:08	CASTERLINE, 0.	DI0000076	MMC				1	
Seeth By Last Name		П.	U	3/20/2014 06:30	FRANKLIN, RIC	Di0000047	MMC	sign user	CDU		1	
Dearth		Ξ.	U	10/30/2014 06:27	JOHNS, COLBY	DI001515	MMC		Cardiology	P	1	

STAT studies have a pink background in the Inbox. When this workflow is used, a STAT ECG will be displayed above all standard ECGs in the list and below any Critical Statement Notification ECGs.

Inbox Settings	C	C 12 Results									
Preliminary, Uncon		Shafua	Date Performed *	Patient Name: 1	Patient /D 🗄	Site 0	Neading Provider 🗧	Location 1			
Ste Mercy, Peace, MMI *	11	0	3/23/2020 06:14	COX, KATHERINE	D100000011	Mercy	8.Smith			1	
Study Assignment	-	U	3/12/2014 12:08	CASTERLINE, 0.,	Di0000076	MMC				1	
house by	1	U	3/20/2014 06:30	FRANKLIN, RIC.	DI0000047	MMC	sign user	COU		1	
Cost Name		U	10/30/2014 06:27	JOHNS, COLEY	D/001515	MMC		Cardiology	10	ī	

Locked studies have a yellow background and lock icon to indicate that the study is open for editing by another user. Only one user at a time may perform edits. Other users may select and view the study while it is being edited.

Inbox Settings		C 3R	osults:					₩ 🖽 =
Preliminary	*	Status	Date Performed *	Patient Nome 1	Patient ID	Site II	Reading Provider Location	e.
UH CTS, Grace, PCH		Р	3/23/2020 05:28	FRANKLINE, RIC	Di0000047	PCH	Cardiology	f.
Study Assessments		P	3/23/2020 08:35	ADAMS, JACKEY	DI00000105	CTS		
All	· ·	P	6/28/2020 01:15	MOFFET, SARAH	DI00000144	Grace		ê
Start-filly Last Name	÷							
Search								
-								
UPDATE								
SAVE DEFAULT	5							

When a locked study is opened a message containing the name of the user who is editing the study will be displayed at the bottom, left of the screen. See examples below: *"This study is currently locked by pbwhite."* There will also be a lock icon beside the study status.



Inbox Header Icons and Functionality

Tooltips are provided for each icon in the application. A text label will appear when the user hovers over each icon.

Refresh icon updates the Inbox list.

Q 164	C 154 Results											
Refresh	Data Performed	Patient Norre 1	Patient ()	208 6	84x -1	Banding Provider	Bellering MD	Location (Ĩ		
P	10/14/2006 07:18:31	SLATES, HAROLD L	0100658597	9/6/1934	Perce	CHRISTINE JONES	WELCH	BMHP-KOV		1.		
P	1E/14/2006 07:28:00	JOHRISON, DEBORAH	D80213399	12/28/1942	Ace	KIMBLE BILLIANDR	NOEL	CDO-IP		1		

<u># Results</u> displays the total number of studies in the Inbox based on the Inbox Settings filters.

C	C 153 Results										
	Status	Date Performed	Patient Name 🔅	Patient ID 🔅	Site 4	Reading Provider	Location	ĺ			
	U	12/17/2006 05:44:16	AHMED, SHERYL	DI00105019	Peace-ED	MARY A LAVENDER	PICU	I			
	U	12/17/2006 06:37:58	ELLIS, KAREN	DI00051816	Peace-7	MELANIE L ELLIS	CDU-DR	1			
	U	12/17/2006 12:00:31	EDWARDS, JOESEPH	DI00636235	Peace-9	GAYLE WILLIAMS	PACU	1			

Restore Skipped returns skipped studies to the Inbox.

e e	C 471 Results on 1 Skipper											
	in Rea	tive Skipped med +	Patient Name	Patient (D =	008	She :	Reading Provider 1	Referring MD	Location 1	1		
8	U	12/17/2006 16:01:02	BRADFORD, PALL	D400766713	3/3/1968	Grane2	CHRISTINE JONES	YOUNG PERINON	SCNU-ICU	I		
	U	12/17/2006 16:12:44	ENDO, MEMEOND	D400706839	2/14/1927	Ace 1	FRANCES WILKINSON	PEBRON	SP40J	ŧ		
10	U	12/17/2006 18:10:41	BEATTY, CARLA	Dittopasaba	310/2/1903	Dentral-W	BETTY CRIVIN	STUEBEN BAKER / PERRON	ici.i	I		

Skipped displays the number of studies skipped and not displayed in the Inbox.

o,	C 472 fissults in TStoppel										
	Datus.	Date Performed *	Patient Name 1	Patient ID =	008 1	344.3	Reading Provider	Referring MD 1	Location ::		
10	U	12/17/2006 16:12:44	ENDO MEMEDINO	D480705839	2/14/1927	Alerit	FRANCES WE KINSON	PERRON	SPHOU	1	
	0	12/17/2006 18:10:41	BEATTY, CARLA	D100049904	30/2/1903	Gentral-II	BETTY CRAIN	STUEBEN BAKER / PERRON	ICU	1	

History allows the user to view all reports accessed within the 24-hour calendar day.

C 120 Results										
	Thatas.	Data Partnessed *	Patient Name 1	Patient ID	008	2/4	Boarding Provider 1	Halarring MD	Lacation 1	History
10	Ρ	12/15/2006 15:54:02	TODO, MICHAEL	0100400112	10/20/1940	Grace-6	KAREN L MODOWELL	DONET	ETL-OP	T
11	P	12/15/2006 16:37:10	OUGAN, SHIRLEY D	D-00178182	8/38/1930	Central 2	WILLIE CRANMER	TEDESCO	SIG1/	1

Flag icon allows the user to filter the list results to only those studies with the **Flag** designation. The **Flag** color toggles between yellow and white to indicate the status of the filter. A yellow **Flag** indicates the filter is on and only flagged studies will be displayed in the list. A white **Flag** indicates the filter is off and both flagged and unflagged studies will be displayed in the list. In the screenshot below, the **Flag** filter has been selected and only flagged studies are displayed in the list. Select the yellow **Flag** in the header to remove the filter from the search criteria.

C Ellenda es 2 Signal							0	• 3 =		
libriat.	Dete Performed *	Pattern Nerve	Pattern ID -	008 1	SHr I	Reading Provider =	Referring MD	Locafterr #	Regge	Studies
P	12/14/2006 09:15:54	AHMED, SHERVL	8400109019	6/29/1942	Messy	JOYCE A FRAZER	MCELDENRY TODE/YERGER	tirou:	=	ŧ.
P	12/14/2006 11:10:43	BUBHING, WALLA	0100897024	4/6/1954	0xece-2	CYRELA'S CLARK		ETL-OF	F3	1

Log out icon logs the user out of the application.

C 10	4 Rendfa								0	= 3 =
litutus	Data Performed	PatientNate: 1	Pattern ID	D06 I	21e 1	Reading Provider	Referring MD +	Location 1		Logout
P	12/14/2006 07:18:01	SLATES, HAROLO L	0100668897	3/9/1954	Pesty	CHRITTINE JONES	WELCH	SMH#100		I.
P	12/14/2006 07:23:00	JOHNSON, DEBORAH	DI00213398	12/28/1942	Ane	KIMBLE BILLIANOR	NOEL.	COUHP		E C

Menu icon opens a panel containing additional information and actions.

C 161	l Romatta								0 = 3 =
Sister.	Date Performed *	Patent Narie	Patlavit ID	DOB	214	Reading Provider 1	Referring MD	Lucation	s Mens
P	12/14/2006 07:18:01	SLATES, HAROLD L	DI00658997	9/6/1934	Peace	CHRISTINE JONES	WELCH	SMHP IC	starter 👬
p	12/14/2006 07:23:00	JOHRISON, DEBORAH	0002133998	12/28/1942	Ace	KINELE BILLIANOR	NOEL	CDU-IP	O User Mercual
P	12/14/2006 07:54:00	KOLLAR, MILLARD	040550692	11/6/1956	Ace-5	CAROCYN MOSBY	JACQUE NOEL	COUHD	About Catillo Server
P	12/14/2000 GB 42:56	EDWARDS, BELINOW	000112194	1/8/1921	Central-E	N4N 2 MCCANLESS	MODARBON	ETL-IP	Chamite Lit
P	12/14/2006 0914:00	ALLEN, ROSE E	0.00070298	1/18/1996	Merry-6	SUZANNE A NAMISTA	MCCALLIAM	$_{0^{p}\in\mathbb{D}}$	E Legeur
P	12/14/2006 00:15:54	AHMED, SHERYL	D(00105819	6/29/1942	Merny	JOYDE A FRAZIER	MOELDERRY TDCE/VERGER	BIDJ	
p	12/14/2006 10:03:95	CARROLL BERNARD	0/00498135	B/25/1947	Acet	LABHEA RUPPELT	VALENTINO	ED	C5 weeker: 5.0.1.16
(P)	12/14/2006 11:09:28	HILLER, ARMINDA C	D400544431	7/21/1950	Нореня	EDNA K HALLETT	WELCH	414	Server: co-vx epipharyhd.com Browser: Chrome BE0-4324.15
P	12/14/2006 11:10:49	RUSHING WALLA	0100837324	4/6/1954	Quee 2	CYRILLA S CLARK		ETL-OP	il Platform Windows 10
(P)	12/14/2006 11:55:48	BEETT JERRICA	D00154299	6/12/1962	Hope 7	ALMA C WEISER	BURNELL	SON-FSD	s i

- User Manual: Loads the E3 Desktop User Manual with options to view, print, and download.
- About Cardio Server: Contains the CE mark and UDI barcode information.
- Classic UI: Allows a user to switch to the Cardio Server Classic mode. Cardio Server Classic has an <u>E3 UI</u> option that allows the user to return to the E3 Desktop mode.
- Logout: Logs the user out of the E3 desktop application.
- CS version: Cardio Server software version number.
- Server: The server name.
- *Browser:* The current browser in use.
- *Platform:* The current platform in use.

