

| Subject ECG MUSE Procedure | Attachments |
|--|--|
| Key words MUSE, ECG computer, MAC Computer, Retrieve, Merge, Edit, EKG | Number GHP-PC-CLINIC LAB- PROCEDURES-EKG Muse v. 07-2008 |
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| Review Responsibility Laboratory Administration | Approval Date |
| APPROVAL(S) Laboratory Business Manager | |

PURPOSE/PRINCIPLE This procedure provides instruction for transmitting ECG results to the MUSE system.

Once the ECG is performed on the ECG instrument, it is transmitted to the MUSE where it is stored. From MUSE, we can retrieve and print ECG's, enter provider changes to the instrument interpretation, merge manually entered patient data with an interfaced order, and reconcile any discrepancies in chart numbers, account numbers and patient names.

Definitions

| MUSE Computer sys | tem where confirmed and unconfirmed ECG's are stored |
|---------------------|--|
| Edit Process of m | aking changes to the ECG instrument interpretation |
| Unconfirmed ECG A | An ECG that has been transmitted from the ECG cart to MUSE but has not had the |
| E | ECG machine interpretation overread by the provider. Printout says it is |
| U | inconfirmed. |
| Confirmed ECG E | CG that has been overread by the provider. The provider has made changes |
| te | o the interpretation, if necessary, and the changes have been entered into |
| Μ | IUSE. This is the finalized ECG. Printout says it is confirmed. |
| Retrieve Process of | pulling up a copy of an ECG that is stored in MUSE. |
| Merge Process of | merging manually entered patient information with an interfaced order. |

Procedure:

This procedure will be divided into 3 main screens:

| · · · · · · · · · · · · · · · · · · · | | | | |
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| 🌖 Network Recording Playe | r - Muse 7 Editing | | | |
|--|--|--|-----------------------------|-------------|
| <u>File View I</u> nfo <u>H</u> elp | | | | |
| Meeting Number: 803 416 004 | Date: Wednesday, December 08, 2010 | Time: 1:48 PM, Local Time (GMT -06:00) | | 💻 😐 🕒 |
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| 🐮 Start 🛛 🏀 🕑 🧷 WebEx Client Entry - | Wi MUSE@ System | | « 🕒 1:48 PM | |
| |) | | | × |
| 00:00:27 / 00:30:22 | | | | |
| 2 Start 🕑 🏉 🖸 | iG's 🛛 🖳 -EKG MUSE v. 0 | 1 | Network Recording Pl | 🔔 堤 3:15 PM |

A. ECG MUSE Sign On:

- 1. On the computer desktop, double click on the MUSE Icon
- 2. The MUSE Authorization window appears.
- 3. Enter the following information:

User ID: Each person with Muse access has a unique User ID.

Password: Your password is a complex password consisting of 8 characters. There should be one capital letter, lower case letters and a number. It expires in 90 days. Site Number: 1

User ID and Password: User ID and Password are obtained from Lab Computer Support. To obtain a User ID and Password, an authorized requester should contact Lab Computer Support. Lab Technical Consultants are authorized requesters.

HP Clinics and, as of July 8th, 2007, Regions Hospital ECG's are stored on site 1. If a Regions Hospital ECG is needed that was performed before July 8th, 2007, contact the Helpdesk at 952-967-6600.

Privileges are assigned as follows:

- a. Lab Assistants: Retrieve only
- b. Lab Tech: Edit, Retrieve
- c. Clerical: Retrieve only
- d. Nursing: Most can retrieve only. Nurses who perform ECG's have access to Edit and Retrieve.
- e. Provider: Over reader, Edit and Retrieve
- f. Advanced Practice Providers (APP's): Over read, Edit and Retrieve:

The APP's supervising physician must ensure that this is within the provider's scope of practice and should be confirmed by the clinic's Chief of Professional Services. Once established, the APP may be set up with the necessary MUSE privileges to over read and bill for ECG's. For proper documentation of privileges, contact Laboratory Administration.

Once Log on is accepted, the Authorization window closes and the Home Screen opens.

Summary of Steps to Editing an ECG:

- ECG is transmitted into MUSE
- Copy is given to Provider to over-read and the copy is returned to lab..
- Sign onto MUSE and MUSE opens to the HOME page.
- Select the patient from the Edit List or the Edit/Retrieval List
- This opens the patient record to the Edit/Retrieve Screen.
- Make sure that the message says "No Mismatch Detected
- Make sure the Order and Visit numbers are filled in.
- If not, these must be resolved before confirming.
- Record any of the provider changes, if present, to the instrument interpretation.
- Confirm and Print

B. Home Screen

1. Title Bar: Displays the current application, user, and site

MUSE® System - Edit/Retrieve: Site:1 User:1008 System Go List Test Patient Tools <u>Help</u>

2, Menu Bar Selection: Provides access to all tasks available within the Editor application. Clicking on the menu item brings up a drop-down menu of related commands. Most items on the drop-down menu can also be accessed by using corresponding shortcut keys or icons.



3. Icon Toolbar: The toolbar across the top is a list of ICONS that are available in MUSE.. When the cursor hovers over the ICON and it is active, a display message appears identifying the ICON. If the ICON is inactive, it will be grayed out. ICON's are either active or inactive depending on where you are working in MUSE. When an EKG is highlighted or opened, more ICON's become active.

Example: HOME Screen:

