

McKesson Radiology™



McKesson Radiology™ Disc Quick Viewer User's Guide

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Rx ONLY

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About this document

This section provides information to help you understand the *McKesson Radiology™ Disc Quick Viewer User's Guide* and how to most effectively use it.

A McKesson product Users Guide represents the body of knowledge necessary for users to safely and effectively use the medical device.

Any addition, modification, deletion, or abridgement of this information by a party other than McKesson is not warranted by McKesson as a body of knowledge suitable for users to safely and effectively use the medical device.

Purpose

This document describes how to use the McKesson Radiology™ Disc Quick Viewer to view images and patient documentation that are stored on the **McKesson Radiology™ Disc media**.

Warning! This user's guide needs to be read as part of the User Documentation Library CD. In particular, this user's guide is complemented by the information provided in the Customer Release Notes and Software Update Notes. The former document type briefly describes a major or minor release provided by McKesson. The latter provides updates identified as a result of the Service Pack (SP) or Expansion Pack (EXP) release. In addition, Hot Fix Notes, which describe the purpose and contents of a hot fix, applied to the McKesson software, may be provided. It is assumed that the end user reads and follows the instructions supplied in the user's guide and the supplementary documentation. To ensure that you are familiar with the product features, enhancements, limitations and software problems resolved in a particular release (major, minor, SP, EXP) please read all the supplied documentation. This includes but is not limited to the following documentation: User's Guides, Customer Release Notes, Software Update Notes, Hot Fix Notes, Icon Cards and Quick Notes. In addition, when you use the software, please use the Help files supplied within the product. Failure to read and follow instructions and to learn the supplementary information may cause the end user to use the software incorrectly, and may result in possible misinterpretation leading to possible misdiagnosis or mistreatment decisions.

Audience

This document is written for McKesson Radiology™ Disc Quick Viewer users and administrators. Typically, the users are:

- Radiologists (on-site and at remote locations)
- Technologists
- Referring physicians
- Referring office staff
- PACS administrators

-
- Patients
-

Note: The document does not describe how to use the medical equipment at your facility, or how to perform medical diagnostic examinations. For this information, refer to the relevant manufacturer's manual and internal standard operating procedures.

Organization

This document contains the following major sections:

- **“Getting started”** describes how to start using the McKesson Radiology™ Disc Quick Viewer. The section includes an overview of the viewer.
- **“Viewing studies”** describes how to open studies, and how to view images and patient documentation associated with open studies. It also provides instructions on how to start the McKesson Radiology™ Disc Quick Viewer and print reports and images.
- **“Closing and exiting”** describes how to close studies and exit the McKesson Radiology™ Disc Quick Viewer.
- **“Customizing the viewer”** describes how to customize the appearance of the pages displayed by the McKesson Radiology™ Disc Quick Viewer.
- **“Study pages work area”** describes the study pages used to display study images and information.
- **“Glossary”** contains a list of terms and abbreviations used in this document.
- **“Index”** lists the most important concepts described in this document.

Related documentation

The following table lists the related documents:

Document name	Document ID
McKesson Radiology™ Applications Requirements Guide	2014-29479
McKesson Radiology Station™ User's Guide	2014-29468
McKesson Radiology™ Disc Advanced Viewer User's Guide	2014-29481
McKesson Radiology™ Disc Advanced Viewer and Quick Viewer Icon Card	2014-29783
McKesson Radiology™ 12.1.1 Customer Release Notes	2014-29467
McKesson Radiology™ 12.1.1 EXP3 Software Update Notes	2015-32414

Intended use statement

This software is indicated for viewing of medical images that are exported from a McKesson Radiology™ PACS.

It is intended to be used by qualified healthcare professionals, and patients via their healthcare professionals, to view the results of a diagnostic imaging exam.

Warning: It is intended for information sharing purpose only and shall not be used to make any clinical decisions.

Prescription device statement

United States law restricts this device to sale by or on the order of a physician or a properly licensed practitioner.

Your comments

We welcome your comments about the usability of the McKesson equipment and accompanying manuals. If you have questions or comments regarding this document, please contact the Product Documentation Group at McKesson.

Service Information

For technical support or any service related to McKesson equipment, please call the toll-free telephone number listed on the front or back of this guide.

Standard Coverage may include software support, hardware support and software updates as covered in the Support Maintenance agreement.

If you do call McKesson Support for service, please have this manual handy and be prepared to provide the following information:

- Your name and the name of the facility from which you are calling
- Your return telephone, fax, or pager number
- The system or equipment name on the McKesson label
- A description of the steps leading to the problem

Notes, cautions, and warnings

This document uses the following internationally accepted conventions in describing information that requires further attention by the user:

Type of additional information	Purpose
Note	Provides neutral or positive information that emphasizes or supplements important points of the main text.
Caution	Advises users of a potentially hazardous situation which, if not avoided or adequate precautions not taken, could result in minor or moderate injury to the user or patient, or potential device damage.

Type of additional information	Purpose (Continued)
Warning	Advises users of a potentially hazardous situation which, if not avoided or adequate precautions not taken, could result in loss of life or serious injury to the user or patient, and potential device damage.

Chapter 1 - Getting started

This section describes the McKesson Radiology™ Disc Quick Viewer.

In this section

This section contains the following topics:

Topic	See page
About the McKesson Radiology™ Disc application	1-2
Starting the Quick Viewer	1-5
Switching viewers	1-9
Troubleshooting	1-10

About the McKesson Radiology™ Disc application

This section describes the McKesson Radiology™ Disc application.

You may export study images and information from your McKesson Radiology Station™ workstation to a removable media or a folder accessible from another workstation.

You can also send study images and information from a McKesson Radiology Station™ workstation to a third-party disc publishing device that provides automated disc burning and labeling capabilities. This depends on the McKesson Radiology™ configuration at your site.

The McKesson Radiology™ Disc application enables you to display the study images and information on a workstation that cannot access the McKesson Radiology Station™ application.

Typically, the McKesson Radiology™ Disc application is used if you want to view study images at a different location, where you cannot access the McKesson Radiology Station™ application.

Warning: Images displayed in McKesson Radiology™ Disc viewer are not intended for primary diagnosis. For details, see “Intended use statement” on page 3-ix and “Indication that images are not for diagnosis” on page 2-7.

Two types of McKesson Radiology™ Disc viewers

There are two types of McKesson Radiology™ Disc viewers:

- McKesson Radiology™ Disc Advanced Viewer (hereafter referred to as the Advanced Viewer)
- McKesson Radiology™ Disc Quick Viewer (hereafter referred to as the Quick Viewer)

Both viewers are portable. They may be copied to removable media, such as CDs.

Viewer	Features
Quick Viewer	<p>A Web browser-based viewer that allows you to view study images and patient information. It provides the following features:</p> <ul style="list-style-type: none">• View the following items:<ul style="list-style-type: none">- JPEG images- Cine clips- Reports• Listen to voice clips• Use on any computer that has a Web browser

Viewer	Features (Continued)
Advanced Viewer	<p>A Windows®-based viewer that extends the basic functionality of the Quick Viewer. It provides the following features:</p> <ul style="list-style-type: none"> View the following items: <ul style="list-style-type: none"> DICOM images JPEG images Cine clips Reports Listen to voice clips Zoom and pan DICOM images Work with display protocols Modify DICOM images by: <ul style="list-style-type: none"> Adding annotations to a study image Modifying the Window/Level of a study image <hr/> <p>Caution: Modifications made to study images are discarded when the study is closed</p> <hr/> <ul style="list-style-type: none"> Set preferences that configure: <ul style="list-style-type: none"> Which icons are displayed on the main toolbar Which options are available when you right-click an image Whether Power Scrolling is enabled <hr/> <p>Note: Modifications made to preferences are discarded when the Advanced Viewer is closed.</p> <hr/> <ul style="list-style-type: none"> Define user shortcuts (For details, refer to the <i>McKesson Radiology™ Disc Advanced Viewer User's Guide</i>.) <hr/> <p>Note: Modifications made to user shortcuts are discarded when the Advanced Viewer is closed.</p> <hr/> <ul style="list-style-type: none"> Use on any computer that meets the minimum requirements

Software and hardware requirements

For the Quick Viewer software and hardware requirements, refer to the *McKesson Radiology™ Applications Requirements Guide* or contact your system administrator.