Inbox Columns

									○ = 8 =
Thefai	Base Performed 1	Patent Sens *	Famora Lill II	000 1	\$10.5	Reading Provider 1	Feferray MD : :	seconce ;	1
u	111122007 1996.01	HILDENRED EDITH	398027036	\$23/1987	Grana-H	MARTTHA GUY	BATHON	100.04	1
10	0.15/1964 10.22.72	HILL STANK, WELLAM	8101235445	1779/1914	Served 25	DORDTHY MALLER	ACCOLUMNER	64011	1
U.	140307 191710	HENOKAPU BUTG. PATRICIA	10001-00154	2/26/1922	Bermé-S	SHARON M YOUNS	NUMBE	5584P-910	1
P	10/14/2006 12/62/86	HOTHINS JOHNS, DOOGLAS IN	Intervent.	1/94/1970	Gevrait	ALL CE MINE	BRLOODENE TENDOCO	CDVIP	

Status: Denotes the status of a study

- P = Preliminary
- U = Unconfirmed
- C = Confirmed
- R = Read
- S = Stored
- T = Trash

Date Performed: Date and time the study was performed

Patient Name: Last Name, First Name

Patient ID: Patient ID number, typically a medical record number

DOB: Patient Date of Birth

Site: The Site to which a study is assigned

Reading Provider: Assigned Reader

Referring MD: Typically the ordering provider

Type: This column is only present when filtering on multiple report types (modalities); if searching one modality, the *Type* column is not displayed

Location: Location in which the study was performed

Note: Column headers that contain an arrow allow the user to select the arrow and sort the list in ascending or descending order

Study Actions from Inbox Action Panel

Study management may be performed directly from the Inbox. Access a list of frequently used actions by selecting the ellipsis (3 vertical dots) associated with the study. The blue background of the study indicates it has been selected. Options are available based on the user's role and the state of the study.

C 16	1 Monutos							}	
Status	Data Parformed	Patient Name *	Patient D 1	000 1	104-1	Reading Provider 1	Believing MD	Location 1	
P	12/24/2006 22:06:19	AFEMUL DOROTHY	DI00146179	6/14/1978	Gree-R	BARBARA OLINES	JUNEAU III	8MHP-ED	1
P	12/14/2008 00:15:54	ANMED SHERVE	0100105019	6/29/1942	Marcy	JOYCE A PRAZIER	MOBLDERRY TOCE/YERGEN	1000	1
p	12/16/2006 05:44:15	AHMED SHERM.	0/00106019	6/29/1942	Hope 9	2004/1 J 04685	MOELDERRY VERGER	ENVER ED	I
P	12/10/2006 12:56:43	AHMED, SHERVL	D(D0105019	6/29/1942	Ace-ED	DIANNE DAVIS	ANSEMAN TOCE	Hag	1.1
P	12/14/2008 09:14:00	ALLEN, ROSE E	0.00070298	3/38/3996	Mercy-6	BUZANNEA NANISTA	MICHLUM	Prot	5
P	1/11/2007 23:40:13	APPUNG EVANGELINE	DI00292829	1/1/2928	Ace7	MICHELLE HAVES	THOMPSON	Tranh	E
P	12/16/2006 10:10:30	AVEN: WILLIAM JO	000679128	12/19/1019	Apr-2	TRISHA D KLICK	SABATIEN	Delete	I
(P)	12/15/2006 03:42:27	BAKER THOMAS	D002709175	1/4/1933	Mercy-7	EBDNY LDWHY	THOMPSON	Assign to Sile	I
P	12/15/2006 08:49:02	BEEBE, LINDA	0100364666	1/10/1958	Grace 9	CAROL A RIEGEL	ODHET	Ageign to Reading MD	I
p	1/9/2007 22:22:43	BOOTH, DORIS	D100061425	7/7/1982	Peace-3	THERESA J HORNE	PEARSON	Records by (D	ī
P	12/17/2006 21:11:30	BUFKIN, CHARLES K	0/00542701	8/19/1927	Ace 2	DOROTHY C TOMAS VARBROUGH	JENKING THOMPSON	Neconsile by Name	1
(P)	12/15/2006 09:39:21	BURLER, KAVO	0.00064381	8/8/1927	Hope-3	FREDA H BECKWORTH	MOUNIK	Edit Note	I
P	12/16/2006 05:55:16	BURLER, KAYO	D100054391	8/8/1927	Since 2	HELEN & MODURE	MOUNH	ED	I

Flag: Select *Flag* to add the flag icon to the study in the Inbox and on the study detail page.

0	5 Reads									Ð	
	Shatua	Date Performed	Patient Name A	Patient ID =	008	254.1	Reading Provider =	Referring MD 1	Location I		
8	P	12/16/2006 12:56:43	AHMED: SHERYL	0400105019	6/29/1942	ALCED	SALLY REDOING	ANSEMAN TODE	SP-ED		I
8	P	1/11/2007 33:40:13	APPLING, EVANGELINE	0400292529	1/1/1925	Ace?	MICHELLE HAVES	THOMPSON	COU-SP	ring	
8	P	12/16/2006 10:10:02	AVERC WILLIAM JO	Di00579129	12/19/1919	Ace-ED	SALLY REDOING	LABATIER	Pittu	Print	
н.	Р	12/15/2006 08:49:02	BEEBE, LINDA	D100364686	1/10/1958	Grace 0	CAROL A MEGEL	ODHET	SKOU :	First	
10	(P)	12/17/2006 21:11:38	BUFKIN, CHARLES K	D100542791	4/19/1927	40 0 -4	DOROTHY C TOMAS VARBROUCH	JENKINS THOMPSON	SMHP-4W		1

UnFlag: Select the UnFlag option to remove the flag icon.

¢.	Still Person									0)	• 🖬 =
	Dates	Suta Performed A	Patrot Name	Patient (D)	000	Sie 1	Reading Provider	Referring MD-1	(institut)		
	P	12/15/2006 13:22:58	PPLE AVELYN	20003255884	10/19/1937	Grace7	RECOVERANTER	DDINET.	\$174,400	18	1
	P	12/15/2006 14/08/10	HADHIGHAT, APRIL	0100233039	8/5/1945	Central-8	MABLE MONTGOMERY	ODMET	50%3-4W	UniFieg	
10	P	12/15/2006 18:54:02	TODO, MICHAEL	0100461112	9/20/1940	Grace-6	KAREN L MODOWELL	ODINET	ETL-OF		1

Print: Select Print to open a dialog box to print the study PDF.

e i	ić Readita										= =
	Teres .	Data Parliament	Patient Name *	PaterciD	DOM (994.1	Reading Prevalue: 1	Referring MEL	Location 1		
	P	12/16/2006 12:56:43	ANNMED, SHERVIL	0400100019	6/25/1942	Acardo	SALUF REDDING	ANSEMAN TODE	39.40		
	P	1/11/2007 23:40:13	APPELING, EVANGELINE	0400092829	1/1/1905	No.7	MICHELLE HAVES	THOMPSON	CDU AP	They	
11	P	12/16/2006 18:10.22	AVERY, WILLIAM 20	0406/579129	12/19/1979	Jace ED	SALLY REDDING	SABATIER	PICIU	Post	
	P	10/15/2006 108-49-02	BEEBE LINEA	0402064666	1/10/1958	Grace-9	CARGE A REDAL	opinet.	ecu.	tinet	
i.	P	12/17/2006 23:11:38	BUFUEL CHARLES IS	0400542783	4/10/1927	Aug-8	DOROTHY C TOMAS WARROUGH	JENKINS THOMPSON	SMHT-4W		1

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The print dialog will vary based on the printer settings and the browser used at login. **Note**: Set printer Scale to 100% to maintain standard 25mm/second, ECG paper speed.



Trash: Select *Trash* to move the study from the clinical workflow to the *Trash* status. If the study is linked to an order, it must be unlinked prior to moving to *Trash* status.

UnTrash: Select UnTrash to move the study from Trash status to Preliminary status.