| iplay Columns 🛞 | Patient 10 091274160 099545799 | Name | 86 Items Ma | st by Test Date | Time | | | | |
|----------------------------|--|--|------------------------------|------------------|-----------|----------------------------------|-------------|----------|--------------------|
| splay Columns 🛞 | 091274160 | | 1 | | DaterTime | | | | |
| | | | Date/Time 🕶 | Test Type | Format | Status | Mismatch | Location | |
| | 099545799 | EPICTEST, EMROPS | Oct-21 09:40 | EC0 | | Updated | Yes | HPER | |
| ort Criteria 🛞 | | EPIC, TEST | Oct-21 09:32 | EC0 | | Updated | No | ER UCC | |
| et Criteria 🛞 | an other | (West of Contraction) (Section 197 | Aug-07 14:43 | | | Updated | No | RH \$10 | |
| | an ether | | Jul-12 06:45 Jul-12 06:45 | LP | | Newly Acquired Newly Acquired | No No | | Edit List: List of |
| | an other | 1000 1000 | Jul-12 06:36 | ECO | | Newly Acquired | No | | |
| ection Criteria | Barrise- | Charles Charles | Jul-12 06:36 | EC0 | | Newly Acquired | No | | Unconfirmed ECG's |
| | BOAT COMPANY | OWNER, CARLONNER, MARKET | May-24 14:05 | EC0 | | Updated | No | HPAN | |
| lect Pabert & Presets 🛞 | Ers - 2002 - 1- | CRIME COLORADOR | May-24 13:58 | EC0 | | Updated | No | HPAD | |
| | | Second and the second states of | May-24 13:51 | EC0 | | Newly Acquired | No | | |
| elect Patient by ID | | Million and American | May-24 13:15 | EC0 | | Newly Acquired | No | RH S7 | |
| | | and and a second second | May-24 12:43 May-24 12:38 | EC0 EC0 | | Newly Acquired Newly Acquired | No No | RHED | |
| | | | May-24 12:30 May-24 12:17 | EC0 | | Newly Acquired | No | CARD | |
| Tests | and a state of the | La rissa - Barrissa | May-24 12:00 | EC0 | | Newly Acquired | No | RHED | |
| Tests by Date/Time | Berninger and | accession of the second | May-24 11:58 | EC0 | | Newly Acquired | No | loc1 | |
| Orders by Date/Time | B | without a state | May-24 11:51 | EC0 | | Newly Acquired | No | | |
| Mismatches | E111111 | | May-24 11:49 | EC0 | | Newly Acquired | No | RH S8 | |
| My In-Basket | Procession of the local division of the loca | second second second second | May-24 11:44 | EC0 | | Newly Acquired | No | | |
| My Recent Edits | | CONTRACTOR CONTRACTOR | May-24 11:43 May-24 11:42 | EC0 EC0 | | Newly Acquired Newly Acquired | No No | SCHP | |
| | and the second second | | May-24 11:39 | EC0 | | Newly Acquired | No | oum | |
| Manage Presets | and the second second | CONTRACTOR AND INCOME. | May-24 11:26 | | | Newly Acquired | No | | |
| | | CONTRACT OF A CONTRACT | May-24 11:16 | EC0 | | Newly Acquired | No | | |
| dit List Options: | £11111000- | and a subsection of the subsec | May-24 11:14 | EC0 | | Newly Acquired | No | loc 4 | |
| · · · · | B | 10.000 (10.000 | May-24 11:10 | EC0 | | Newly Acquired | No | RH ED | |
| Select ECG's | | 1000100-0000 | May-24 11:09 | EC0 | | Newly Acquired | No | | |
| ccording to Presets | B | Anne and a construction of | May-24 11:09 | EC0 EC0 | | Newly Acquired | No | SCHP | |
| coording to presets | | realized and a second of the | May-24 11:09 May-24 11:04 | ECO | | Newly Acquired Newly Acquired | No No | SCHP | |
| | | CORPORATE AND ADDRESS OF | May-24 11:03 | ECO | | Newly Acquired | No | RH ED | |
| | And a state of the | COMMENT AND DESCRIPTION | May-24 11:02 | EC0 | | Newly Acquired | No | | |
| | | construction - An Annal | May-24 11:01 | EC0 | | Newly Acquired | No | loc 4 | |
| | E-DOBELLA- | destruction, we destruct | May-24 11:00 | EC0 | | Newly Acquired | No | | |
| | L | COMPANY - COMPANY NO. | May-24 11:00 | EC0 | | Newly Acquired | No | HPMY | |
| | | | May 24 10-65 | 600 | | Manufa Arrenieral | B.Lo. | BUIEN | |
| | | | Test/Order Retr | | | | | | |
| Test/Order Q, Patient | Patient ID | Name Date/Time A | Test Type F | ormat St | atus Mir | smatch Location | • | | |
| Patient ID: | | | | | | | | | |
| 1 | Test | alex Detviewel Liet | . I tak a fire | الحرب بامترينا م | a stisset | - ECOle etc | un al im Ad | | a atatus at |
| Last Name: | restour | der Retrieval List | . LISCOTIF | iuividual | patient. | 2 500-2 210 | reamm | use, th | e status of |
| First Name: | unconfi | irmed orders and | also the s | status o | f the EC | G's on file. | | | |
| Match Phonetically | | | | | | | | | |
| | | | | | | | | | |
| Test Date: 09-Feb-2012 🗾 💻 | | | | | | | | | |
| Test Type: All | | | | | | | | | |
| | | | | | | | | | |
| Order Number: | | | | | | | | | |
| Search More | | | | | | | | | |

- **4.** Edit List: The Edit list is displayed in the large right Window Pane. The edit list contains the Unconfirmed ECG's. At the Edit List, patient tests may be selected for editing, printing or confirming. The ECG's on this list can be sorted by clicking on the column header. The options are
 - Patient ID: Patient Medical Record Number:
 - Name: Patient Name
 - Date and Time: Date and Time that ECG was performed
 - Test Type: Test type for our purposes will be ECG
 - Status: The ECG test status is in upper and lower case letters. The options are
 - <u>Newly Acquired</u>: The ECG was sent to MUSE
 - <u>Updated</u>: The ECG has been updated to the edit list after a correction or an order was recently attached.
 - Mismatch: States whether there is a mismatch, Yes or No
 - Location: Clinic Location where performed.

5. Edit List Options: The Upper Left Window Pane contains Edit List Options. Edit List Options contains a number of PRESETS or filters. This allows only ECG's that meet the criteria of the PRESET to be displayed. The list of PRESETS options include:

- Select Patient by ID:
- Select Orders by Date & Time: This list is for orders for all clinics. The order status displays in UPPERCASE letters and can be <u>OPEN</u>, <u>PENDING</u> AND <u>DISCARDED</u>.
- Select by Clinic Location: View ECG's performed only at specified clinic location.
- Mismatches: See all the clinic PID/name mismatches
- Clinics by Location: This is the default

6. Test/Order Retrieval List: Located in the lower half of the Home screen. This screen contains a list of the patient's stored ECG's in MUSE, the ECG order and ECG status, whether confirmed, ` unconfirmed newly acquired or updated..

| | Test/Order Retrieval List by Patient Name (Long Format), 7 Items Matching Current Search | | | | | | | |
|--|--|------------------------------|------------------------------------|------------|------------------------|------------------------|----------|----------------|
| 🗄 Test/Order 🙎 Patient | Patient ID | Name 🔻 | Date/Time | Test Type | Order Number Format | Status | Mismatch | Location |
| Patient ID: 123123123 | 123123123 123123123 | DOE, JAYNE DOE, JAYNE | Jan-20 12:47:58 Jun-21 14:54:41 | ECG ECG | 119527757 127577633 | Confirmed Confirmed | No No | HPWY CARD |
| Last Name: | 123123123 | DOE, JAYNE DOE, JAYNE | Jul-02 16:50:28 | ECG | 128186133 | Confirmed | No | RH ERE |
| First Name: | 123123123 123123123 123123123 | 23123123 DOE, JAYNE | Jul-02 18:41:30 Apr-09 10:10:49 | ECG ECG | 128188021 105725573 | Confirmed Confirmed | No No | RH ERE HPWY |
| Match Phonetically | 123123123 | DOE, JAYNE | Feb-07 12:17:00 Feb-07 12:34:34 | ECG ECG | 140380681 140380681 | UNCONFIRMED Updated | No | HPWY HPWY |
| Test Date: (12-Feb-2012 🗾 🚥 | | | | | | | | |
| Test Type: 🛛 🔤 🔽 | | | | | | | | |
| Order Number: | | | | | | | | |
| Search More | | | | | | | | |
| Jser: 1008 Site: 1 No Overreader Patient: (N | one) Test/Order | : (None) Test Retrieval: 0/7 | | | | | | |

There are two tabs on the lower left hand side of the screen:

<u>Test/Order</u>: If you search by Test Order, all tests and orders are listed. Open any test/order by clicking on it.