Starting the Quick Viewer

This section describes how to start the Quick Viewer.

Note: McKesson Radiology™ may not provide multilingual support, depending on its configuration. If multilingual support is not available in your medical institution, follow the relevant instructions that describe how to use the English version of McKesson Radiology™.

In this section

This section contains the following topics:

Topic	See page
Starting automatically	1-5
Starting the viewer manually	1-7
Configuring auto-launch	1-8

Starting automatically

This section describes how to start the Quick Viewer automatically. It may be started from these types of removable media:

- Compact Discs (CDs)
- Digital Versatile Discs (DVDs)

Prerequisites

The Quick Viewer may be started automatically, when you insert the removable media into the appropriate drive on your workstation.

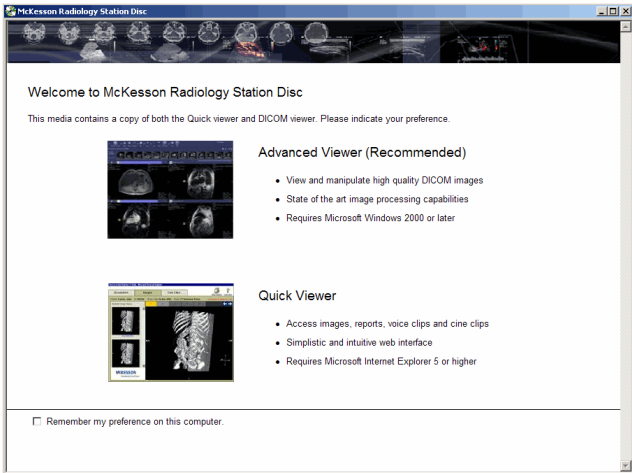
However, your workstation Window Registry needs to be preconfigured. The Windows® Registry `autorun` option needs to be properly set. If this is not the case, the viewer included on the removable media may not be started (may not run automatically).

For example, if this option is not set, the Quick Viewer may not be started automatically when you insert a CD into the workstation CD drive. You would need to start this viewer manually. See “Cannot start the viewer” on page 1-12.

Steps for this task

To start the Quick Viewer automatically:

- Insert the removable media into the appropriate workstation drive.

If these viewers are included on the removable media...	Do this...
Quick Viewer -and- Advanced Viewer	<p>1 The Welcome to McKesson Radiology Station Disc window is displayed.</p>  <p>2 Click Quick Viewer. The Quick Viewer is started, and the Study List or study is displayed. See “Opening studies” on page 2-3.</p>
Quick Viewer	<ul style="list-style-type: none"> • The Quick Viewer is started, and the Study List or study is displayed. See “Opening studies” on page 2-3.
Advanced Viewer	<ul style="list-style-type: none"> • The Advanced Viewer is started, and the Study List or study is displayed. See “Opening studies” on page 2-3. <p>Note: If a copy of the Quick Viewer does not exist on your local hard drive, a message is displayed indicating that the viewer is copied to the hard drive, before it is started.</p>

Starting the viewer manually

This section describes how to start the Quick Viewer manually, from a folder.

Prerequisites

The Quick Viewer is started via the `autorun.bat` file. This file is included with the Quick Viewer. Therefore, you need to know the location the viewer was exported to, to access the `autorun.bat` file. See [“Folders and files included with the Quick Viewer”](#) on page 1-10.

Steps for this task

To start the Quick Viewer from a folder:

- 1 Right-click the **Start** button.
- 2 From the menu that is displayed, select **Explore**. The **Windows® Explorer** window is displayed.
- 3 Navigate to the location of the Quick Viewer.
- 4 Double-click the `autorun.bat` file. See [“Starting automatically”](#) on page 1-5.

Configuring auto-launch

This section describes how to configure the Quick Viewer to start automatically.

Steps for this task

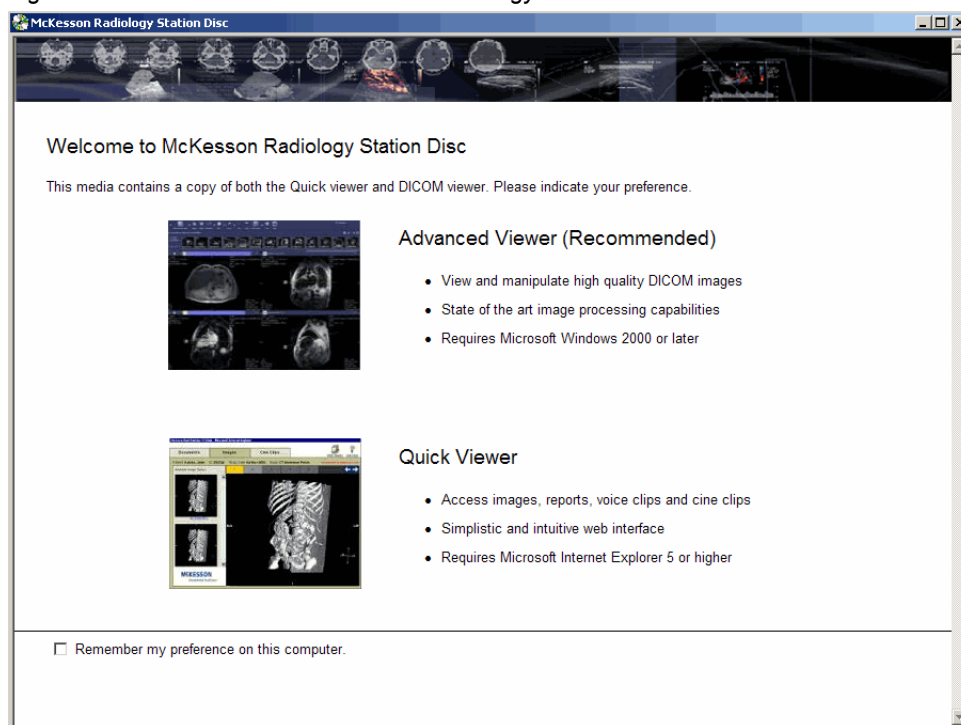
To configure the Quick Viewer to start automatically:

- 1 Depending on whether the viewer is started from removable media or a folder, perform one of the following steps:

Viewer is started from...	Do this...
Removable media	<ul style="list-style-type: none"> • Insert the removable media into the appropriate workstation drive.
A folder	<ol style="list-style-type: none"> 1 Perform steps 1 to 3 of “Starting the viewer manually” on page 1-7. 2 Double-click the <code>autorun.bat</code> file.

The **Welcome to McKesson Radiology Station Disc** window is displayed.

Figure 1-1 The Welcome to McKesson Radiology Station Disc window



- 2 Select the following check box at the **Welcome to McKesson Radiology Station Disc** window:
 - **Remember my preference on this computer**
- 3 Click **Quick Viewer**. The Quick Viewer now starts automatically.

Switching viewers

You may start the Advanced Viewer from the Quick Viewer, if both viewers were included with the study images and [patient documentation](#).

Steps for this task

To switch to the between the viewers (if the Quick Viewer is the current viewer):

- 1 Click the **Return** icon on the main [toolbar](#).



The Quick Viewer and any open studies are closed. The **Welcome to McKesson Radiology Station Disc** window is displayed. See *Figure 1-1* on page 1-8.

- 2 Click **Advanced Viewer (Recommended)**. The Advanced Viewer is started and the [Study List](#) is displayed.

Note: If the removable media or folder contains only one study, the study is automatically displayed, instead of the Study List. See [“Opening studies”](#) on page 2-3.

Troubleshooting

This section describes how to troubleshoot the Quick Viewer.