Delete: Select *Delete* to permanently delete the study. **Note**: If a study is linked to an order, you will be instructed to unlink the order prior to deletion.

C 16	7 Resulta							0	B B =
Ibria	Data Performed *	Patient Name 1	Pallent (D.)	508	Shr 1	Beading Provider .)	Referring MD	Location =	
U	12/18/2006 105/49/22	PASIBMAN, NEERAJ K	Di00684874	12/4/1935	Mercy-5	PHYLLIS J COBURN	ABSHIRE MICKEY	ETLIF	1
U	12/18/2006 96:02:17	AKINS SUSAN D	D100058425	2/27/1925	Grace-2	KUANA WREN	BIBBS DUGAL	Austor to Site	I.
0	12/18/2006 06:20:29	WYNNE, MAGGIE	D100206309	10/8/1940	Cartral 8	BRENDA MAKI	WELCH	Autriph to Reading MD	1
u	12/18/2006 06:53:29	BECHAN, WILLARD	0101742447	3/1/1923	Mercy 7	MARSINAH BROWN	DR MONER	Unlink Onlar # 4000124	I
U	This study connot be one	ved to the track because it is live	si to an order, thick from	23/1944	Riteroy-#	DEBORAH A BUETTNER	STELLY DEORE	Edit Notes	E

Assign to Site: Select Assign to Site to display a list of available sites.

C 16	7 Resulta							0		=
Batan	Bais Performed *	Patient Name	Palient D	008	Ste 1	Beading Provider 1	Referring MD	Location 1		-
U	12/18/2006 05:49:22	PASISMAN, NEEBAJ K	Di00684874	12/4/1935	Mercy-5	PHYLLIS J COBLINN	ABSHIME MICKEY	ETL#	1	-
U	12/18/2006 06:02:17	AKINS, SUSAN D	DI00058425	2/27/1925	Gisce-2	KIANA WREN	BIBBS DUGAL	Assign to SAw	I.	
(U)	12/18/2006 06:20:29	WYNNE, MADDIE	D100206309	10/8/1940	Cartrol-8	BRENDA MARI	WELCH	Averge to Reading MD	1	1
u	12/18/2006 06:53:29	BECHAN, WILLARD	0100742447	2/1/1923	Mercy 7	MARSINAH BROWN	DR MONIER	Velerk Ocher # 4000724	1	
U	12/18/2006 88:12:00	VALDEZ, MASSAN	DK00041354	B/23/1944	Mer(ý-#	DEBORAH A BUETTNEN	STELLY DEIORE	Edit Nora	E.	

Select the desired S*ite* or begin typing the *Site* name to narrow the list of options. Select **Assign**. The Inbox will be updated with the new *Site* assignment.

C 10	C Results								0 = 3 =
Status	Data Partamed	Patient Name 1	Pattern ID	D08 I	Die 1	Reading Provider 1	Referring MD	Location I	i
P	12/14/2006 07:18:31	SLATES, HAROLO L	D100668897	0/0/1934	Peace	CHRISTINE JONES	WEJOH	IMH#HCU	1
(P)	12/14/2006 07:29:00	JOHNSON, DEBORAH	DI00213398	12/18/1942		LIANCE	NOEL	CDU-P	1
P	12/14/2006 07:54:00	HOLLAR, MILLARD	0101550992	11/6/1955	Den	~ 40589	JADQUE NOIS	0004D	1
(P)	12/14/2006 08:42:56	EDWARDS, BELINDA	DI00112194	1/8/1921	Central	DANLESR	MOCARRON	TUP	I
P	12/14/2006 09:14:00	ALLEN, ROSE E	0100070298	1/18/1996	Certral 3	K NAMETA	De Caestral	IF ED	ī
(P)	12/14/2006 09:15:54	ANNED SHERYL	0100105019	6/29/1942	Cettral-E	AZER	CANCEL ASSIGN	acu	ŧ
p	12/14/2006 10:03:35	CARROLL, BERNARD	0100498135	3/25/1947	Certral-6	IPPELT		10	1

Assign to Reading MD: Select *Assign to Reading MD* to display a list of options. **Note**: The list is restricted to only those users having access to the study's site.

C 167	Results								9 🗭 E] ≡
Elañan	Data Performed *	Palient Name 1	Patient ID 1	000	Sk 1	Beading Provider 1	Referring MD	Lication 1		
U	12/18/2006 05:49:22	PASSMAN, NEERAJ K	D400684874	12/4/1985	Mercy-5	PHYLLIS J COSLAN	ABSHIRE MICKEY	Assign to Site	i	
U	12/18/2006 05:02:17	AKINS, SUSAN 0.	0100068425	2/27/1925	Grace 2	KIANA WREN	DIBSS DOGAL	Assegn to Reading MD	E	
(U)	12/18/2006 06:20:29	WYNINE, MASSIE	DI00206309	10/8/1940	Central-8	BRENDA MARO	WELCH	Unites, Order # 4200124	F	
U	12/18/2006 06:89:29	BECHAN, WILLARD	0400742447	3/1/1923	Meroy-7	MARSINAH BROWN	DR MONIER	Ealth Wester	E	
U U	12/18/2006 04:20:29 12/18/2006 04:20:29 12/18/2006 04:80:29	WYNNE MADDIE BECHAN, WILLARD	Di00206309 Di002742447	10/8/1945 3/1/1925	Central-8 Mercy-7	BRENDA MARO MARSINAH BROWN	WELCH DR MONER	Anarge to Re- Unline, Dider	# 4000124	# 4000124

The *Reading MD* dialog box will display with a list of site-specific names. Select the desired name or begin typing the name to narrow the list of options. Select <u>Assign</u>. The Inbox will be updated with the new *Reading MD* assignment.

C 16	Reads									B = 0	=
Danise.	Sate Parlament	Patient Name	Patient El 1	(909)	1.664.0	Tealing Pre	utilet	Referring MD	Lotation (
p	12/14/2006 12/14/01	BLATER HARDLD L	(Innexemp	9/8/15/4	Peace	Disting	E JONES	WELCH	10040-020	1	
P	12/14/2016 (27:23:00	JOHNSON, DEBORAH	04002132988	12/28/1942			-	NOEL.	(004-P	i	
P	12/14/2006 07:54:00	KOLLAR, MELARD	0100550902	11/6/1996	Reading MO		-	JACOUE NOEL	00040	1	
P	10/14/2006 (08:42:56	EDWARDS, BELINDA	8100112194	1/8/1921	Di MA	HY BRYAN	j a	MECATION	875,47	1	
P	12/14/2016 09/14:00	ALLEN, ROSE E	0.00070298	1/18/1996	Dr. BH	IYNA B	1574	Bauting HD	0	\$	
P	12/14/2004 (9115-54	AHNED, SHERVL	0400105019	6(29)1945	D: ALL BRDWD	UNDIN J		Dr. MARY BROAM		1	
*	12/14/2006 10:03:05	CARROLL SERNARD	0.00496138	1/25/1947	D: BRI MONT	FTNEX D GOMEY		CANCEL MAS	ag n	1	

Reconcile by ID: Select *Reconcile by ID* to search Cardio Server for an open order containing the same Patient ID as the study's Patient ID.

Reconcile by Name: Select *Reconcile by Name* to search Cardio Server for an open order with the same last name as the study.

C 164	C 164 Hanufta C 196 Hanufta											
Shenar	Date Performed 1	Patient Name *	Patient ID ()	D08 1	lite :	Building Provider 1	Referring MD	Lineation =	Î			
P	12/24/2006 23:06:19	AFEM/, DOT	0(00)461790	6/14/1978	Grace-R	BARBARA GUNES	JUNEAU III	dayere at	1			
P	12/14/2006 09:15:54	AHMED SHERVL	D/00106019	6/25/1942	Mercy	JUVCE & FRAZIER	MOELDERRY TOCE/YERGER	Accept to Reading MD	1			
P	12/15/2006 06:44:15	AHMED, SHERVS,	D00105018	0/23/1942	Hope 8	DORE J DABRE	MCELDERRY VERGER	Reportile by ID	E			
P	12/16/2006 12:56:43	APPMED, SHERVL	0.00106319	6/29/1942	Ace-ED	DIANNE DAVIS	ABISEMAN TODE	Researche by Name	10			
P	12/14/2008 09:14:00	ALLEN, ROSE E	\$100070296	1/18/1996	Mercyrb	BUZANNE A NANISTA	WODALLUM	Ridil Notes	I.			

Select one of the reconcile options to open the *Order Search* dialog box containing a list of available orders that matches the search criteria. The selected study information has a dark, blue background and is located above the *Order Search* box. The list of available orders is displayed below the column headers.