<u>Patient</u>: Enter the chart number of patient name. Their name appears in the retrieval screen. Double click on the patient name and it takes you in to their file. It opens to a list of tests and orders.

7. Edit/Retrieval Toolbar: This toolbar is located at the bottom of the Home Screen. It lists the User ID, Site, Overreader and Patient Information.

User: 1008 Site: 1 No Overreader Patient: (None) Test/Order: (None) Edit List: 0/10

Patient Medical Record Number in MUSE:

Muse requires a 9 digit number. HealthPartners patients have an 8 digit medical record number. To meet MUSE requirements, add a zero in front of the HealthPartners Medical Record Number.

Opening a Patient Record:

A patient record can be opened by entering the record through the Edit List or the Test/Order Retrieval List:

- a. Opening from the Edit List:
 - To open a single record: Select the patient and double click on the record.
 - To open multiple records: Hold the Ctrl key down and click on each record you want to view. Or hold the Shift key down and click on the last record you want to view. All records between the first and last record selected are now highlighted. Press the Enter key to view the first record, then each selected record consecutively.
- b. Opening from the Order/Retrieval List:
 - 1. Type in the patient ID in the Patient ID text box, or type the Last Name, First Name, Test Date, Test Type or Order Number.
 - 2. You can choose to check or clear the Match Phonetically box to search patient names phonetically or exactly as typed.
 - 3. Click Search. A list appears with all the patients in the system matching the name and/or test date entered.
 - 4. Highlight and double-click on the name of the report wanted. The report opens in the Report Editor window.

Icon Descriptions and Functions:

Go to Home



Go to Selected Item: Select an item by clicking on it and then click on this icon. Another option is to double click on the item.



Open Next Selected Item: If you selected on more than one ECG on the EDIT list, once you open the first ECG, click on the arrow to move to the next selected ECG. When completed, it returns to the Home Screen.



Print Test: Option to print to any System Printer listed in the printer directory



<u>Update:</u> Save changes without confirming and billing. The record status will be noted as Updated in the Edit List. We generally use Update instead of Save Test as Demographics Complete. Both update demographic changes.



Save Test as Demographics Complete: Very similar to Update. The record status will be noted as Demographics Complete in the Edit List.



Send Test to In-basket: Do NOT use



Send to Serial Comparison: When multiple ECG's are run within a few minutes of each other and sent to MUSE, this allows the deletion of the unwanted ECG's and reruns the serial comparison so that the current ECG will compare with the desired previous ECG



Send Open or Selected Test to Discarded Data List: To Delete the unwanted ECG's, highlight them and send to the discarded data list. If the wrong ECG is accidently deleted, call the Helpdesk. Discarded ECG's are retrievable.



Select Test Editor Layout: There are several waveform options for viewing the patient record. Waveform Layout, Serial Presentation Layout, Clinical Layout, Enhanced Clinical Layout, Clerical Layout and the option to select a Primary Layout and an Alternate Layout.



Physician Tools for Over-reading: Do NOT Use



Physician Tools for Over-reading: Do NOT Use



On-line Help: This is the MUSE manual. It opens to the area that is being worked on.



Log Out: Logs out to Log In Screen



Exit Application: Exits Application and shuts down MUSE



Confirm, Print and Route

C. Edit/Retrieve: Patient Record Screen:

1. Viewing Options:

There are several patient record viewing options.

- Waveform Layout
- Serial Presentation Layout
- Clinical Layout
- Enhanced Clinical Layout: Do NOT Use
- Clerical Layout
- Select as Primary Layout : Do NOT Use
- Select as Alternate Layout: Do NOT Use



Select this Icon and press the drop down arrow or Tools>Test Editor Layout. Select the layout of your choice.

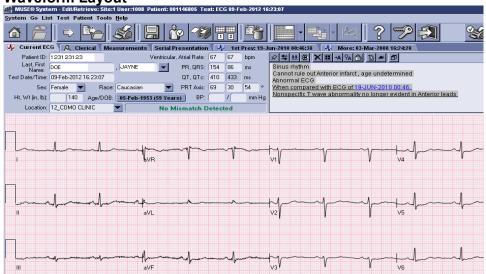
| System V to the X III - 4 Sh A A | |
|---|----------------|
| P P | |
| Co When compared with ECc of 19-JUN-2010 00.46. Nonspecific T wave abnormality no longer evident in Anterior leads. | |
| Test | Detected |
| | TMARK, MARTINA |
| | TMARK,MARTIN/ |
| Tools Age/DDB: 05-Feb-1953 (59 Years) Acquiring Tech: | ЈК |
| Sex, Race: Female V Caucasian V Editor: | |
| Ht, Wt (in, lb): 140 Option Number: Fellow: | |
| Waveform Tools Location: 12_COMO CLINIC Confirmed by: | |
| Cart Number: Cart Number: Edit Date/Time: | |
| Test Reason: Order Number: 140 | 546994 |
| INTERPOATE: Visit Number. 112 | 7021583 |
| DIAGNOSIS: V72.83 Account Number: 1127021583 | |
| Discard Test Diagnosis: User Defined: | |
| Comments: Secondary ID: | Chan |
| | bpm |
| | ms |
| | ms |
| PRT Axis: 69 30 | 54 ° |

Clerical Layout: Displays patient demographic information without a waveform, and may be edited.

| 🏰 MUSE® System - Edit/Retrieve: Site:1 Use | er:1008 Patient: 001 | 146805 Test: E | CG 09-Fe | b-2012 16:23 | 3:07 | | | | | | | |
|---|----------------------|------------------|-----------|--------------|------------|-----------------|----------|----------|----------|----------|---------------------|------------------|
| System Go List Test Patient Tools <u>H</u> elp | | | | | | | | | | | | |
| System | 🚯 Current EC | G Serial Pres | entation | Measure | ments | 🥠 First Pr | evious E | cg 📢 | 🚺 Old | lest ECG | | |
| -> 2 ? | Patient ID: | 23123123 | | | | r, Atrial Rate: | 67 6 | 7 bpr | m | _ | 秋事 | |
| | Last, First Name: | DOE | | JAYNE | - | PR, QRS: | 154 8 | 6 ms | | | rhythm | Anterior infarct |
| Go | Test Date/Time: | 09-Feb-2012 16:2 | 3:07 | | | QT, QTc: | 410 4 | 33 ms | | | determin | |
| | Sex | Female 🔽 | Race: | Caucasian | - | PRT Axis: | 69 3 | 54 | ° | | mal ECG | |
| | Ht, Wt (in, Ib): | 140 Ag | ge/DOB: (| 05-Feb-195 | i3 (59 Yea | rs) BP: | | n | nm Hg | | compare -JUN-201 | d with ECG of |
| T = +4 | Location: | 12_COMO CLINIO | | | No N | lismatch D | etected | 1 |) | | | vave abnormal |
| | Room Number: | | | Order Num | nber: 🚺 1 | 40546994 | | Ref | erring P | hys: 👘 | HAR | TMARK, MARTI |
| | User Defined: | | | Visit Num | nber: 🚺 11 | 27021583 | | Ord | lering P | hys: 🦲 | HAF | RTMARK,MARTI |
| The second se | Option Number: | | | | Change | Log | | Acqu | uiring T | ech: 📃 | | JК |
| | Secondary ID: | | | | | | | Τe | est Rea | son: | | |
| Tools | | | | | | | | | | | | |
| | | | | | | | | | | | . 1 | |
| | 1 mil | ~~~~h~~~ | | | ~~~~~ | T | 1 | -r | | m | | |
| | | | avn | | | · · · | | | | | | |
| Waveform Tools | | | | | | | | | | | | _ |
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| | | | | | | | | | | | | |
| | | | | | | | 4 | | | | | |
| Confirm and Route Test | V1 | 1 | V | V | | V | V | V | | V | V | |
| | | | | | | | | | | | | |
| Q-C | | | | | | | | | | | | |