In this section

This section contains the following topics:

Topic	See page
Folders and files included with the Quick Viewer	1-10
Wrong viewer is started	1-12
Cannot start the viewer	1-12
Opening Online Help	1-14

Folders and files included with the Quick Viewer

The following table details the files and folders included with the Quick Viewer:

File or folder name	Type	Details
data	Folder	<ul style="list-style-type: none"> Contains the images and patient documentation that may belong to one or more patient studies. It also contains the Quick Viewer software.
autorun.inf	File	<ul style="list-style-type: none"> Instructs the Microsoft Windows® operating system (OS) how to display the content on the media when the media is inserted into the computer. Directs the OS to run the <code>autorun.bat</code> file.
autorun.bat	File	<ul style="list-style-type: none"> Starts the Quick Viewer. Enables you to manually start the Quick Viewer. See “Starting the viewer manually” on page 1-7.
CommonLaunch.bat	File	<ul style="list-style-type: none"> Displays the Welcome to McKesson Radiology Station Disc window. Enables you to reset the viewer configured to start automatically. See “Resetting the preferred viewer configuration” on page 1-12.
DiskView.htm	File	<ul style="list-style-type: none"> A Web page used by the Quick Viewer.
QuickViewer.txt	File	<ul style="list-style-type: none"> Included whenever the Quick Viewer is included.

File or folder name	Type	Details (Continued)
Readme1st_Files	Folder	<ul style="list-style-type: none">• Not used, and may not be copied to the media or folder.

Wrong viewer is started

If both viewers are included with the study images and patient documentation, you may configure one of the viewers to start automatically. See “[Configuring auto-launch](#)” on page 1-8.

If you need to start the other viewer, you need to reset this preferred viewer configuration.

For example, currently the Quick Viewer is your preferred viewer. However, you want to start the Advanced Viewer.

Resetting the preferred viewer configuration

To reset the viewer configured to start automatically:

- 1 Start the Quick Viewer.

To start the viewer...	Do this...
Automatically	<ol style="list-style-type: none"> 1 Insert the removable media into the appropriate workstation drive. 2 Display all the workstation drives. 3 Right-click the drive on your workstation that corresponds to the media you inserted. For example, if you inserted a CD, right-click the CD drive on your workstation. 4 From the menu that is displayed, select Explore. A window is displayed that lists the contents of the removable media.
Manually	<ul style="list-style-type: none"> • Perform steps 1 to 3 of “Starting the viewer manually” on page 1-7.

- 2 Double-click the filename `CommonLaunch.bat`. See “[Folders and files included with the Quick Viewer](#)” on page 1-10. The **Welcome to McKesson Radiology Station Disc** window is displayed.
- 3 Click the viewer you want to start. The viewer is started and the [Study List](#) or study is displayed. See “[Opening studies](#)” on page 2-3.

The next time you start the Quick Viewer, you may select which viewer to use.

Cannot start the viewer

When you insert the removable media into the appropriate drive, a viewer is started, or you may choose a viewer to start.

However, if your workstation does not recognize the `autorun.inf` file included on the media, no viewer is started and you may not select one to start. See “[Folders and files included with the Quick Viewer](#)” on page 1-10. In this case, you need to manually start Quick Viewer.

Manually starting the viewer from removable media

To manually start the viewer from removable media-example workflow (Windows® 7):

- 1 Insert the removable media into the appropriate workstation drive.
- 2 Click **Start**, and then click **Computer**. The **Computer** window is displayed. It lists all the workstation drives.
- 3 Right-click the drive on your workstation that corresponds to the media you inserted.
For example, if you inserted a CD, right-click the CD drive on your workstation.
- 4 From the menu that is displayed, select **Install or run program**.

The **Welcome to McKesson Radiology Station Disc** window is displayed. See *Figure 1-1* on page 1-8.

- 5 Click **Quick Viewer**. The Quick Viewer starts.

Opening Online Help

You can open the Online Help included with the Quick Viewer from any of the study pages.

To open the online Help:

- 1 Click the **Help** icon on the main toolbar.



- 2 The online Help is displayed in a separate window.

Chapter 2 - Viewing studies

This section describes how to open and view study images, patient documentation, and cine clips using the Quick Viewer.

In this section

This section contains the following topics:

Topic	See page
Using the Study List	2-2
Viewing images	2-4
Viewing patient documentation	2-8
Viewing cine clips	2-12
Printing reports, images and patient documentation	2-13

Using the Study List

This section describes how to open studies, listed in the [Study List](#).

In this section

This section contains the following topics:

Topic	See page
Overview of the Study List	2-2
Displaying the Study List	2-2
Opening studies	2-3

Overview of the Study List

The Study List lists the patient studies that are stored on the removable media or in the folder.

Figure 2-1 Study List

Patient	Study Date	Study Description	Modality
Anke, Rsn	1997-06-27 12:30	A9, A90	OT
Anonymous	2000-05-08 16:02	CR	CR

Study List containing patient studies

The Study List displays the following information about the available studies:

Information	Description
Patient name	Lists the name of the patient.
Study Date	Lists the date and time when the study was performed.
Study Description	Lists the procedure type of the study.
Modality	Lists the attribute of the equipment used to capture the study images.

The Study List is displayed only if the removable media or folder contain multiple studies for one or more patients. Otherwise, the study is displayed.

Displaying the Study List

This section describes how to display the Study List.

The Study List is displayed only when the removable media or folder contain more than one study.

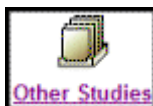
The Study List may be displayed:

- Automatically
- Manually

Steps for this task

To manually display the Study List:

- In an open study, click the **Study List** icon on the **main toolbar**.



The Study List is displayed.

Opening studies

Depending on the contents of the removable media or folder, a study or the Study List is displayed:

If the removable media or folder contains...	Then...
A single study	<ul style="list-style-type: none"> • The study is displayed. No further action is required.
Multiple studies	<ul style="list-style-type: none"> • The Study List is displayed.

Steps for this task

To open a study from the Study List:

- 1 If it is not already displayed, display the Study List. See “[Displaying the Study List](#)” on page 2-2.
- 2 Click the study you want to open.

Depending on its contents, the study is displayed as follows:

If...	Then...
Study contains patient documentation	The Documents page is displayed. See “ Viewing patient documentation ” on page 2-8.
Study contains images, but no patient documentation	The Images page is displayed. See “ Viewing images ” on page 2-4.
Study contains cine clips, but no patient documentation or images	The Cine Clips page is displayed. See “ Viewing cine clips ” on page 2-12.

Viewing images

This section describes how to view study images using the Quick Viewer.

In this section

This section contains the following topics.

Topic	See page
Displaying series	2-4
Viewing images in a series	2-5
Viewing an image in its original size	2-6
Indication that images are not for diagnosis	2-7

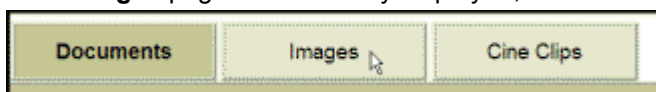
Displaying series

If a study contains multiple series, thumbnail images are displayed in the **Thumbnail Preview area** on the **Images page**. Each thumbnail image represents a **series**.

Steps for this task

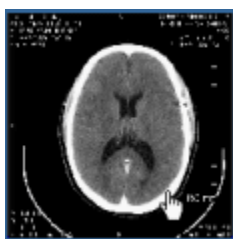
To select and display a series:

- 1 If the **Images** page is not already displayed, click the **Images** tab.



The **Images** page is displayed. See *Figure A-5* on page A-8.

- 2 In the **Thumbnail Preview** area, click the thumbnail that represents the series you want to view.



The series is displayed in the viewport. See **“Viewports”** on page A-11.

Viewing images in a series





The **Series Navigation bar** enables you to move through the **series** that is currently displayed in the **viewport**. Using the Series Navigation bar, you may perform the following tasks:

- View the next or previous **image**
- Jump to a specific image in the series
- Scroll through the entire series

Steps for this task

To navigate through a series:

- 1 Display the series you want to view. See “**Displaying series**” on page 2-4.
- 2 Perform the following steps:

To...	Do this...
View the next or previous image	<ul style="list-style-type: none"> • Click the Next arrow to view the next image  • Click the Previous arrow to view the previous image  <p>Note: Depending on your mouse, you may use its scroll wheel to view the next or previous image.</p>
Jump to a specific image in the series	<ul style="list-style-type: none"> • Click the chit that represents the image.  <p>If the chit represents a group of images within the series, click the chit to display the first image within the group, and then scroll to view the rest of the images.</p>
Scroll through images in the series	<ul style="list-style-type: none"> • Click the chit that represents the first image you want to view, and then drag the mouse pointer across the bar. 