After verifying the correct order information, **<u>Select</u>** the desired order.

mul, Den 1148175		Patient Name	Pariave ID	008	Date: (inta i	Dyder # 1	Modulty (Site 3	×
Longer of		Alternal, Barothy	0408346179	6/14/1978	12/15/2006 88/2016	Rpen	40000740	105	Pésce-9	SELECT
]	*									
	•									
	×									
	*									
-	mp									
	mma, Out (144) (14	mal, Gut 114175 Ser Rend Lander Bald 420 X	First Data	Patient Harris Petient 10 : Here + Here + H	Patient Name Here +	Patient Name Patient Name Patient Name Patient No DOI: 1 DOI: 1 Date: 1 No Adversed, Districtivy 00001463179 4/14/7878 132755/3004: 80:00:00	Packet Name Packet Name Packet No DOB Date Status No Aferna, Darothy OHD146779 6/14/1278 12/15/2006 80:00.00 Boen	Patient Name Patient ND DOD Date dates dates depart 4 New # Adverset, Dirothy 01001463779 6/14/7979 12/25/2004.80:00.00 Root 4000040	Potent Name Potent Name Potent ND DOD Rate Status Optent I Modelity Note # 2 Adverse_Disordity DEBD1463779 6/14/1979 12/25/2004_88:00.00 Rate 4000740 800490 800	Point Name Point N

Note: If no orders appear, you may remove the search criteria to perform an open search or manually enter a *Name* or *Patient ID* or modify the filter settings for *Order Date, Order Number,* and *Site* to display a list of open orders based on your selection(s).

Reconciliation of an order to a study is based on the following fields:

- Patient Last Name
- □ Patient First Name
- Patient ID
- □ Date of service

If there is a mismatch of any of the *Study* information, the background color of the mismatched field will be highlighted. The left *Study* column represents patient information received from the device. The right *Order* column represents the order information. If one

or two fields do not match the order, those fields will display with a yellow background. In the below example, the *First Name* of the study does not match the *First Name* of the order. A mismatch between the values will prompt a left-facing arrow to appear in the center column. Select the arrow to update the incorrect *Study* information with the *Order* information. Each arrow must be selected to update the associated value. Once selected, the arrow will no longer be visible.

Last Name	Afemui		Afemui
First Name	Dot	G	Dorothy
Patient ID	DI00146179		DI00146179
Date	12/24/2006		12/25/2006

If the first three fields do not match the order, the background will be red alerting the user to multiple discrepancies. The below example has incorrect information in the *Last Name, First Name,* and *Patient ID* fields of the Study column. Each of the three fields has a red background.

G	Ramos Susan
G	Susan
G	DI00000146
	6/29/2020
	G

The left-facing arrow for each field must be selected to update the *Study* information. After each arrow has been selected, the *Study* values will update, the arrows will no longer be visible, and **Save & Promote** will be an active, selectable button as seen below.

	Study	Order #74
Last Name	Ramos	Ramos
First Name	Susan	Susan
Patient ID	DI00000146	DI00000146
Date	6/29/2020	6/29/2020
	CANCE	SAVE & PROMOT

Unlink Order: Select *Unlink Order* to unlink the order from a study. A brief message will appear in the lower, left corner of the screen stating, "*This Order Has Been Unlinked*." The study will be moved to the Preliminary status. The unlinked order may be reconciled to another study provided it has not been canceled or closed by the HIS/EMR system.

7 Results							0		9 =
Data Performed *	Patient Name	Patient ID 1	508 :	Skr 1	Beading Provider 1	Referring MD	Lication T		
12/18/2006 05/49/22	PASSMAN, NEERA, / K	DI00584874	12/4/1985	Mercy-5	PHYLLIS J COBLIAN	ABSHRE MICKEY	Autor to Stre	[
13/18/2006 05:02:17	AKINS, SUSAN 0	0100058425	2/27/1925	Grace 2	KIANA WREN	DIBBS DUGAL	Assign to Reading ND	i	é.
12/18/2006 06:20:29	WYNNE, MASSIE	DH00205309	10/8/1940	Central-8	BRENDA MARO	WELCH	Unlink Didar # 4000124	;	ġ.
12/18/2006 06:53:29	BECHAN, WILLARD	0x00742447	3/1/1923	Neroy-7	MARSINAH BROWN	DR MONIER	Eally Water	;	ŝ.
	Results Rate Performed * 12/18/2006 15:49:22 12/18/2006 06:02:17 12/18/2006 06:20:29 12/18/2006 06:23:28	Patentitie Patent Name 12/18/2006 15/49/22 PASSMAN, NEERAUK 12/18/2006 05/02.17 AKINS, SUSAN 0. 12/18/2006 06/20.29 WYNNE MAGDIE 12/18/2006 06/20.29 WYNNE MAGDIE	Patentin Patent Name Patent D 12/18/2006 15/49/22 PASSMAN, NEEHA,/ K D400684874 12/18/2006 05/02:17 AKINS, SUSAN, 0 D4002684825 12/18/2006 05:20:29 WYNNE, MADDE D4002684925 12/18/2006 05:20:29 WYNNE, MADDE D400268493 12/18/2006 05:20:29 WYNNE, MADDE D400268493	Paradox Patient Name Patient ID D00 II 12/18/2006 IS-49-22 PASSMANI, NEERAJK D400684874 12/4/1985 12/18/2006 IS-49-22 PASSMANI, NEERAJK D400684874 12/4/1985 12/18/2006 IS-60:17 AKINS, SUSAN 0 D400068425 2/27/1925 12/18/2006 IS-20:29 WYNNE, MAGGIE D400206309 10/8/1940 12/18/2006 IS-20:29 BECHAN, WELARD D400742447 2/1/1925	Results Patient Name 1 Patient ID 1 200 1 Bite 1 12/18/2006 IN549.22 PASSMAAN, AEE/NAJK DK00684874 12/4/1985 Mercy-5 12/18/2006 05:02:17 AKINS, SUSAN 0 DK00584874 12/2/19/200 Grace-2 12/18/2006 05:02:19 WYNNE, MAGDIE DK00206305 10/8/1940 Central-8 12/18/2006 06:02:29 WYNNE, MAGDIE DK00206305 10/8/1940 Central-8	Patient Patient Warne 1 Patient ID :: D00 :: Site :: Beading Provider :: 12/18/2006 /05:02:17 PASSMAN, NEERA,/K DK00684874 12/4:11955 Merroy-5 PHYLLIS J COBLIRM 12/18/2006 /05:02:17 AKINS, SUSAN D DK00058425 2/27/1925 Grade-2 KVANA WREN 12/18/2006 /05:02:29 MYRNE MADDIE DK0005695 10/8/1940 Central-8 BRENDA MARI 12/18/2006 /05:02:9 BECHAN, WELARD DK0005695 10/8/1940 Central-8 BRENDA MARI	Date Performed * Patient Name 1 Patient D 1 D00 1 Dite 1 Beading Provider 1 Deferring VD 1 12/18/2006 /05/9227 PASSMANN NEEHAJK D000684874 12/4/1985 MerceyS Perfolder ABSHRE MICKEY 12/18/2006 /05/9217 AKING SUBAN 0 D000584825 2/27/1925 Grader2 KIANA WREN D8850 000AL 12/18/2006 /05/9219 WYNNE MAGDIE D00006869 10/8/7840 Central-6 BRENDA MARO WELCH 12/18/2006 /05/929 BECHAN, WILLARD D000742447 2/1/1925 Mercey-7 MARSMARA BROWN DH MONER	Please Patient Nume I Patient ID II DOD II Site II Reading Previate II Referring ND II Lacation II 12/18/2006 /05/02.17 Akings Subakin / NEERA./K DidosBakt/4 12/4/11955 Merety-5 PHYLLIS J COBL/RM ABISHISE MICKEY Assign to State 12/18/2006 /05/02.17 AKINS, SUBAkin D DidosBakt/4 12/4/11955 Grades2 KIANA WREN DIBBS/DOGAL Assign to State/4 VID 12/18/2006 /05/02.29 MY/MME KIAGD/E Didoz06309 10/8/1540 Central-8 BRENDA MARU WELCH Usiner, Order # 4000124 Usiner, Order # 4000124 Eth Nore 12/18/2006 /06/20.29 BECHAN, WILLARD Did0206309 10/8/1540 Central-8 BRENDA MARU WELCH Usiner, Order # 4000124 Eth Nore	Ansatz Patient Name Patient Name Patient Name DOD II Dite Reading Pressile Referring ND: Lacation: 12/18/2006 Patient Name Patient Name DiddeB48[74 12/4/11985 Neeroy-5 PHYLLIS J COBLIRM ABSHRE MID/KEY Assign to Stell Assign to Reading ND III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Note: Demographic data <u>will not</u> revert to the original data contained in the study prior to reconciling the order. For example, if the original patient name, John Doe, was updated to John Smith by the reconciled order, once unlinked, the name will remain John Smith until the study is linked to another order.

Edit Note: Select *Edit Note* to add a note to the study. The *Note* is associated with the study in Cardio Server and may be viewed by users with *Note* permission. It is not included in the final, confirmed result posted in the patient's chart in the EMR.