Clinical Layout: Displays patient demographic information with waveform and may be edited.

Waveform Layout



| 🏭 MUSE® System - Edit/Retrieve: Site:1 Use | r:1008 Patient: 00 | 1146805 lest: | ECG 09-F | eb-2012 16:2 | 3:07 | | | | | |
|--|--|----------------|----------|----------------|--------------|--------------|-------------|------|-----------|---|
| <u>S</u> ystem Go List Test Patient Tools <u>H</u> elp | | | | | | | | | | |
| System | Patient ID: | 123123123 | | | Ventricular, | Atrial Rate: | 67 | 67 | bpm | ☆ \$ 秋海 ★ ■ -A ?A (|
| | Last, First Name: | DOE 1 | | JAYNE | - | PR, QRS: | 154 | 86 | ms | Sinus rhythm |
| | Test Date/Time: | 09-Feb-2012 16 | 6:23:07 | | | QT, QTc: | 410 | 433 | ms | Cannot rule out Anterior infarct undetermined |
| Go | Sex | Female 🔽 | Race: | Caucasian | | PRT Axis: | 69 | 30 | 54 | |
| | Test Date/Time: Ht, wt (in, ib): | 140 | Age/DOB: | 05-Feb-19 | 53 (59 Year | s) BP: | | 1 | mm H | g When compared with ECG of 19-JUN-2010 00:46, |
| | | 12_COMO CLIN | | - | | ismatch [|)etec | ted | | Nonspecific T wave abnormali |
| | | , | | | | | | | | |
| | , I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I.I. | | | | | | | | | |
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| Tools | | | | | | | ' | | | |
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| | | | 3/ | د م | | V | ns l | | V | V vs |
| Waveform Tools | | | | | | | | | | |
| | Immah | marker | march | much | | | Im | | han | -sharahanaha |
| | | | | | | | | | | |
| | A 1st Prev: | 19-Jun-2010 00 | :46:38 | More: | 03-Mar-200 | 8 16:24:28 | | Olde | st: 17-De | ec-1998 16:21:00 |
| | | | | | | | | | | |
| Discard Test | 1 hiland | hand | -l+ | ~~~~ | r | | ~~~~ | ~~~~ | m | |
| | 1 | | ้อง | /R | , , | 1 | /1 | 1 | 1 | V4 |
| | | | | | | | | | | |
| Confirm and Route Test | how | hat | aft | | ~h | | | r | -v- | -vhh |
| Q.C. | _" | | 3 | /L | | , | 12 | 1 | , | 1 vs |
| | | | | | | | | | | |

Serial Presentation Layout: Displays current ECG and most previous



Discard Test ICON: Selecting the Discard Test ICON discards the ECG that is open on the screen. The pink grid is the only ECG edited or discarded. Selecting the first previous and then the Discard Test ICON, still discards the current ECG (pink grid).

2. Updating Patient Demographics:

| System Go List Test Patient Tools <u>H</u> elp | | | | | | | | | | |
|--|---|------------------------------|--------------|----------------|---|---------------------------|------------|------------|-------------------|-------------|
| System | × \$ ₩ ₩ X | II →A 9A 🔂 🖬 | ì 🛎 🗗 | | | | | | | 1 |
| "" () () () () () () () () () () () () () | Sinus rhythm Possible Left atrial Left axis deviation Left bundle branch | enlargement | | | | | | | | |
| Go | Abnormal ECG When compared w Left bundle branch | th ECG of <mark>08-SE</mark> | | L | | | | | | |
| Test | | | | | _ | | | | Must say No N | lionatob |
| | Patient ID: | 123123123 | | | | (No | Mismatch | Detected | Detected befo | |
| | Last, First Name: | DOE | | JAYNE | - | Referring Phys: | (| BUTTE, MA | RY Aconfirming EC | э |
| | Test Date/Time: | 10-Feb-2012 16:44 | :26 | | | Ordering Phys: | [| BUTTE,MA | RYA | J |
| Tools | Age/DOB: (| 27-Sep-193 | 5 (76 Years) | | | Acquiring Tech: | | PAL | | J |
| | Sex, Race: | Female 🛛 🔽 | Caucasian | | | E ditor: | (| | | |
| | Ht, Wt (in, Ib): | | | Option Number: | | Fellow: | (| | | |
| Waveform Tools | Location: | 46_COON RAPIDS | ; | | | Confirmed by: | (| | | |
| | Cart Number: | 46 F | Room Number: | | | Edit Date/Time: | (| | | |
| No Nr. Mo | Test Reason: | | | | | Order Number: | 14 | 10618070 | Order a | |
| Ar HAN HAN | INTERPDATE: | | | | | Visit Number: | | 28259400 🏒 | | is required |
| | DIAGNOSIS: | 591 | | | | Account Number: | 1128259400 | | ECG | |
| Discard Test | DIAGNOSIS: | V72.83 | | | | User Defined: | (| | | |
| | COMMENTS: | | | | | Secondary ID: | (| | Change Log | |
| | | | | | | Ventricular, Atrial Rate: | 69 69 | bpm | | |
| Confirm and Route Test | | | | | | PR, QRS: | 160 124 | ms | | |
| | | | | | | QT, QTc: | 424 454 | ms | | |
| SO | | | | | | PBT Axis: | 41 -52 | 100 • | | |
| | | | | | | BP: | | mm Hg | | |
| | | | | | | | | | | |

Example: Edit/Retrieval Screen: Complete with requirements met.

- **a. Downloaded Patient Orders:** Whenever possible, download patient orders into the ECG machine instead of manually entering information. Downloading patient information into the ECG machine, ensures that patient demographics are correct.
- **b.** Manually Entered Patient Orders: When orders are manually entered into the ECG cart and transmitted to MUSE, there is the possibility of name mismatches and incorrectly released orders.
- **c. Messages:** When a patient record is opened and information is correct, a message says "No Mismatch Detected". If there is message such as "PID Mismatch" or "No ADT Record for Patient", it must be resolved before confirming the ECG.

d. Order and/or Visit button:

An order number is required for the ECG to be visible in the patient medical record in EPIC and to bill correctly.