Viewing an image in its original size

Study images displayed in the Images page are resized to fit the viewport. However, an image may be displayed in its original size, in a separate window. This window covers the full screen.

Figure 2-2 Image in a separate window



Displaying an image in its original size

To display an image in its original size:

- 1 Select an image from a series. See “[Viewing images in a series](#)” on page 2-5.
- 2 On the Series Navigation bar, click the **Show original image** button.



The image is displayed in its original size, in a separate window. See [Figure 2-2](#) on page 2-6.

Closing the separate window

To close the separate window:

- Click the **Close** button at the top right corner of the window.



Indication that images are not for diagnosis

Text overlay displays details about an image, and the study and patient to which the image belongs.

The following text overlay is always displayed on each image, to indicate that the images cannot be used for diagnosis:

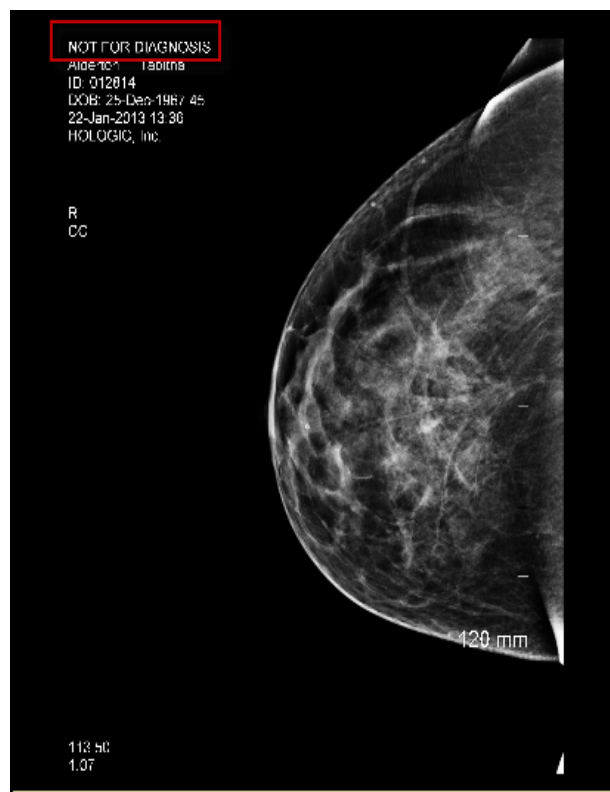
- NOT FOR DIAGNOSIS

The following table describes the location of the overlay on each image:

Modality type	Location
MG (mammography)	<ul style="list-style-type: none">• For left image laterality, top right corner of the viewport• For right image laterality, top left corner of the viewport <hr/> Note: Laterality refers to the specific left or right breast, not the patient orientation.
Other	Top right corner of the viewport

Note: This text overlay cannot be hidden or configured in any way.

Figure 2-3 NOT FOR DIAGNOSIS text overlay



Viewing patient documentation

This section describes how to view **patient documentation** using the Quick Viewer.

In this section

This section contains the following topics:

Topic	See page
Viewing patient information	2-8
Viewing study information	2-9
Viewing reports	2-10
Playing voice clips	2-11

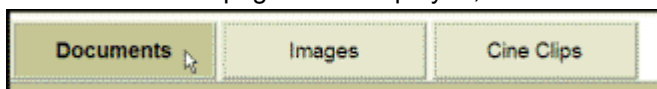
Viewing patient information

The Patient Information page contains information about the patient associated with the open study.

Steps for this task

To display the Patient Information page:

- 1 If the **Documents** page is not displayed, click the **Documents** tab.



The **Documents** page is displayed. See *Figure A-3* on page A-4.

- 2 In the **Documents** page sidebar, click **Patient Information**.



The **Patient Information** page is displayed in the **Document display area**.

Figure 2-4 Patient Information page

Patient Information		Name: 1a-MIG-FE-W2K3-1, StudyCR
		DOB: 1940-02-19
		ID: 100015
Study Priority	Routine	
Gender	Male	
Pregnancy Status	N/A	
Age at the time of study	66	
Patient Class	Unknown	

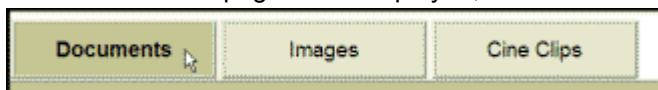
Viewing study information

The Study Information page displays information about the selected study.

Steps for this task

To display the Study Information page:

- 1 If the **Documents** page is not displayed, click the **Documents** tab.



The **Documents** page is displayed. See *Figure A-3* on page A-4.

- 2 In the **Documents** page sidebar, click the **Study Information** folder for the study you want to view:

Folder icon	Description
	Display the study information for the open study.
	Open another study belonging to the same patient, and display its study information. Note: When you click this icon, it is displayed with an asterisk.

The **Study Information** page is displayed in the **Document display area**.

Figure 2-5 Study Information page.

Study Information		Name: Protocol, Display DOB: 1950-06-12 ID: dpstage002 Study Date: 2000-11-20 13:19
Study Priority	Routine	
Study Status	Reported	
Gender	Unknown	
Pregnancy Status	Unknown	
Age at the time of study	50	
Patient Class	Unknown	
Body Region	Unknown	
Reported By	Jia Sun	
Reported On	2007-09-07	
Accession Number	DPSTAGE00032601	
Study ID	4	

Viewing reports

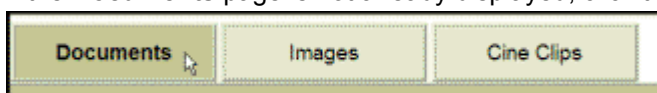
The reports associated with a study are listed on the [Documents page](#). The method used to view the report depends on the format in which it was created:

If...	Then...
Created in ASCII or RTF format	Viewed in the Web browser.
Created in Portable Document Format (PDF)	Viewed in Adobe Reader® Note: The Adobe Reader® may be downloaded from the web site at: www.adobe.com

Steps for this task

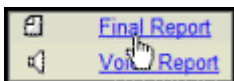
To display a report:

- 1 If the **Documents** page is not already displayed, click the **Documents** tab.



The **Documents** page is displayed. See [Figure A-3](#) on page A-4.

- 2 In the **Documents** page sidebar, click the link to the report you want to view.



The report is displayed in the [Document display area](#).

Figure 2-6 Final Report

Final Report MR Brain Show Printer-Friendly Version	Name: Protocol, Display DOB: 1950-06-12 ID: dpstage002 Study Date: 2000-11-20 13:19
Clinical Indication: . Technique: Sagittal T1, axial proton density and T2, coronal fast-spin echo T2. Contrast: Without. Midline: Central. Ventricles: The ventricles are normal in shape, size, and position. Findings: The brain shows normal anatomy and signal intensity. There is no sign of tumor, infarct, or hemorrhage. The white matter structures have normal signal intensity, with no sign of ischemic change or demyelination. No atrophy is present. The extraaxial spaces are normal. The major intracranial vessels show normal caliber and flow voids. The orbits, sinuses, and skull base are normal. Summary: Normal MRI of the brain. In particular, no focal abnormality is present.	

Playing voice clips

The voice clips of an open study are listed on the [Documents page](#). Voice clips are stored on the removable media or folder as [WAV](#) files.

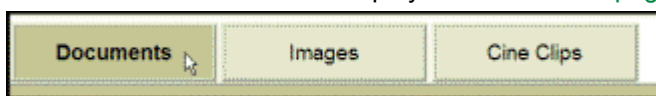
To play voice clips, a media player needs to be installed on the workstation. For details on the supported media players, refer to the *McKesson Radiology™ Applications Requirements Guide* or contact your system administrator.

For details on obtaining a media player, see “[Cine Clips page](#)” on page A-13.

Steps for this task

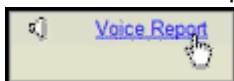
To play a voice clip:

- 1 Click the **Documents** tab to display the [Documents page](#).

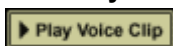


The **Documents** page is displayed. See [Figure A-3](#) on page A-4.

- 2 In the **Documents** page sidebar, click the link to the voice clip you want to play.