C 164 Results												
States	Data Performed	Patient Name 1	Patient (\$ 1	100 1	100 2	Beating Provider	Referring MD (Limitary 2	1			
P	12/14/2009 07:18:31	SLATES, HAROLD L	0100658597	W6/1994	Pasie	CHRISTINE JONES	WELCH	BMHP-IQU	I.			
P	12/14/2006 07:23:00	JOHNSON, DEBORAH	DI00219998	12/28/1942	Ace	RIMBLE BILLIAHOR	NOEL.	Awarge to Site	1°			
P	12/14/2006 87:54:00	HOLLAR, MILLARD	DIODSSORFT	71/6/7956	Ace 5	CAROCHN MOSEY	JACQUE MOEL	A weight to Resulting AKD	I.			
P	12/14/2006 08:42:56	EDWARDS, BEUNDA	DI00112194	1/8/1921	Central-0	NAN J MOGANLESS	MCCARRON	U+0+0-0+0+0+4200124	1			
P	12/14/2008 09:14:00	ALLEN, MOSE E	D100070298	1/18/1996	Marcy-6	BUZARINE A NANISTA	MCGALLUM	Luit mate-	I			
P	12/14/2006 09/15/54	AHMED, SHERVIL	D100105019	6/29/1942	Mercy	JOYCE A FRAZIER	MCELDERRY TOOE/YERGER	84QU	ŧ			

Free-text in the *Notes* field. Select **Save**.

e 11	Realfie									0 a a =
Mater.	Data Performed :	Patent Name 1	Pallerd ID	DOB I	The I	Reading Provider		Referring MD -	Leader 1	
р	12/14/2006 07 18:31	BLATES, HAROLD L	DK0658593	8/6/1984	Pesse	CHRISTINE JONE	18	WELCH	BMHP KO	1
P	12/14/2006 08:42:66	EDWAR ^{ME DET MART}			T-RICH R		- 10	MODARRON	ETL-IP	ŧ
P	12/14/2006 09:14:00	ALLEN, Notes					ETA.	MODALLIAM	59-400	1
(P)	12/14/2008 09:35:54	AHMED	a to ordering MD.					MGELDERRY TOCE/YERGEN	BICU	1
P	12/14/2008 10:03:35	CAUNTON						VALENTIND	FE1	1
(P)	12/14/2008-11-09-28	115.1.2 III.						WELCH	#W	1
P	12/14/2008 11:10:43	materies							E71-0P	1
(P)	12/14/2006 11:35:46	RCOTT						BURNELL	50N-4606	t
P	12/14/2008 12:30:08	JOHNO			3	ANCEL BAVE		MENARD QUILLORY	BON-HOU	1
P	12/14/2006 12:21:09	O'Malley, PM	100000000000	07.001964	Unice s	BALLINIT F. 1000/15	-	67	-sicu	1

The <u>Notes</u> icon will be displayed with the study information indicating a note has been added. Select the <u>Notes</u> icon to view or edit the message.

C 10	C 164 Results										
Status	Data Performed *	Patient Name 1	Patient D (005 1	58e.1	Reading Provider 1	Referring MD 1	Location :			
P	12/14/2006 07:18:01	SLATES, HAROLD L	000658897	9/6/3934	Perce	CHRISTINE JONES	WELCH	IMHPHOU		I	
P	12/14/2006 07:29:00	JOHNSON, DEBORAH	0/00213398	12/29/1942	Ace	KIMBLE BILLIANOR	NOEL	COUHP		T	

Batch Assignment (Option): Batch assignment is an optional workflow that allows a group of studies to be assigned to a *Site* or a *Reading MD*. Enabling this option is determined by the local system administrator. When enabled, a checkbox will be available for each study in the first column. Select the checkbox associated with the study to include that study in the batch assignment. Each study may be selected individually or the entire list may be selected using the box in the top header. The top-header box toggles between selecting and deselecting all studies in the list. Once a box is selected, the right panel will open to display the number of studies selected and the options of <u>Assign to Site</u> or <u>Assign to Reading MD</u>.

e	13 Results									- a =
	Orstan	Data Performed ·	Palard North 2	Pallert (D 1	500 0	Reading Provider 1.	Location 1			5 Studies Selected
8	U	3/12/2014 12:08	CASTERLINE, GRE.,	0100000076	MMC		Caroliology		1	ASSIGN TO BITE
8	U	3/20/2014 06:30	FRANKLIN, RICHA.	DI00000047	MMC		Carolology		1	ASSIGN TO READINE MD
8	(U)	10/30/2014 (05:27	JOHNS, COURY	DI001515	MMC		Cardiology	(P)	Ŧ	
ø	U)	3/19/2020 09:41	LATSHO, PEGGY	0100000128	Mercy					
8	U	3/5/2020 18:12	FRANKLIN, RICHA.	0100000047	MMC		Cardiology		1	
10	(P)	3/23/2020 05:28	FRANKLIN, RICHA.	Dr00000047	Peace	B Smith	Carthology		1	
	υ	3/23/2020 06:14	COX, KATHERINE	DI00000011	MMC		Cardiology		1	
-12	P	3/23/2020 11:05	WHITE DOROTHY	DK00000156	Mercy	8-Smith	ICU.	10	1	

Note: A maximum of 100 studies may be assigned. Selecting over 100 studies will result in an error message in the lower, left corner of the screen stating, "Too many studies

were selected for assignment. The maximum number of studies that can be assigned is 100."

<u>Assign to Site</u> (Batch): The *Site* dialog box will display with a list of *Sites* available to the user. Select the desired *Site* or begin typing the *Site* name to narrow the list of options. Select <u>Assign</u>. The batch of selected studies will be updated with the new *Site* assignment.

e	13 Results									a a e
	(status	Data Performed	Patient Parent 2	Pallert (D 1	596 5	Reading Provider 1	Location 1			5 Studies Selected
	U	3/12/2014 12:08	CASTERLINE, GRE.,	0100000079	MMC		Caroliology		1	ASSIGN TO BITE
8	U	3/20/2014 06:30	PRANKLIN, RICHA.	0100800047	144		Carolology		1	ASSIGN TO HEADINE MD
	(U)	10/30/2014 (05:27	JOHNS, COURY	DI001515	Gate		Cardiology	(P)	Ŧ	
•	U	3/19/2020 09:41	LATSHO, PEGGY	0100000128	Mercy	1				
8	U	3/5/2020 18:12	FRANKLIN, RICHA	0100000047	MMC Peace	ſ		1	1	2
10	(P)	3/23/2020 05:28	FRANKLIN, RICHA.	0100000047	UMC	I Smith	Grace	17	1	
-	υ	3/23/2020 06:14	COX, KATHERINE	0100000011	MMC		GANCEL	Assion	I	
-12	P	3/23/2020 11.05	WHITE, DOROTHY	0100000156	Mercy	6-Smith		100	E	

<u>Assign to Reading MD</u> (Batch): The *Reading MD* dialog box will display with a list of names. Select the desired name or begin typing the name to narrow the list of options. Select <u>Assign</u>. The batch of selected studies will be updated with the new *Reading MD* assignment.

e v	13 Repute									a a
	(tata)	Data Performent ·	Patient Pearse 2	Pallert (D =	2010	Reading Provider 1.	Location 1			5 Studies Selected
1	U	3/12/2014 12:08	CASTERLINE, GRE.,	0100000075		-	Caroliclogy		1	ASSIGN TO BITS
	U	3/20/2014 06:30	FRANKLIN, RICHA.	0100000047	1.		Carolology		1	ASSIGN TO READING MD
	(U)	10/30/2014 05:27	JOHNS, COURY	DI001515	J Smith		Cardiology	-	Ŧ	
	U/	3/18/2020 09:41	LATSKO, PEGGY	0100000128	Jerrifler Jerus		1		1 *	
	U	3/5/2020 18:12	FRANKLIN, RICHA.	0100000047			Reating (rd)	120	1	
	(P)	3/23/2020 05:28	FRANKLIN, RICHA.	0/00000047	Jeff Smeret	8 Smith	Jone Jones	STREET, STREET	1	
	υ	3/23/2020 06:14	COX, KATHERINE	01000000011	anno anno anno anno anno anno anno anno			Part of the local division of the local divi	11	
	P	3/23/2020 11:05	WHITE, DOROTHY	0400000156	Webty	5 Smith	CU	10	E	

Editing Study Information

Actions may be taken on the study from the study detail page. Available actions are based on the user's role and the state of the study. Hover over each icon to display the icon's tooltip.

Visit, Interpretation, Favorites, and *Previous* group information on the patient and the study by individual panels. Expand or close each panel by selecting the arrow associated with the panel label. (See screenshots below.) By default, panels will be displayed or

hidden when the study is opened based on user-role. **Note**: The *Previous* panel will only be displayed when a previous ECG is displayed for comparison.

Open	Panels
------	--------

Open Panels	Closed Panels
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Britan (Hyder) Low writigie (DRS, Consister putminiary disease, percandial effusion) as normal variant Possible Cancel writing on Administratic CDS	
Faculture Joint 21 AV Mack	
Einus antydynia Normpecifis T some changes Afna ffattliator with cantaliar response Athai fattliator with repol vermoslar response •	

Study Page Icons

Back Arrow: Select to return to the Inbox. This icon is only displayed when the study is in view mode.