To get this order number, an order needs to be entered into the patient medical record and the test released through an appointment.

Order Number and a Visit Number are obtained by:

| 1. | Downloading the patient information from EPIC into the ECG Cart. This is the |
|----|--|
| | method we should ALWAYS use unless EPIC or MUSE is down or there is an |
| | Emergency. When we download: |
| | |

- All patient information is correct
- b. There is an order number and a visit number making sure that all workflow is correct.

c. The preliminary report is visible in EPIC and is overwritten upon confirmation so there is always just one report in EPIC per order.

- Manual Entry with a valid order released through an appointment:
 - a. The order Number, if entered on the cart from the white sheet, will be visible as the order number in MUSE. You will be able to click on it to merge the order and visit number. Beware of clerical errors which prevent the ECG from filing to EPIC and billing correctly.
- 3. Manual Entry with no order/appointment:
 - a. Since a valid order number isn't available, MUSE generates a pseudo order number so that the preliminary ECG can be viewed in EPIC. This number looks the same but it is not an actual order number. It cannot be merged to the visit and it cannot be used for billing. This preliminary ECG will never be overwritten in EPIC upon confirmation. There will always be multiple ECG reports for the same tracing in EPIC.

e. Merging a Manually Entered Order with an Interfaced Order:

Every ECG in MUSE must be associated with an EPIC order. It is required to have the order released through the appointment associated with the order. If patient information was manually entered into the ECG cart without a valid order number, once the ECG was sent to MUSE the order number will be auto-generated and the Visit number will be blank. To get a valid visit number, an order needs to be placed in EPIC for the date of service and released through an appointment from that day. Once that is completed, merge it by going into MUSE and click on the Visit button. Select the Visit number. Select the order number and make sure you are selecting the correct order. Once the provider has over-read the ECG, confirm it in MUSE. The preliminary report will always stay in EPIC and there will be a separate report for the confirmed report.



f. Update: Use at any time to save changes without confirming and billing. The record status will be noted as Updated in the Edit List.

3. Edit/Retrieval Screen: Problems Requiring Resolution:

Example: Edit/Retrieval Screen: Order Number and Visit Number are blank.

| | oystern | | 2 5 然 9 入意 | *A YA 🛅 🖻 🐣 🗗 | | | | | | | |
|------------|-----------------|--------|--|-------------------------------|-------------------|-------------|--------------------------|----------|-------------|------------|----|
| ~ ? | 1 ? | | *** Poor data quality, interpretation may be adversely affected Sinus tachycardia Possible Left atrial enlargement | | | | | | | | |
| An I | Go | | Borderline ECG When compared with ECG of 13-JAN-2012 19:25. No significant change was found | | | | | | | | |
| | | | No significant change | was tound | | | | | | | |
| a la | Test | | | | | | | | | | |
| SO S | Select an Order | | | | | × | N | Mismatch | Detected | | - |
| e K | Order Number | Status | Order Date | Ordering Physician | Test Type | VisitNumber | Referring Phys: | | ONNIER, ELI | | |
| | 140602360 | OPEN | 2/10/2012 2:11:00 | SONNIER,ELIZABE | Resting ECG | 112830807 | Ordering Phys. | | UNNIER, ELI | | i. |
| | | | | | | | Acquiring Tech: | | RB | | 1 |
| | 4 | | | | | | Editor: | | KD | | 1 |
| | 2 | | | | | | Fellow: | | | | K |
| | | | When you click on the | e order number, this box op | ens. Click on the | | | | | | ł. |
| | | | order and then select | | | | Confirmed by: | | | _ | |
| H | | | The Order Number ar | nd the Visit Number then fill | in. | | Edit Date/Time: | | | | |
| ليليها ال | 1 | | | | | | Order Number: | <u> </u> | | | |
| | | | | | | | Visit Number: | | | | |
| | | | | | | | Account Number: | | | | |
| | | | | | | | User Defined: | | | | |
| | | | | | | | Secondary ID: | | | Change Log | J |
| | | | | | | | entricular, Atrial Rate: | 108 108 | bpm | | |
| Con | | | | | | IIIIIII | PR, QRS: | 140 90 | ms | | |
| O.C. | | | | | | | QT, QTc: | 360 482 | ms | | |
| 50 | No Or | der | | ок | <u>C</u> ancel | | PRT Axis: | 51 26 | 74 ° | | |
| | | | | | | | BP: | | mm Hg | | |
| | <u> </u> | | | | | | l | | | | |
| | | | | | | | | | | | |

a. Order and/or Visit button are blank:

Every ECG in MUSE must be associated with an EPIC order and ordered through the appointment associated with the order. If the Order number is auto-generated and the visit button in MUSE is blank, it may be for one of the following reasons:

- The patient information was manually entered into the ECG machine and no patient appointment was made in EPIC. No appointment is available to merge the ECG with. Have the nurse/provider order the ECG through that day's appointment. Release the order. Click on the Order number to fill in the Order and Visit numbers. This merges the ECG.
- The Order/Visit numbers are blank because 2 ECG's were performed for the same order and another order needs to be created if both ECG's are wanted on the medical record. Verify that 2 ECG's were performed; make sure that the provider wants both and that one was not transmitted in error. If the provider wants both, ask the nurse to place a second order for an ECG. Then merge the second ECG to the new order. If only one ECG is wanted, delete the unwanted one.
- There may be a message that the order is pending. This means that the order was downloaded into the ECG machine but not used. The order needs to be returned to Open Orders.
- The patient information was manually entered into the ECG machine and sent to MUSE. All information was entered correctly and the order was released through an appointment but needs to be merged with the interfaced order. Click on the Order Number and the Order and Visit number will fill in.

Example: Edit/Retrieval Screen: Error Message: No ADT Record for Patient and Visit Number is blank.

| System of List rest ration roots help | |
|---------------------------------------|---|
| System | ※S 無意 X ■ A % 合 D ★ D Sinus rhythm Normal ECG |
| Go | When compared with ECG of 30-SEP-2011 17:17, No significant change was found |
| Test | |
| | Patient ID: 123123123 No ADT record for patient |
| | Last, First Name: DOE , JAYNE Referring Phys: JOHNSON, BRUCE M |
| Table | Test Date/Time: 20Jan-2012 17:27:30 Ordering Phys: JOHNSON,BRUCEM |
| | Age/DOB: 08-Dec-1941 (70 Years) Acquiring Tech: ARS |
| | Sex, Race: Female Caucasian Editor: |
| | Ht, Wt (in, lb): Option Number: Fellow: |
| Waveform Tools | Location: 34_ST. PAUL CLINIC Confirmed by: |
| | Cart Number: 1 Room Number: Edit Date/Time: Missing Visit Number: 139264969 ECG Orded was not |
| |)Released Through an |
| | INTERPDATE: Visit Number: Encounter. Encounter. |
| | |
| Discard Test | DIAGNOSIS: User Defined: COMMENTS: Commentation Secondary ID: Change Log |
| | |
| | Ventricular, Atrial Rate: 65 65 bpm PR, QRS: 136 76 ms |
| Confirm and Route Test | QT, QTc: 460 478 ms |
| 1 Alexandre | PRT Axis: 47 30 7 • |
| | BP: / mm Hg |
| | |

b. PID/Name Mismatch

A mismatch message will appear if there is a mismatch. To resolve the mismatch: Click on the down arrow next to the Last Name field.