- 3 Click **Play Voice Clip**.



The voice clip is played in the appropriate media player. To close the voice clip, close the media player.

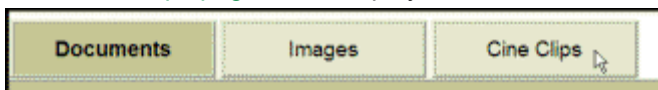
Viewing cine clips

The cine clips associated with a patient's study are listed on the [Cine Clips page](#). The [cine clip](#) format is specified when you include it with an exported study.

Steps for this task

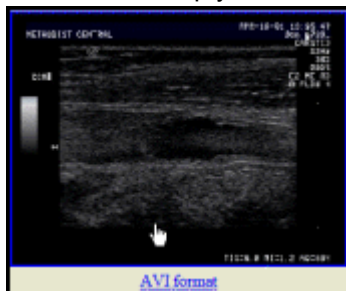
To view a cine clip:

- 1 If the [Cine Clips page](#) is not displayed, click the **Cine Clips** tab.



The **Cine Clips** page is displayed. See [Figure A-8](#) on page A-13.

- 2 Click the cine clip you want to view.



The cine clip is displayed using the default media player, according to the file format.

Printing reports, images and patient documentation

This section describes how to print reports, images and patient documentation.

In this section

This section contains the following topics:

Topic	See page
Printing reports	2-13
Printing images and patient documentation, via the Web browser	2-14

Printing reports

Reports that are displayed in a Web browser may be printed from Quick Viewer.

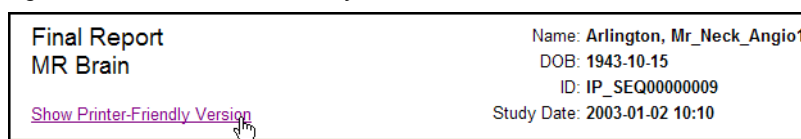
Note: To print a report displayed in Adobe Reader®, refer to the online Help within Adobe Reader®.

Steps for this task

To print a report:

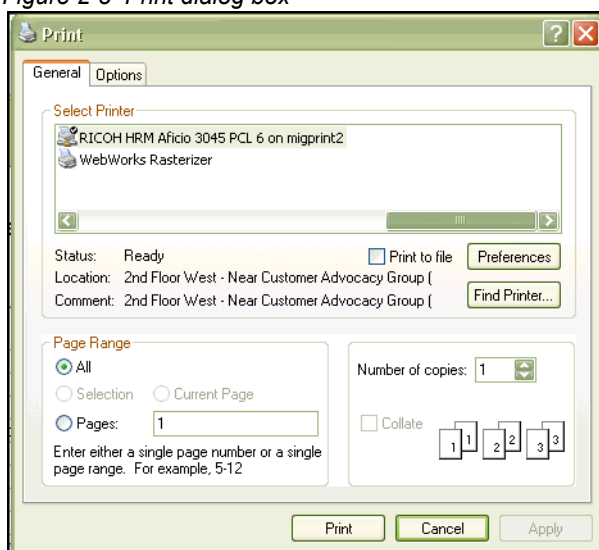
- 1 Display the report you want to print. See “[Viewing reports](#)” on page 2-10.
- 2 In the document display area, click the **Show Printer-Friendly Version** link.

Figure 2-7 Show Printer-Friendly Version link



A print preview of the report is displayed along with the **Print** dialog box.

Figure 2-8 Print dialog box



- 3 In the **Select Printer** section, select the appropriate printer.
- 4 Click **Print**. The selected document has been printed.

Printing images and patient documentation, via the Web browser

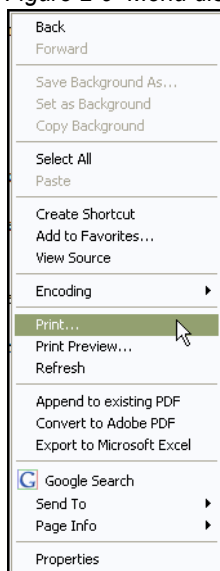
Images and patient documentation that are displayed in a Web browser may be printed from Quick Viewer.

Steps for this task

To print images and patient documentation, via the Web browser:

- 1 Display the image or document you want to print. See one of the following sections:
 - To display an image, see “[Viewing images in a series](#)” on page 2-5.
 - To display patient documentation, see “[Viewing patient documentation](#)” on page 2-8.
- 2 Right-click the image or document, and select **Print** from the menu that is displayed.

Figure 2-9 Menu displayed, after right click on image or document



Note: On the **Images** page, the print option may be listed as **Print Picture**.

The **Print** dialog box is displayed. See *Figure 2-8* on page 2-14.

- 3 In the **Select Printer** section, select the appropriate printer.
- 4 Click **Print**. The selected document is printed.

Chapter 3 - Closing and exiting

This section describes how to close studies and exit the Quick Viewer.

In this section

This section contains the following topics:

Topic	See page
Closing studies	3-2
Exiting the viewer	3-2


Closing studies

This section describes how to close studies.

Closing a study in the Quick Viewer

To close a study:

- In an open study, perform one of the following steps, depending on how many studies are included on the removable media or in the folder:

If the removable media or folder contains...	Then...
A single study	<ul style="list-style-type: none"> Close the Web browser. See “Exiting the viewer” on page 3-2.
One or more studies	<ul style="list-style-type: none"> Click the Study List icon on the main toolbar.  <p>The study is closed and the Study List is displayed.</p>

Note: The Quick Viewer enables you to view one study at a time. When you open another study, the study that was previously open is automatically closed.

Exiting the viewer

To exit the Quick Viewer, close the Web browser.

Closing the Web browser

To close the Web browser:

- In the top right corner of the Web browser window, click the **Close** button.



The Web browser is closed.

Chapter 4 - Customizing the viewer

This section describes how to customize pages displayed by the Quick Viewer.

Overview of customization

The Quick Viewer uses Cascading Style Sheets (CSS). The CSS specify the following characteristics of the pages displayed by the viewer:

- Font styles
- Font sizes
- Background color

Your local system administrator may customize the appearance of the Quick Viewer pages by modifying the CSS.

Note: The CSS file should be modified only by personnel familiar with [HTML](#) tags and CSS concepts.

Steps for this task

To customize the appearance of the Quick Viewer pages:

- 1 At the McKesson Radiology™ server, open the Quick Viewer CSS file `style.css` using a text editor, such as Windows® Notepad.

The file is located at the following path:

```
<ALI_SITE_CONFIG_PATH>\MIDiscView\data\ali\HTML\
```

Note: <ALI_SITE_CONFIG_PATH> represents the folder where McKesson Radiology™ configuration files are stored. For more information, contact McKesson Support.

- 2 Modify the appropriate settings.
- 3 Save the CSS file.

Note: Modifications made to the CSS file affect all copies of the Quick Viewer that are exported from McKesson Radiology Station™.

Appendix A - Study pages work area

This section describes the study pages work area components. The patient documentation, images, and cine clips associated with an open study are displayed on the study pages.

In this section

This section contains the following topics:

Topic	See page
About the study pages	A-1
Study page toolbars	A-2
Documents page	A-4
Images page	A-8
Cine Clips page	A-13

About the study pages

Patient documentation and images are displayed on study pages. The study pages are accessed from the [Study Navigation toolbar](#). The following table describes each page and the items it displays.

Page	Description
Documents page	Contains the reports and voice clips associated with an open study. See “Viewing patient documentation” on page 2-8.
Images page	Contains the images of an open study. See “Viewing images” on page 2-4.
Cine Clips page	Contains the cine clips of an open study. See “Viewing cine clips” on page 2-12.

Note: These pages may be displayed only if the study contains the listed content. For example, if no cine clips are included in the open study, the Cine Clips page is not available.

Study page toolbars

This section describes the **toolbars** displayed on the **study pages**.

In this section

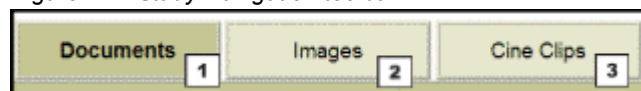
This section contains the following topics:

Topic	See page
Study Navigation toolbar	A-2
Main toolbar	A-3

Study Navigation toolbar

The Study Navigation toolbar is composed of tabs that enable you to display the available study pages for the open study. The toolbar is located in the top left-hand corner of the study pages work area.