Cancel: Select to return to the Inbox and optionally discard any demographic edits or interpretation edits. If modifications have been made to the demographic data or interpretation data, a dialog box will appear with a warning, "Discard unsaved changes?" Selecting "Cancel" will maintain edits, keep the study open, and allow the user to continue editing. Selecting "Discard" will delete any edits made to the demographic fields or

interpretation field and return to the Inbox. **Cancel** is only displayed when the study is in edit mode.



Delete: Select to permanently delete the study from the server. A warning dialog will appear, "*Are you certain you wish to delete this report? The report will not be recoverable.*" Select "*Cancel*" to cancel the action. Select "*Delete*" to permanently delete the study.

÷		8	👕 Pr	elimin	ary	P	ē	1	€	=
Last Name SLATES	First Nan HAROLD		ID 58597	Age 72 yr:	s	DOB 9/6/1934				
Date-Time P 12/14/2006	erformed 07:18:31	Gender Male	Rac Cauca	e sian	DX	Req Pro WELC	vider CH			

<u>**Trash**</u>: Select *Trash* to move the study to *Trash* status and remove it from the clinical workflow. If the study is linked to an order, it must be unlinked prior to moving to *Trash* status.

<		8	P r	eliminar	у Р	•	P	€	≡
Last Name SLATES	First Nam HAROLD	ne II L DIOue	Frash	Age 72 yrs	DOB 9/6/193	4			
Date-Time P 12/14/2006	erformed 07:18:31	Gender Male	Rac Caucas	e D) sian	(Req	Provider ELCH			

Flag: Select Flag to add the icon to the study in the Inbox and on the study detail page.

÷		8	🗍 Pr	elimir	nary		ē	1	€	
Last Name SLATES	First Nan HAROLD	ne Pa L DIOOG	it ID 558597	Age 72 yr	's	Flag				
Date-Time P 12/14/2006	erformed 07:18:31	Gender Male	Rac Cauca	e sian	DX	Req Pro WELC	ovider CH			

<u>Print</u>: Select *Print* to open a dialog box to print the study PDF. The print dialog will vary based on the printer settings and the browser used at login. **Note**: Set printer Scale to 100% to maintain standard 25mm/second, ECG paper speed.

÷		8	T Pr	elimin	ary	P	•	1	Ð	
Last Name SLATES	First Nam HAROLD	ne Pa L DIOOG	nt ID 558597	Age 72 yrs		DOB 9/6/1934	Print			
Date-Time P 12/14/2006	erformed 07:18:31	Gender Male	Rac Cauca	sian	DX	Req Pr WE	ovider LCH			

Modify: Select *Modify* to open the study for editing. This icon will only be visible when the study is in view mode.

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Last Name SLATES	First Nan HAROLD	ne Pa L DIOO	at ID 558597	Age 72 yr	s	DOB 9/6/1934	Modi	fy
Date-Time P 12/14/2006	erformed 07:18:31	Gender Male	Rac Cauca	ce sian	DX	Req Prov WELC	vider H	

Logout: Select to log out of the application.

÷		8	Pr	elimin	ary		ð /	€
Last Name SLATES	First Nam HAROLD	ne Pa L Diooe	nt ID 558597	Age 72 yrs		DOB 9/6/1934		Logout
Date-Time P 12/14/2006	erformed 07:18:31	Gender Male	Rac Cauca	sian	DX	Req Prov WELC	rider H	

Menu: Select to open a panel containing additional information and actions.

÷		×	📋 Pr	elimina	ry	2	ē	1	Ð
Last Name SLATES	First Nam HAROLD	ne Pa L DI006	it ID 558597	Age 72 yrs	9/	DOB /6/1934			Menu
Date-Time Performed 12/14/2006 07:18:31		Gender Male	Rac Cauca	e D sian	X	Req Pro WELC	ovider CH		

- User Manual: Loads the E3 desktop User Manual with options to view, print, and download.
- About Cardio Server: Contains the CE mark and UDI barcode information.
- Classic UI: Allows a user to switch to the Cardio Server Classic mode. Cardio Server Classic has an <u>E3 UI</u> option that allows the user to return to the E3 desktop mode.
- Logout: Logs the user out of the E3 desktop application.
- CS version: Cardio Server software version number.
- Server: The server name.
- *Browser:* The current browser in use.
- *Platform:* The current platform in use.



UnTrash: Select UnTrash to move the study from Trash status to Preliminary status.

×	🛿 📅 Trash 🛛 🏲 🖶 🕀 🚍
SLATES	First Name HAROLD I UnTrash 0100658597
	Date-Time Performed
9/6/1934	12/14/2006 07:18:31
Caucasian	× ~

<u>Status</u>: The status label is displayed in the border above the demographic information on the study detail page. The following *Status* options are based on user's role and may not be available to all users.

- Preliminary study has not been linked to an order
- Unconfirmed study has been linked to an order and is ready to be interpreted
- *Confirmed* study has been interpreted and finalized by the provider
- *Read* a preliminary read has been done
- Stored legacy data has been migrated to Cardio Server or studies have been stored without an interpretation
- *Trash* study has been removed from the clinical workflow for evaluation or future deletion **Note**: the study below is in *Trash* status

×	😣 🖬 Trash 📄 🏲 🖶 🔁 🚍
SLATES	First Name Pat ID Age HAROLD L DI00658597 72
	Date-Time Performed
DOB 9/6/1934	12/14/2006 07:18:31 Gender × v
Caucasian	× ~

<u>UnFlag</u>: Select the *UnFlag* option to remove the flag icon.

×	🛛 🛱 Trash 🛛 🄁 🖶 🕀 🖃	
Last Name	HAROLD L Pat ID UnFlag yrs	
	Date-Time Performed	
9/6/1934	12/14/2006 07:18:31 Gender × v	
Caucasian	× ~	

Save: Select Save to update and save edits made to the study.

×	8	🚹 Trash	P 🖶	9 ∋ ≡
SLATES	First Name –	Pat ID DI00658597	72 Sa	ve
2.02	Date-Tim	e Performed		
9/6/1934	12/14/2006	07:18:31	Male × ~	
Caucasian	× ~	Req P WELC	rovider ————————————————————————————————————	× ~

<u>Correct</u>: This action returns a *Confirmed* study to the *Unconfirmed* status to allow editing of the interpretation. A corrected study must be re-confirmed in order to post the new result to the patient's chart in the EMR.

÷		Confi	rmed			🕑 I	•	€ ≣
Last Name SMITH	First Nam RONNIE	e Pa DI007	it ID 741454	Ag 70 y	ie /rs	Correct		
Date-Time P 8/18/1994 2	erformed 23:04:01	ed Gender Rad I Male Cauca		e sian	DX	Req Pro Dr. ERIN DE	ovider E AGUERO	

<u>Re-Confirm</u>: This action is only available for a corrected study. <u>**Re-Confirm**</u> the study in order to post the new result to the patient's chart in the EMR. **Note:** An order must be linked to the study to allow the study to be reconfirmed. If the original order has expired or is no longer available, a new order will be required prior to re-confirming.

Last Name Firs SMITH RO	t Name 🛛 P				
	ONNIE DIOC	741454	Age 70 yrs	DOB 10/15/1923	
Date-Time Perform 8/18/1994 23:04: Req Provider Dr. ERIN DEAGUER	med Gender 01 Male 0 × ×	Race Caucasi	DX an		
Visit Interpretation SINUS BRADYCARD	014				
COMPARED TO THE REVERSED. NO SIGNIFICANT C NORMAL ECG	E PREVIOUS TR/	ACING OF (08-11-94, I I SINUS BI	LEADS V2 Re RADYCARDIA N	

EDITING STUDY INFORMATION

Demographic fields may be edited by specific usertypes with editing privileges. Tab through each field using the Tab key on the keyboard. Free-text in any open field that does not contain a drop-down arrow. Select a field with a drop-down arrow to display a list of options from which to choose. Demographic fields may be updated with order information when reconciled to an order and promoted to *Unconfirmed* status.

Note: If a user name is not available in the drop-down list for *Tech*, *Reading Provider*, *Req Provider*, or *Fellow*, verify the user has access to the study *Site*. User names will <u>only</u> appear in the list when the user has been granted access to the study *Site*.

Demograph	ic Data
COX	First Name Pat ID Age KATHERINE Di00000011 46 yrs
	Date-Time Performed
12/18/1973	3/23/2020 06:14:00 Female X
Race	CDX Req Provider
✓ Visit	
Account #	69 in Weight Ib Zocor CPT
ICD	✓ Site ✓
Location —	V Copt Room
Reading Provider B Smith	× V ED Physician

Interpretation Edit

There are five options to add or change text in the Interpretation box.