Select the appropriate name from the list. The report name will be replaced by the name selected. Report Name: Current report name

System Name: Name attached to the record that was acquired into the MUSE before the current report, and has the same PID as the current report.

Admitting Name: Name sent to the MUSE from the HIS interface. Always select the Admitting Name when the Admitting Name and the Report Name are the same. If they are different, investigate the reason for the mis-identification.

When there is a mismatch, make sure to verify the correct number in EPIC. Sometimes the wrong number has been entered or a zero is missing at the beginning of the patient chart number. If this is the case, do the following:

- 1. Correct the number.
- 2. Select the admitting name. The Order and Visit fields will be visible.
- 3. If the error message is still there, click on the Order Number and select "No Order".
- 4. Select the Visit Number and choose the correct visit.
- 5. The Order Number is now blank.
- 6. Select the Order Number again and select the correct order and say ok.
- 7. The message should now say "No Mismatch Detected".

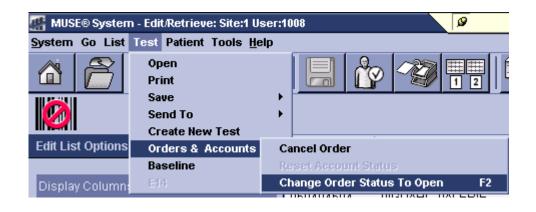
Example: Edit/Retrieval Screen: Error Message: PID Mismatch

| aystern og rist rest ratient roois lieth | μ – | |
|--|---|--|
| System | ※ \$1.故意入園→內合 D▲ 团 Electronic ventricular pacemaker | |
| Go | | |
| Test | Patient ID: 123123123 | |
| | Last, First Name: DOE , JAYNE Referring Phys: RETHWILL, MICHAEL A Test Date/Time: (03Feb-2012 10:53:41 Test Name:DOE, JAYNE HAELA | |
| | Age/D0B: 17-Jan-1944 (68 Years) Sex, Race: Male Caucasian System NameDOE, JAYNE M Admitting NameDOE, JAYNE Caucasian | |
| | Ht, Wt (in, lb): Option Number: Fellow: System PIDNa | |
| Waveform Tools | Location: 16_MAPLEWOOD CLINIC Confirmed by: Cart Number: 1 Room Number: Edit Date/Time: | |
| | Test Reason: Order Number: 140141270 | |
| | INTERPDATE: Visit Number: 1128018993 DIAGNOSIS: V72.848 Account Number: 1128018993 | |
| Discard Test | DIAGNOSIS: | |
| | COMMENTS: Secondary ID: Change Log Ventricular, Atrial Rate: 55 55 bpm | |
| Confirm and Route Test | PR, QRS: 162 184 ms | |
| 8 | QT, QTc: 510 487 ms PRT Axis: 190 41 ° | |
| | BP: / mm Hg | |

c. Pending Orders

To change Pending status to Open, go to Test>Orders & Accounts>Change Order Status to Open or Shortcut Key F2

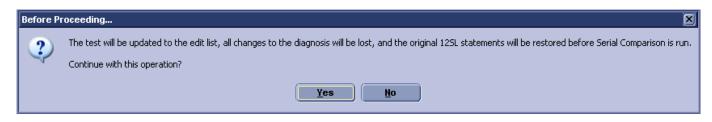
| Test/Order Retrieval List by Patient Name, 3 items Matching Current Search | | | | | | | | | |
|--|------------------------|--------------------------|------------------------------------|------------|------------------------|-----------|------------------------|------------------|--------------|
| 🛃 Test/Order 🔒 Patient | Patient ID | Name 🔺 | Date/Time | Test Type | Order Number | Format | Status | Mismatch | Location |
| Patient ID: 123123123 | 123123123 123123123 | DOE, JAYNE DOE, JAYNE | Feb-10 16:28:40 Feb-23 09:24:41 | ECG ECG | 120612068 121229854 | | Confirmed Confirmed | No No | HPAV HPRI |
| Last Name: | 123123123 | DOE, JAYNE | Feb-09 10:17:00 | ECG | 140512998 | \subset | PENDING | \geq | HPRI |
| First Name: | | | | | | | | - \ | |
| Match Phonetically | | | | | | | Order S | tatus: Pending | |
| Test Date: (12-Feb-2012 🔽 💷 | | | | | | | Need to | Change Status to | Open |
| Test Type: 📶 💌 | | | | | | | | | |
| Order Number: | | | | | | | | | |
| Search More | | | | | | | | | |



d. Serial Comparison:

Multiple ECG's are sometimes run within a few minutes of each other and transmitted to MUSE. Multiple ECG's are often rerun because of interference due to movement, lead problems, electrical, etc and a better tracing is desired. Since the instrument compares a patient's ECG with the most previous ECG, the comparison will be made with the ECG's run a few minutes earlier. In order to get an accurate serial comparison comparing the ECG from this appointment with the previous appointment, a new serial comparison should be run.

| 23123 1231231 1231231 1231231 | 23 DOE, JAYNE | Feb-11 17:44:07 | ECG | 140647395 | | | | |
|-------------------------------------|---------------|-----------------|---------------|--|------|---|---|---|
| | | | 500 | | | UNCONFIRMED | | HPWE |
| | 20 000,00100 | Feb-11 17:45:07 | | 140647395 140647395 | | Newly Acquired Newly Acquired | No Yes | HPWE |
| | | \sim | ECCle NUE | 1 minute exert | | | | |
| ally | | | | | | | | |
| eb-2012 💌 📟 | | ti | ne serial co | mparison rerun | | | | |
| | | | | | | | | |
| | | | | | | | | |
| More | | | | | | | | |
| | eb-2012 💌 | eb-2012 V | eb-2012 V m H | My One should eb-2012 I m the serial co More | More | Image: State of the second comparison region Image: State of the second comparison region Image: State of the second comparison region Image: State of the second comparison region | Image: State of the second comparison region Image: State of the second comparison region Image: State of the second comparison region Image: State of the second comparison region | Image: State of the second comparison region Image: State of the second comparison region Image: State of the second comparison region Image: State of the second comparison region |



Send to Serial Comparison

Delete unwanted ECG tracings from the Edit List or the Test/Order Retrieval List.



Option 1:

- Highlight the record from the Edit List
- Click on the Send Test to Serial Comparison Icon.
- The system will remind you that all changes to the diagnosis will be lost and the original 12SL statements will be restored. Click Yes.