Figure A-1 Study Navigation toolbar



The following table describes each tab on the Study Navigation toolbar:

Tab	Description
1. Documents tab	Displays the Documents page. This tab is available if the open study contains patient documentation. See “ Viewing patient documentation ” on page 2-8.
2. Images tab	Displays the Images page. This tab is available if the open study contains images. See “ Viewing images ” on page 2-4.
3. Cine Clips tab	Displays the Cine Clips page. This tab is available if the open study contains cine clips. See “ Viewing cine clips ” on page 2-12.




Main toolbar

The main toolbar is located in the top right-hand corner of the study pages work area.

Figure A-2 Main toolbar



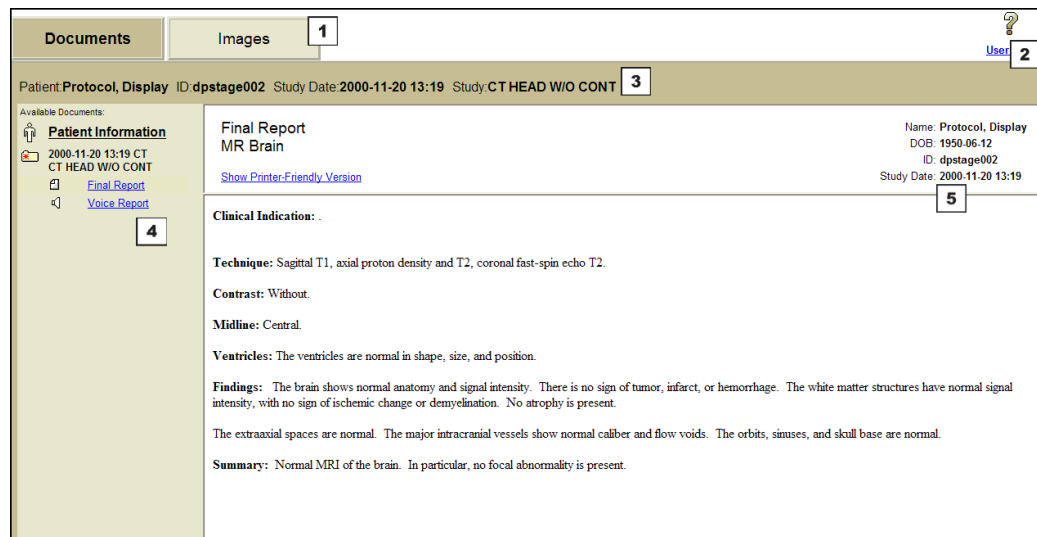
Depending on the contents of the removable media or folder, the main toolbar icons may vary. The following table describes the main toolbar icons:

Main toolbar icon	Description
Return 	Enables you to start a different viewer, if both viewers were included on the removable media or in the folder. See “ Switching viewers ” on page 1-9. Note: This icon is not available if removable media or folder contains a single viewer.
Study List 	Displays the Study List . For details, see “ Using the Study List ” on page 2-2. Note: This icon is not available if the removable media or folder contains a single study.
Help 	Opens the online Help. For details, see “ Troubleshooting ” on page 1-10.

Documents page

The Documents page contains the patient documentation associated with the [open study](#).

Figure A-3 Documents page



The following table describes the Documents page components:

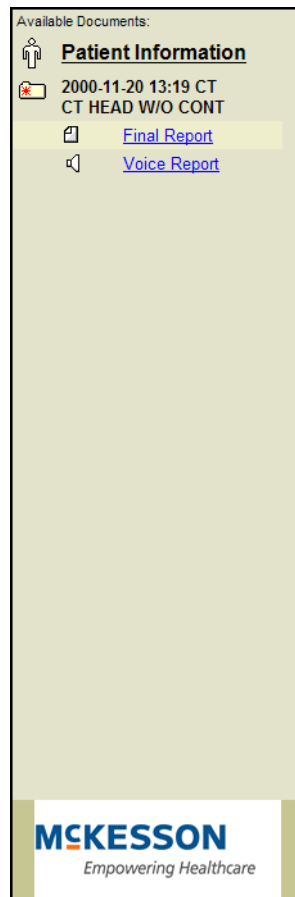
Component	Description
1. Study Navigation toolbar	Enables you to display any of the available study pages. See “Study Navigation toolbar” on page A-2.
2. Main toolbar	Enables you to perform the following tasks: <ul style="list-style-type: none"> Start a different viewer (if available). See “Switching viewers” on page 1-9. Display the Study List (if available). See “Opening studies” on page 2-3. Open the online Help file. See “Troubleshooting” on page 1-10. For details, see “Main toolbar” on page A-3.
3. Study information bar	Lists the following information about the open study: <ul style="list-style-type: none"> Patient name Patient ID Study date Procedure type

Component	Description (Continued)
4. Documents page sidebar	<p>Lists the following documents associated with a patient:</p> <ul style="list-style-type: none">• Patient information. See “Viewing patient information” on page 2-8.• Study information. See “Viewing study information” on page 2-9.• Reports. See “Viewing reports” on page 2-10.• Voice clips. See “Playing voice clips” on page 2-11.
5. Document display area	<p>Displays the selected patient document. For details, see “Viewing patient documentation” on page 2-8.</p>

Documents page sidebar


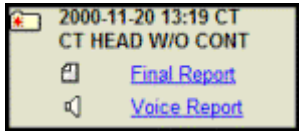
The Documents page sidebar consists of folders. Each folder provides access to patient information, study information, or documentation. The information and documentation available for each study are listed in the Documents page sidebar folders.

Figure A-4 Documents page sidebar



Documents page sidebar folders

The following table describes the Documents page sidebar folders:

Folder	Description
Patient Information folder 	Lists the following patient information: <ul style="list-style-type: none"> • Patient name • Patient ID • Date of birth • Gender • Study priority • Pregnancy Status • Age at the time of study • Patient class
Study Information folder 	Contains the following study information: <ul style="list-style-type: none"> • Treatment • Location • Physician • Identification • Tracking details. <p>See “Viewing study information” on page 2-9.</p> <p>As well, it contains a list of reports and voice clips for the study. The type of documentation available is identified by an icon and a link. See “Viewing patient documentation” on page 2-8.</p>

Images page

This section describes the Images page work area components.

In this section

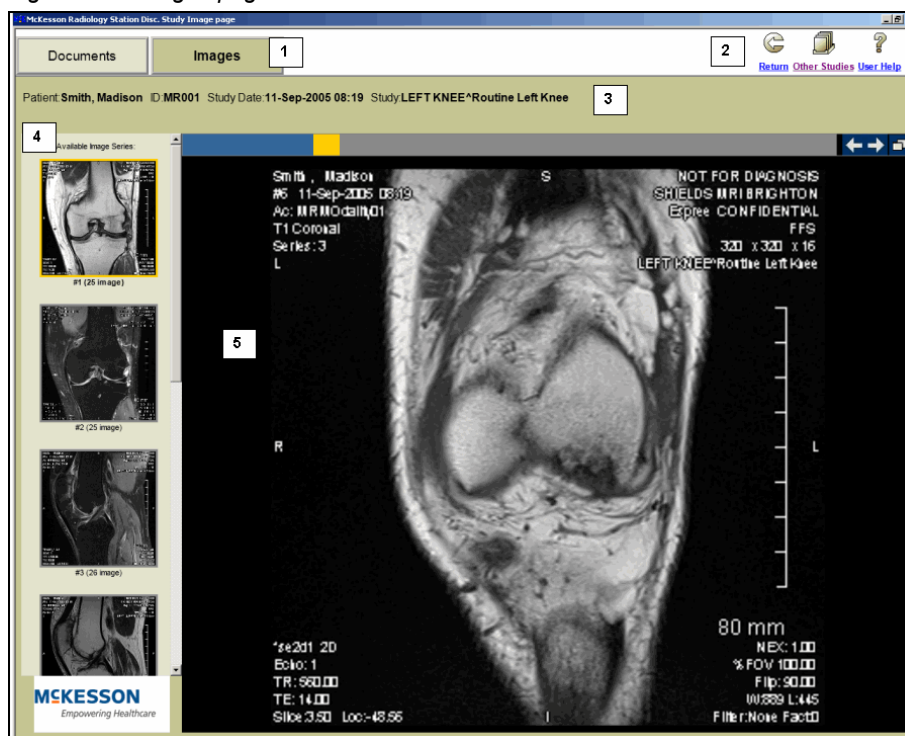
This section contains the following topics:

Topic	See page
Images page work area	A-8
Thumbnail Preview area	A-10
Viewports	A-11

Images page work area

The Images page contains images of the open study.