- 1. <u>Free text</u> Type or delete comments in the text area of the *Interpretation* box. Double-click on a word to highlight the single word or triple-click on a word to highlight the entire sentence. Select the Delete key on the keyboard to delete the highlighted area.
- Interpretation Assistant Type words or a portion of each word in the text area of the Interpretation box to display a list of matching statements from the Statement Library and user's Favorites list.
- 3. <u>Macros</u> Type macros *(in ALL CAPs followed by the space bar)* in the text area of the *Interpretation* box to populate the field with the associated statement.
- 4. <u>Favorites</u> Customized interpretive statements that are specific to the user. These statements are created in Cardio Server Classic UI.
- 5. <u>Voice recognition software</u> Use a third-party, voice-recognition program to enter text into the *Interpretation* box. This functionality is not supported by Epiphany; contact the manufacturer for training or technical support.

Note: Options 2 and 3 must be enabled in the user's account under the <u>User Info</u> in Cardio Server Classic.

Interpretation Assistant

Interpretation Assistant is a statement search tool designed to assist the user in quickly finding interpretive statements. The predictive algorithm stores the user's choice of keywords and statement combinations. When enabled, this tool functions with *Macro* codes.

- 1. Select a study from the *Inbox*.
- 2. In the *Interpretation* box, type a word or a few letters representing the words

contained in the desired statement.

3. Statements matching the search criteria will be listed from the Statement Library and the user's Favorites list.



4. Insert statement by selecting or use the keyboard "Ctrl + Enter" to insert the highlighted statement.

5. After making modifications, select <u>Save</u>, <u>Confirm</u>, <u>Read</u> to update and save edits. This also saves the keyword/statement combination to the user's profile.

Note: Favorite statements may be added and edited in Cardio Server Classic.

The ECG *Interpretation* box may contain up to 13 lines of interpretation text. When the cursor is positioned below line 13, the *Interpretation* box will display a red outline and the message "**Text exceeds 13-line limit**" will display in red text at the bottom of the box. Lines in excess of 13 must be removed prior to saving or confirming the ECG.



Confirm/Confirm & Next

Confirm the edited study by selecting the <u>Check</u> icon to apply the Sign User's electronic signature with a date and time stamp. This finalizes the study and moves it to *Confirmed* status. When configured, the confirmed result is posted in the EMR.

Confirm & Next, when enabled, will confirm the ECG and automatically load the next study in the list to be read.

Note: Confirm & Next workflow may be enabled under <u>User Info</u> in Cardio Server Classic.



Re-Confirm action is only available for a corrected study. <u>**Re-Confirm**</u> the corrected study in order to post the new result to the patient's chart in the EMR. **Note:** An order must be linked to the study to allow the study to be reconfirmed. If the original order has expired or is no longer available, a new order will be required prior to re-confirming.

×		Unconfirmed	i	P 6	∎ 5 ≡
Last Name SMITH	First Name RONNIE	Pat ID DI00741454	Age 70 yrs	DOB 10/15/1923	
Date-Time Pe 8/18/1994 2 Req Provider Dr. ERIN DEAC	erformed G 3:04:01 BUERO	Gender Rac Male Cauca X V	e DX sian		
Visit Interpretati SINUS BRADY COMPARED TO REVERSED.	on CARDIA D THE PREVIO	US TRACING OF	08-11-94, H SINUS F		-Confirm
NO SIGNIFICA NORMAL ECG	NT CHANGE V	VAS FOUND WIT	H SINUS E	BRADYCARDIA N	

Read or "**Mark as Read**" allows a preliminary read to be performed by selecting the <u>**R**</u> icon to apply the user's electronic signature with a date and time stamp. This moves the study to the *Read* status.

Read & Next, when enabled, will mark the ECG "*Read*" and automatically load the next study in the list to be read.

Note: Read & Next workflow may be enabled under User Info in Cardio Server Classic.



Skip allows the user to skip a study in the list of studies to be read. Selecting the *Skip* icon below removes the study from the user's list and loads the next ECG in the Inbox list.



The total number of skipped studies will be displayed in the header at the top of the Inbox screen. Selecting the leftward arrow beside the number of skipped studies will restore the studies to the Inbox. The skipped studies will also be restored to the Inbox the next time the user logs in. See screenshot below.

Inbox Settings		C 44	6 Results 🖍 3 Skippe	ed	
_{Status} Unconfirmed	*	Status	Date Performed 🔺	Patient Name ≑	Patient ID 👙
^{Site} Ace, Mercy, Peace	•	U	12/17/2006 05:22	TUCKER, LORRAINE	DI00408482
Search By Patient Name	*	U	12/17/2006 05:44	AHMED, SHERYL	DI00105019
Туре	*	U	12/17/2006 06:37	ELLIS, KAREN	DI00051816

Previous ECG Comparison

The most recent, *Previous* ECG automatically displays just below the current ECG. Additional previous studies will be listed by date and time tabs. Select date and time tabs to display previous ECGs in the lower window.

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To hide the previous study and view only the current study, select the minus sign in the top, left of the previous study.



To display the previous study, select the plus sign.

Note: Display default for the previous ECG may be configured under <u>User Info</u> in Classic Cardio Server.

www.epiphanyhealthdata.com

Cardio Server 6.0 – E3 Desktop User Manual



Calipers

<u>Calipers</u> perform three measurement functions—Rhythm, Interval, and Amplitude.

- 1. Rhythm calipers allow measurement of the RR intervals.
- 2. Interval calipers allow measurement of any waveform in the cycle, e.g., PR, QT, QTc-RR, and QRSd. (The correction formula default for QTc is *Bazett*, with options of *Fridericia*, *Linear*, and *Exponential*.)
- 3. Amplitude calipers allow measurement of waveform voltage and ST segment elevation or depression.

The Caliper setting may be found in the toolbar across the top of both the current and previous ECG studies.

Rate 51	PR 104	QRSd 116	QT	QTc	0	QRS 69	65	1	REVERT	CALIPER	GAIN	FORMAT	FILTER	FULL
			402		Ľ		<u> </u>	l						

Select <u>**Caliper**</u> to open the caliper toolbar, display measurements, and display *R-R* calipers.

Note: Measurements are calculated from inside the caliper legs in the gray shaded area.



The calipers default to the *R*-*R* measurement obtained by the cardiograph algorithm and can be adjusted by the user. To adjust the calipers, left-click in the gray shaded area and drag left, right, up, or down. To adjust one caliper leg, left-click on the leg and drag left or right. Select **Full** on the ECG toolbar to expand the tracing to full screen.



Double-click on any lead to zoom in or zoom out on the lead. Alternatively, after clicking on the tracing, use the keyboard shortcut by pressing "Z" to perform the same zoom functions on Lead I. Up and down arrow keys will display a different lead. While in lead

zoom, press "+" to increase magnification, and "-" to reduce magnification. Click on the blue highlighted bar at the bottom of the screen and drag left or right to scroll to a different area of the lead. Arrow keys will also move the tracing left or right.



Select <u>Update</u> on the caliper toolbar to update the original measurement to the manual measurement. To save the updated measurements, select <u>Confirm</u>, <u>Read</u>, or <u>Save</u>.

Rem 01104 0110 0110 0110	UTC # UTC Seally CALIPER SAIN FORMAT FILTER FULL Seally UTCHINGED -
R-R: 984.0ms / 61.0bpm	
m	

Select a different interval for measurement by clicking the *R*-*R* drop-down arrow on the caliper toolbar and choose from the list.



Select *QTc-RR* to calculate the R-R interval used for the QTc calculation. When selected, the interval will be used for the QTc calculation only and will not update the overall heart rate value of the 10-second ECG. After obtaining this measurement, select *QT* from the drop-down list and proceed with the measurement.



The default correction formula is *Bazett* and can be modified by selecting from the *QTc-b* drop-down menu. The *QTc* tab is available only when *QT* or *QTc-RR* is selected.

59 104 104 452 416 0 106 0 107 CALIPER CAIN FO	DRMAT FILTER FULL Otherwise Normal EO3
QT: 405.9ms / QTC: 374.2ms QT: 6-k: 1276m / 12.6tpm / 14.0tpm	Bazett UPDATE
man property	Pridericia
	Linuar I I
· · · · · · · · · · · · · · · · · · ·	

ECG TOOLBAR FUNCTIONS

The ECG toolbar provides tools to measure the ECG, toggle pacing artifact off/on, modify gain, modify format, modify filters, and display full-screen ECG.

Select <u>Caliper</u> to open the caliper tool. (Detailed instructions provided in Using Calipers on ECGs.)



Select Pacer to toggle pacing artifact off and on. The Pacer option will only be present when pacing artifact has been transmitted by the device. The location of the pacing artifact is determined by the signal transmitted from the cardiograph algorithm.

Note: Pacing artifact display may be configured in one of three options: (1) tick marks at the top and bottom of the canvas; (2) green spikes superimposed on the ECG; or (3) disabled, with no indication of pacing. This is a global setting and determined by the local system administrator.



(1) Top/bottom of canvas



(2) Superimposed on tracing



Select Gain to access options for increasing or decreasing the ECG gain.