Option 2:

- Highlight the record on the Edit List.
- Click Test on the menu Bar. Select Send To and then Serial Comparison
- The system will remind you that all changes to the diagnosis will be lost and the original 12SL statements will be restored. Click Yes.

e. Order Status Mismatch

If the Order Status Mismatch error message is present and there is an order and visit number, it is likely due to the fact that the order number is a pseudo-order number, created because there wasn't an order. This was created so the preliminary ECG is visible in EPIC but it cannot be used for merging or billing. A new order will have to be placed for the correct date of service and the order

will have to be released through the correct appointment. Then, the order can be merged by clicking on the order number in EPIC and selecting the correct order.

| 🐠 Current ECG 🛛 | & Clerical Measurements Serial Presentation | 🚯 1st Prev: 22-Mar- | 2013 11:15:03 | More: 23-Feb-2009 | 13:36:17 |
|---------------------------------------|---|---------------------------|----------------|-------------------|----------|
| ☆ち渋歯X | II → A A A D | | | | |
| | 1st degree A-V block | | | | |
| Minimal voltage cri Borderline ECG | teria for LVH, may be normal variant | | | | |
| | ith ECG of 22-MAR-2013 11:15, | | | | |
| No significant char | nge was found | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Patient ID: | 123456780 | Ord | er Status Mism | natch | |
| Last, First Name: | Doe , So 💌 | Referring Phys: | (YOU | NG, RAINA L | |
| Test Date/Time: | 22-Mar-2013 11:15:53 | Ordering Phys: | (YOU | NG,RAINAL | |
| Age/DOB: | 24-Apr-1939 (73 Years) | Acquiring Tech: | | AMR | |
| Sex, Race: | Female 🔽 Caucasian 💌 | Editor: | (| | |
| Ht, Wt (in, Ib): | 233 Option Number: | Fellow: | | | |
| Location: | 49_Eagan | Confirmed by: | | | |
| Cart Number: | 0 Room Number: | Edit Date/Time: | | | |
| Test Reason: | | Order Number: | 1670214 | 493 | |
| INTERPDATE: | | Visit Number: | 1143631 | 760 | |
| DIAGNOSIS: | | Account Number: | 1143631760 | | |
| DIAGNOSIS: | | User Defined: | | 🗌 Do not bill | |
| COMMENTS: | | Secondary ID: | | | |
| | | Ventricular, Atrial Rate: | 67 67 bpm | Change Log | |
| | | PR, QRS: | 216 100 ms | | |
| | | | () (| | |

4. Over-reading the ECG:

Example: Edit/Retrieval Screen: Selecting an Over-reading Physician

| 👫 MUSE® System - Edit/Retrieve: S | Site:1 User:1008 Patient: 033606329 T | est: ECG 09-Feb-2012 16:10:(|)6 | |
|-----------------------------------|---------------------------------------|-------------------------------|----------------------------------|-----------------------------|
| System Go List Test Patient To | ols <u>H</u> elp | | | |
| System | ✓ \$ 秋唐 X ⊞ ≠ | 9a 🔂 🛍 🛋 🗗 | | |
| 🌱 💫 ? | | ent Premature ventricular co | mplexes in a pattern of bigeminy | |
| Go | | | | |
| | 🏰 Select Overreader | | | |
| | | Users matching sear | ch criteria | |
| Test | Last Name First Name | User ID Login ID | en enteña | |
| | PASTIR, MD JEFFREY | 349 349 | | |
| 💰 🧐 📃 🗽 | | | | |
| | | | | ch Detected |
| | | | | YOUNG, RAINA L |
| | | | | YOUNG,RAINAL |
| Tools | | | | MA |
| | | | | |
| | | | | |
| Waveform Tools | | | | |
| | | | | |
| 1 1 AV 10 | | | | 140533952 |
| | | | | 1128314343 |
| | Enter all or pai | t of a user name and click s | search to find matching users. | 343 |
| Discard Test | Last & First Name: | PASTIR MD | , JEFFREY | |
| | User ID: | | 10211121 | Change Log |
| | Oserib. | 349 | | 5 bpm |
| Confirm and Route Test | | Search | <u>OK</u> <u>C</u> ancel | 2 ms |
| Q-Q | | <u><u><u>s</u>earch</u></u> | | 26 ms |
| | | | PRT Axi | |
| | | | BI | P: / mm Hg |
| | | | | |
| | | | | |
| | | | | |
| User: 1008 Site: 1 No Overreader | Patient: 033606329 Test: Newly Acqu | iired ECG on 09-Eeb-2012-16-1 | 0:06 Edit List: #1 of 1 | |
| | | | | |
| 🦺 start 🔰 🖉 📴 🖬 | 🛐 🔣 🦈 🗁 EKG's | 👿 2 Microsoft 👻 😡 | 2 Microsoft 👻 🦉 untitled - Paint | 🏰 MUSE® Syste 🔇 🐼 🏷 7:47 PM |

Selecting an Over-reading Physician:

- 1. At the Edit List, select Tools>Select Over-reader. The Select Over-reader window appears
- 2. You can search by name or user ID.
 - To search by User ID, type the User ID in the User ID field.
 - To search by Physician Name, type in all or part of a over-readers name in the First and Last Name fields. Click Search to search for matching users.
- 3. Highlight the correct user and click OK. The user's name will now appear as the over-reader for any reports being confirmed.

5. Editing the ECG:

Example: Edit/Retrieval Screen: Editing an ECG

| System Go List Test Patient Tools <u>H</u> elp | |
|--|--|
| System | ☆\$**@X圖→A@ 0 ▲ 0 |
| | Sinus rhythm with marked sinus arrhythmia |
| | Nonspecific T wave abnormality Abnormal ECG |
| Go | No previous ECGs available |
| | rapid heart rateEntered by Free Text |
| | GRS (GRS) |
| T | QRS duration (QRS-DUR) Abnormal QRS-T angle, consider primary T wave abnormality (QRST) |
| | Minimal voltage criteria for LVH, may be normal variant (QRSV) Ust QRS voltage (QRS-VOL) |
| | with QRS widening (QRSW) |
| | , may be secondary to QRS abnormality (SNDQA) |
| | Abnormal QRS-T angle, consider primary T wave abnormality (QRST) Heterring Phys. EVERTS, SHAWN S |
| | Narrow QRS tachycardia (NQTACH) |
| Tools | QRS (QRS) Acquiring Tech: AJH |
| | QRS duration (QRS-DUR) |
| | Wide QRS rhythm (\$SWQR) Fellow: |
| Waveform Tools | Wide QRS tachycardia (WQTACH) with QRS widening (QRSW) Confirmed by: |
| € <u></u> € ×/~ /~8 | with QRS widening and repolarization abnormality (STRAIN) Edit Date/Time: |
| 1 1 Nr IO | Test Reason: Order Number: 140600614 |
| | INTERPDATE: Visit Number: 1127232708 |
| | DIAGNOSIS: Account Number: 1127232708 |
| Discard Test | DIAGNOSIS: User Defined: |
| | COMMENTS: Secondary ID: Change Log |
| | Ventricular, Atrial Rate: 60 60 bpm |
| Confirm and Route Test | PR, QRS: 182 90 ms |
| | QT, QTc: 424 424 ms |
| | PRT Axis: 68 55 20 ° |
| | BP: / mm Hg |
| | |

To Edit the ECG:

See the Interpretation Screen that displays the instrument interpretation.