Figure A-5 Images page



The following table describes the Images page components:

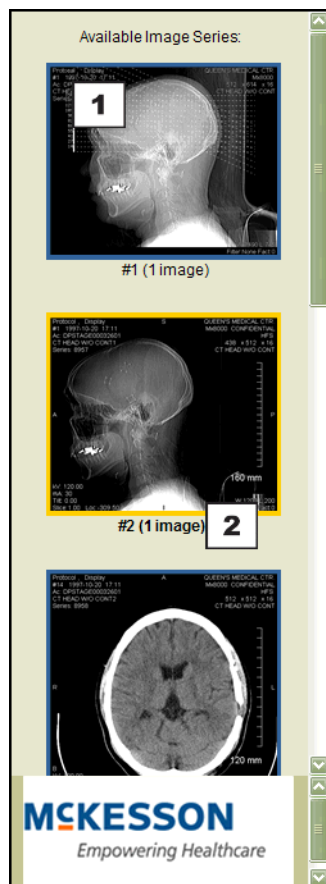
Component	Description
1. Study Navigation toolbar	Enables you to display any of the available study pages. See “Study Navigation toolbar” on page A-2.
2. Main toolbar	Enables you to perform the following tasks: <ul style="list-style-type: none">• Switch to a different viewer (if available). See “Switching viewers” on page 1-9.• Display the Study List (if available). See “Opening studies” on page 2-3.• Open the online Help file. See “Troubleshooting” on page 1-10. For details, see “Main toolbar” on page A-3.
3. Study information bar	Lists the following information about the study: <ul style="list-style-type: none">• Patient name• Patient ID• Study date• Procedure type
4. Thumbnail Preview area	Contains thumbnail images that represent available series in the open study. See “Thumbnail Preview area” on page A-10.
5. Viewport	Displays an available series. See “Viewports” on page A-11.

Thumbnail Preview area

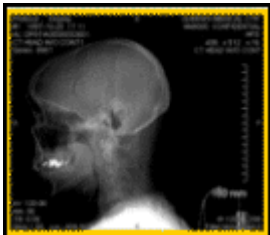
The Thumbnail Preview area contains thumbnail images, which represent the **series** of the open study. Here, you may choose which series to display in the **viewport**. For details, see “**Displaying series**” on page 2-4.

Note: The Thumbnail Preview area is displayed only if the study contains more than one series.

Figure A-6 Thumbnail Preview area



The following table describes the Thumbnail Preview area components.

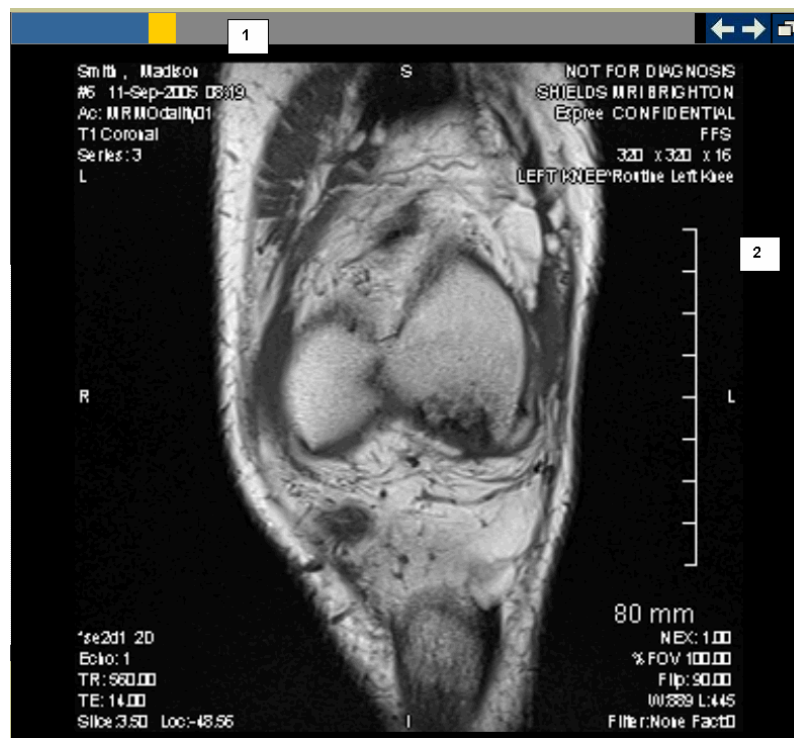
Component	Description
1. Thumbnail 	<p>Displays a preview image of a series. For details on using the thumbnail image to view series, see “Displaying series” on page 2-4.</p> <p>Note: The thumbnail of the series displayed in the viewport has a yellow border.</p>

Component	Description (Continued)
2. Series information #2 (1 image)	Displays the following information about the series: <ul style="list-style-type: none"> Series number Number of images in the series




Viewports

The viewport displays the images of a series. It also contains the navigation tools needed to move through the series.

Figure A-7 Viewport



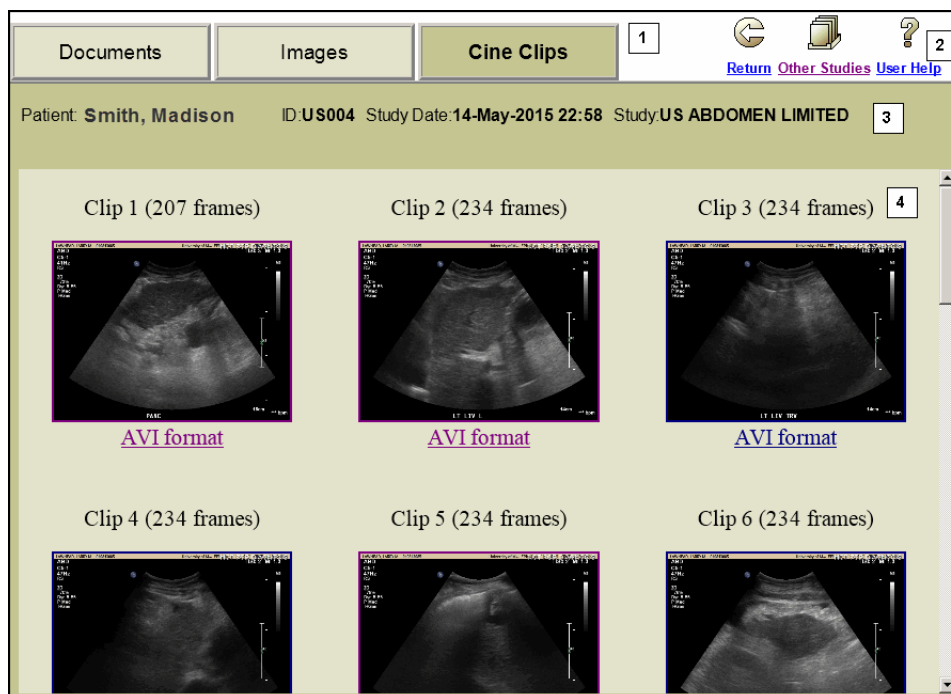
The following table describes the viewport components.