After making the selection, select <u>Update</u> to update the tracing. The calibration signals and mm/mV value will reflect the new gain settings. To restore the previously saved settings, select <u>Revert</u> prior to **saving.** The following actions will save the new settings: <u>Confirm</u>; <u>Read</u>; or <u>Save</u>.

Note: After selecting one of the above actions, <u>**Revert**</u> will no longer restore the previously saved settings.





Format allows the user to choose the ECG format and rhythm-lead options.

Make lead selection and select <u>Update</u> to update the tracing. To restore the previously saved settings, select <u>Revert</u> prior to **saving.** The following actions will save the new settings: <u>Confirm; Read;</u> or <u>Save</u>.

Note: After selecting one of the above actions, <u>**Revert**</u> will no longer restore the previously saved settings.

<u>Filter</u> allows a user to modify settings for *High Pass, Low Pass, Notch, Artifact*, and *Wander* filters.



Make filter selections and select <u>Update</u> to update the tracing. The filter settings will be displayed in the lower, right corner of the ECG. To restore the previously saved settings,

select **<u>Revert</u>** prior to **saving.** The following actions will save the new settings: <u>**Confirm**</u>; <u>**Mark as Read**</u>; or <u>**Save**</u>.

Note: After selecting one of the above actions, <u>**Revert**</u> will no longer restore the previously saved settings.



Select **Full** on the ECG toolbar to expand the tracing to full screen. Alternatively, after clicking on the tracing, use the keyboard shortcut by selecting "F" to expand to full screen or exit full screen.



Double-click on any lead to zoom in or zoom out on the lead. Alternatively, after clicking on the tracing, use the keyboard shortcut by pressing "Z" to perform the same zoom functions on Lead I. Up and down arrow keys will display a different lead. While in lead zoom, press "+" to increase magnification, and "-" to reduce magnification. Click on the blue highlighted bar at the bottom of the screen and drag left or right to scroll to a different area of the lead. Arrow keys will also move the tracing left or right.



<u>**Revert</u>** allows the user to restore the last, saved settings. <u>**Revert**</u> is an active option after editing <u>**Gain**</u>, <u>**Format**</u>, or <u>**Filter**</u> settings. <u>**Revert**</u> will no longer restore the previously saved settings after selecting <u>**Confirm**</u>; <u>**Mark as Read**</u>; or <u>**Save**</u>.</u>

Active:

REVERT CALIPER GAIN FORMAT FILTER FULL									
Inactive:									
REVERT	CALIPER GAIN FORMAT FILTER FULL								

CRITICAL STATEMENT NOTIFICATION (CSN) (Option)

The <u>CSN</u> designation indicates a specific statement has been detected in an ECG. It places the designated ECG at the top of the <u>Inbox</u> and inserts a statement in the study interpretation. Finally, CSN triggers an automatic *Messenger* notification via email or text, e.g., "CSN study to be read."

Note: CSN is <u>**not**</u> an alarm; instead, it highlights ECGs containing specific statements from the cardiograph algorithm and notifies users of the finding.

<u>Critical Statement Notification</u> enables Cardio Server to recognize key ECG statements transmitted from the cardiograph. Qualifying statements must be identified by the customer. Statements meeting pre-configured, system criteria will trigger the <u>CSN</u> workflow. There are four categories of conditions that can be recognized when associated with qualifying statements:

- Acute MI
- Very High Heart Rates
- Acute Ischemia
- Complete Block

Criteria for notification are based on the <u>exact wording</u> of the statement generated by the cardiograph algorithm. When the criteria are met, the following will occur:

- ECG is moved to the top of the Inbox List.
- ECG demographic background is red with an "!" icon.
- The statement that correlates with the trigger condition is inserted above the ECG interpretation, e.g., ***ACUTE MI***.

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- When configured, a notification email or SMS text will be delivered based on a preconfigured *Messenger* rule.
- Note: SMS-text capability must be supported by your carrier to use this option.

CSN classification is determined when the ECG is initially received in Cardio Server.

INTELLIGENT SERIAL COMPARISON (Option)

Epiphany's Intelligent Serial Comparison provides additional information to the reading physician on changes between the current ECG and the previous ECG, as defined by the established criteria of the institution. The most recent ECG is used for comparison if it matches the patient ID and patient name.

Features:

- Utilizes physician's *Confirmed* ECG interpretive statements from the previous ECG to improve accuracy.
- Physicians can use any data-entry method they prefer including dictation for later transcription, free text, drop-down menus, custom favorites, macros, and voice recognition.
- If the previous ECG has not been *Confirmed*, the interpretation from the cardiograph will be used for comparison.
- Utilizes the existing cardiograph algorithm and interpretive statements for the current ECG.
- Is customizable; able to learn physician's statements to improve performance; able to learn common, repetitive typographical errors too.
- Can learn unrecognized, new interpretive statements.
- Works with all cardiograph manufacturers and all migrated legacy data. Legacy sampling rates are supported.

Serial Comparison is only performed when the following ECG criteria are met:

If no previous ECG exists, the Serial Comparison statement will read, "No previous tracing available for comparison."

- The ECGS used for comparison must have interpretive statements present in the interpretive field.
- If the previous ECG has been *Confirmed* with a physician's interpretation, the physician's interpretation will be utilized for serial comparison reporting.
- Should an ECG not reconcile or match an existing patient in Cardio Server, the statement "No previous tracing available for comparison" is generated.
- All standard 12-lead ECGs are available to be utilized for serial comparison. This includes migrated, legacy data and new, proprietary data from multiple vendors' cardiographs.

Logic: There are four ways for phrases to be reported in Intelligent Serial Comparison.

Standard: Used for the most phrases, including: Ventricular premature complex(es), Short P-R interval, Right bundle-branch block, etc.

- When a phrase occurs in both the previous tracing and the current tracing, it is <u>not</u> <u>noted</u> as "still present."
- When a phrase occurs in the previous tracing and not in the current tracing, it is noted as "no longer present."

- When a phrase occurs in the current tracing and not in the previous tracing, it is noted as "now present."
- When a phrase is conditional ("possible," "consider," etc.) in only one tracing it is not noted.

Previous Only: Used to identify statements no longer present such as rhythm statements where the current tracing has a new rhythm.

- When a phrase occurs in both the previous tracing and the current tracing, it is <u>not</u> <u>noted</u>.
- When a phrase occurs in the previous tracing and not in the current tracing, it is noted as "no longer present."
- When a phrase occurs in the current tracing and not in the previous tracing, it is not noted.
- When a phrase is conditional ("possible," "consider," etc.) in only one tracing it is not noted.

New Only: Used to identify new statements of less significant clinical value; now only used for the phrases "Low voltage QRS" and "RSR' in V1 or V2," these statements are expected to expand with database growth.

- When a phrase occurs in both the previous tracing and the current tracing, it is <u>not</u> <u>noted</u>.
- When a phrase occurs in the previous tracing and not in the current tracing, it is not noted.
- When a phrase occurs in the current tracing and not in the previous tracing, it is noted as "now present".
- When a phrase is conditional (possible, consider, etc.) in only one tracing it is <u>not</u> <u>noted</u>.

Always: Used for Myocardial infarction, ST-T wave changes, and T wave changes, expected to expand with database growth.

- All conditional phrases, whether in either the previous tracing or the current tracing, <u>are noted</u>.
- When a phrase occurs in the previous tracing and not in the current tracing, it is noted as "no longer present."
- When a phrase occurs in the current tracing and not in the previous tracing, it is noted as "now present."
- When a phrase is in both tracings, it is noted as "still present."

Other rules that impact reporting:

- If <u>all</u> phrases in Intelligent Serial Comparison qualify as "still present," "No significant changes since previous tracing (with the date and time stamp)" <u>will be</u> <u>noted</u>.
- Phrases including "and," "or," "with," etc. are broken into two separate phrases for analysis.

- Some phrases may have little significance and are ignored; currently only "early transition."
- Typos or new phrases that do not match existing categories in the database are neither noted nor reported. Typos and new phrases are, on the other hand, logged into the database for future lexicon harvests to improve performance.
- All of the various myocardial infarct statements are reported as "Myocardial infarct finding."
- All ST (T) wave statements are reported as "ST (T-wave) deviation."
- T-wave statement variations are reported as "T-wave abnormality."
- Left atrial abnormality, right atrial abnormality, bi-atrial abnormality, and atrial conduction abnormalities are reported as "atrial abnormality."

Recommendations to Physicians:

The intelligence in Epiphany's Intelligent Serial Comparison comes from the physician's interpretation of the previous ECG. In order to achieve the best serial comparison results, it is generally better to create bullet statements vs. prose paragraphs. The following simple interpretation techniques are suggested.

- Utilize a separate line for each interpretive statement.
- Avoid combining two statements.
- Avoid lengthy sentences.
- Avoid unusual punctuation such as quotation marks for emphasis.
- Only utilize the more common/obvious abbreviations such as LVH, RBBB, MI, LAFB, etc.
- Leave a space between abbreviations, slash marks, hyphens, etc. and the next word in your phrase to avoid being detected as a run-on sentence.

Legal Notices

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