The original 12SL diagnosis appears shaded in gray.

Free Text entered appears with a different background color.

The cursor is over each character.

Blinking Cursor: Indicates where the library statements or free text will be inserted.

a. Adding Acronym Statement from the Acronym Statement List:

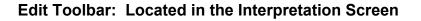
- 1. Type the first letter or second letter of the acronym you want to add to the diagnosis.
- 2. The Matching Mode list appears, with a list of the acronyms that contain the letters typed.
- 3. Highlight and double click on the correct acronym statement in the list. It appears in the diagnosis.
- 4. To delete the acronym statement, highlight the statement and press the Delete key, or place the cursor at the end of the statement and press the Backspace key.

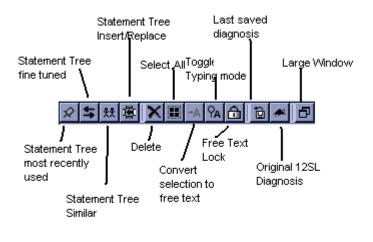
b, To add Free Text to the current Diagnosis Statement:

- 1. At the diagnosis statement window, insert the cursor at the point where you want to insert a free text statement.
- 2. Begin typing. Note: If you begin typing and the acronym drop-down box appears, continue typing until it disappears.
- 3. Press the Enter key to move to the next line.
- 4. To delete free text, highlight the text and press the delete key or insert the cursor and press the Backspace key. This deletes one character at a time.
- 5. To insert an acronym while typing free text, select the Insert key. The acronym drop down menu appears. Select the appropriate acronym and continue.

c. To Restore the Original 12SL Diagnosis:

- 1. Right click at the diagnosis statement. A menu appears.
- Select Original 12SL Diagnosis. The Original 12SL Diagnosis window appears. Click Restore. The diagnosis statement will be restored to the original 12SL diagnosis, including any statements deleted during editing.
- 3. All new statements and free text will be deleted if Restore Original Diagnosis is selected.







d. Confirming the ECG:

The ECG can be confirmed when:

- The Error Message has been resolved and it says "No Mismatch Detected"
- Order and Visit Numbers are filled in
- The Provider either agrees with the instrument interpretation and makes no changes to the ECG, or the Provider changes have been entered.
- When finished, press the Confirm and Route Icon or (F6) to confirm the ECG.

e. Shortcut Keys:

- F5: Refresh
- F6: Confirm and Route
- F7: Skip to the next test
- F8: Update to the edit list
- F2: Opens a Pending or Discarded order: Highlight and press F2. This changes the order to OPEN.

6. Print a ECG to a Defined Device

Example: Print an ECG

| s <u>H</u> elp | | | |
|---|--|---|---|
| ✓ \$ 秋 僅 X III -A 9A (| 1 1 × 7 | | |
| Select Device and Formatting Option | | | × |
| General Options Format Options | Available Devices | _ | |
| | Regions - LST Dispatch Room | | fCopies: (1 🛨 |
| | Regions - Results Printer (new) Regions Card Clinic Piversida Cardiolaev | P Normal | riority |
| | Riverside Clinic Riverway Anoka | Preop | |
| | Riverway Elk River Clinic RXPR210 | Stat | |
| | Temporary Device | | |
| | | | |
| | Use the genault report formats for this device Use specified report formats | | |
| | | | |
| | Recipient Name for Cover Page (optional): | | |
| | | | |
| | Select as <u>d</u> efault device | | |
| | | | |
| | | Ōĸ | <u>C</u> ancel |
| | シュ 林道、X町-A %A ft Select Device and Formatting Option General Options | Stelect Device and Formatting Options Select Device and Formatting Options General Options Format Options General Options Available Devices Regions - EX Phys RN Room Regions - UST Dispatch Room Regions - Outpatient Lab Regions - Results Printer (new) Regions - Card Clinic Riverside Cardiology Riverside Cardiology Riverside Clinic RXPR210 Use the genaut report formats for this device Use gpecified report formats Vise the genaut report formats Recipient Name for Cover Page (optional): | Select Device and Formatting Options • General Options Format Options Regions - EX Phys RN Room Regions - Outpatient Lab Regions - UST Dispatch Room Regions - Outpatient Lab Regions - Cardiology Riverside Cardiology Riverside Clinic Riverway Elk River Clinic Riverway Elk River Clinic Riverway Device Use the gefault report formats Use gpecified report formats Recipient Name for Cover Page (optional): |



a. To Print an individual ECG:

- 1. Select the Print ICON or Highlight a record and select Report from the Menu Bar at the top of the screen.
- 2. Select Print.
- 3. Select the desired printer from the list.
- 4. Select the number of copies. The default is 1.
- 5. Click OK

b. To Print a List:

- 1. Select and click on the print ICON.
- 2. To print a list, do a right click on the list and a box pops up to "print list".
- 3. Select the printer you wish to print to.

c. Printing to Regions Result Printer

When printing ECG's to Regions Cardiology to be over-read by a cardiologist, always print to **Regions Result Printer**.

7. Deleting an ECG order in MUSE:

- Cancel an ECG order without results, in EPIC. Credit the order in Sunquest. If it is cancelled only in Sunquest, the cancel will not file back to EPIC.
- Once an ECG is transmitted to MUSE and you want to delete it, contact IS Computer Help Desk. IS will make sure the record is correct in EPIC and that the billing information is also correct.

Transmitting EKG Results to MUSE Procedure v. 02/2012

This includes unwanted occurrences of transmission of multiple ECG's. Call or e-mail IS & T computer support. Make sure you say it is in MUSE.

8. Outside Provider Order:

- Place the order in EPIC. You will need to get an Epic number for the outside provider by contacting LIS, permission from a clinic provider to use them as the ordering provider or use the clinic's Doc of the Day.
- Release the order through a lab appointment.
- Enter the name of the outside provider in the "comments"
- ECG should be edited and confirmed according to the regular process:
 - o Clinic provider can read and edit ECG
 - ECG can be sent to Regions to read and edit
 - If patient is a pediatric patient (\leq 17 years of age), the ECG is sent to Childrens Heart.
- Follow faxing instructions as indicated on the paper requisition.

Always log out or exit application when finished with session.



Log Out: Logs out to Log In Screen



Exit Application: Exits Application and shuts down MUSE

Interpretations/Results

N/A

ECG results are blocked from the provider in-basket. The tracing is available in Epic in the patients chart under the ECG tab. Once the ECG is transmitted to MUSE, a preliminary, unconfirmed, copy is visible in EPIC in the patient's chart. When the ECG is confirmed, the preliminary is overwritten with the final, confirmed report.

Reference Ranges (Expected Values)

N/A

Computer Entry See Procedure

Notes

Edit List should be monitored weekly by each clinic's laboratory staff and "Super Users". If ECGs are still waiting in the "Edit List" after 1 week, reprint and distribute to physician reader.

Author (s)

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Endorsement Laboratory Administration