Component	Description
<p>1. Series Navigation bar</p> <hr/> <p>Note: The Series Navigation bar is displayed only for series that contain multiple images.</p> <hr/>	<p>This bar is used to move through a series. The bar consists of the following components:</p> <ul style="list-style-type: none"> Chits A chit may represent one image or a group of two or more images within a series. This depends on the following factors: <ul style="list-style-type: none"> Number of images contained in the series Size of the viewport Screen resolution You can display an image by clicking the corresponding chit. If the chit represents a group of images, click the chit to display the first image within the group, and then scroll through the rest of the images to view them. The chits are highlighted as you page through a series.  <hr/> <p>Note: If the series contains only one image, the chit bar is replaced by the series information. For example, the chit bar is replaced by #2 (1 image).</p> <hr/> <ul style="list-style-type: none"> Navigation arrows The arrows enable you to move through the series, one image at a time.  Show original image icon This icon enables you to view the image in a separate window.  <p>For details on using the Series Navigation bar, see “Viewing images in a series” on page 2-5.</p>
2. Image viewing area	This is the area where the image is displayed.

Cine Clips page

The [Cine Clips page](#) lists the cine clips within an open study. For details on viewing cine clips, see [“Viewing cine clips”](#) on page 2-12.

Figure A-8 Cine Clips page



The following table describes the Cine Clips page components:

Component	Description
1. Study Navigation toolbar	Enables you to display any of the available study pages. See “Study Navigation toolbar” on page A-2.
2. Main toolbar	Enables you to perform the following tasks: <ul style="list-style-type: none"> • Switch to a different viewer (if available). See “Switching viewers” on page 1-9. • Display the Study List (if available). See “Opening studies” on page 2-3. • Open the online Help file. See “Troubleshooting” on page 1-10

Component	Description (Continued)
3. Study information bar	<p>Lists the following information about the open study:</p> <ul style="list-style-type: none">• Patient name• Patient ID• Study date• Procedure type
4. List of cine clips	<p>Provides the following information about the listed cine clips:</p> <ul style="list-style-type: none">• Patient name• Modality• Link to play the cine clip, indicating the cine clip format. Cine clips may be viewed in either AVI or MOV format.

Glossary

annotations

Text, drawings, and drawing with measurements that are added to images. Annotations can be either hidden or displayed.

ASCII

Acronym for the American Standard Code for Information Interchange. ASCII is a code for representing English characters as numbers. Most computers use ASCII codes to represent text, making it possible to transfer data from one computer to another. Text files stored in ASCII format are sometimes called ASCII files.

AVI

Acronym for Audio Video Interleave. AVI is a video format used in exporting cine clips to removable media. The exported AVI video clip can only end up in one of the two supported formats, baseline MJPEG or Windows[®] Video 1. If you choose the Video 1 AVI format the clip can be viewed in Windows Media[®] Player. The MJPEG AVI format and the exported video clip can be viewed in Windows Media[®] Player if the Pegasus MJPEG codec is installed.

CD-R

Stands for CD-Recordable. A type of write-once-read-many (WORM) optical disks to which images can be exported from a study. Users can only record information onto a CD-R once.

CD-RW

Stands for CD-ReWriteable. A type of rewriteable optical disks to which images can be exported from a study. Users can erase previously recorded information and record new information onto a CD-RW.

cine clip

A type of image that contains a sequence of frames. Cine clips are stored AVI or MOV files. You can access cine clips using the McKesson Radiology™ Disc Quick Viewer.

Computed Radiography (CR)

A radiological imaging modality similar to Digital Radiography (DR) and Digital X-Ray (DX).

Computed Tomography (CT)

This imaging modality was developed in the early 1970s. CT is a transverse imaging system that provides cross-sectional views of the body. CT imaging variables include scan time, collimation, slice spacing, algorithm, matrix size, and the use of contrast medium.

DICOM

DICOM stands for Digital Imaging and Communications in Medicine Standard. This standard protocol is intended for communicating medical digital images among printers, workstations, acquisition modules and file servers. It was developed by the American College of Radiology (ACR) and National Electrical Manufacturers Association (NEMA). DICOM is also a part of the developing European standard by CEN, and Japanese standard by JIRA.

DICOM file

Each image is based on its DICOM file. DICOM files are generated by the imaging device and interpreted by McKesson Radiology™, before an image is displayed on the monitor. Each DICOM file is divided into two parts: DICOM header, which contains all the patient and study data associated with the image, and Other Image Data, which conveys the pixel information.

DICOM header

Part of a DICOM file that contains all the patient and study data associated with the image.

Digital Radiography (DR)

A radiological imaging modality that is similar to Computed Radiography and Digital X-Ray (DX).

Digital X-Ray (DX)

A radiological imaging modality that creates digital images directly from projection x-rays. The digital images are produced through a plate sensor placed on the other side of the patient from the X-Ray source. When the imaging plate is scanned with the laser beam in the digitizer, the latent image information is released as visible.

HTM

The extension used for ASCII or RTF report files that are saved in HTML format.

HTML

Acronym for hypertext markup language. It refers to a markup language that is used to create hypertext and hypermedia documents that are viewed in the Web browser. Documents stored in HTML format display the HTM extension.

image

A single scan in a study. Each scan produces an image on the monitor display which are saved to the PACS.

image device

An image capturing device.

JPEG

Acronym for Joint Photographic Experts Group. JPEG usually refers to a file format for the compression of images. JPEG files are lossy compressed, that is to say the exact colors cannot be fully reproduced. This loss of precision is usually invisible to the human eye. The JPEG format is used widely on the Internet.

Magneto-Optical (MO)

A type of optical technology that uses a laser beam to read from and write to a magnetic layer on a disk. This technology uses Magneto-Optical (MO) optical disks. MO disks can be write-once-read-many (WORM) or rewriteable.

Magneto-Optical (MO) disk

A type of disk that uses the Magneto-Optical technology. MO disks can be write-once-read-many (WORM) or rewriteable.

McKesson Radiology™

A DICOM compliant software program used to capture, store, transfer, retrieve, and review digital images. McKesson Radiology™ consists of the following applications and modules: McKesson Radiology PACS Admin™, McKesson Radiology Study Scheduler™, McKesson Enterprise Image Repository Route Manager™, McKesson Radiology QA Manager™, and McKesson Enterprise Image Repository™ Media Manager.

McKesson Radiology™ Disc Advanced Viewer

A portable viewer that allows you to view, modify and manipulate study images, and view study information on a computer that does not have access to McKesson Radiology Station™. This enables you to share studies with other medical staff or to view studies at a different location, such as your home office.

It extends the basic functionality of the McKesson Radiology™ Disc Quick Viewer by supporting DICOM images. Both viewers are provided by the McKesson Radiology™ Disc application.

McKesson Radiology™ Disc media

When you export study images using the McKesson Radiology Station™ Disc Export Tool, you specify the location the study images are copied to. The location specified is the McKesson Radiology™ Disc media. Typically it is a removable media, such as a CD, but it may also be a folder accessible from the workstation that the study images are exported from.

McKesson Radiology PACS Admin™

A system and site management application for maintaining information in the McKesson Radiology™ database.

McKesson Radiology Station™

A DICOM compliant software program used to view multi-modality, grayscale, cross-sectional images.

McKesson Radiology Station™ Disc Export Tool

The goal of the McKesson Radiology™ Disc application is to enable you to share studies and view study images at locations, such as your home, where the McKesson Radiology Station™ application cannot be accessed. To achieve this goal, McKesson Radiology™ Disc provides the McKesson Radiology Station™ Disc Export Tool, integrated with McKesson Radiology Station™. It allows you to copy studies in McKesson Radiology Station™ to removable media or a folder.

McKesson Radiology™ Voice Clips

An application used to add audio messages to a study. Voice clips can be accessed by other users.

modality

An attribute of the equipment used to capture images. For example, all images captured with an ultrasound system are of the Ultrasound Imaging (US) modality.

optical disk

A disk that is written and read by laser. There are three types of optical disks: read-only, write-once-read-many (WORM), and rewriteable.

panning

Moving through an enlarged (zoomed) area.

patient class

Category to which the patient belongs. It is specified in the patient records and study information. The default patient classes in McKesson Radiology™ are: Discharged, Inpatient, Outpatient, Unknown.

patient documentation

Documents that are related to the study and/or the associated patient. For example, text or audio reports and voice clips.

Patient ID

Identification number assigned to the patient. The Patient ID is entered directly in McKesson Radiology™, or received from a HIS/RIS.

PDF

Acronym for Portable Document Format, a file format developed by Adobe® Systems. The PDF fully captures the formatting information of the document to which it is applied, regardless of the application in which the document was produced. The PDF makes it possible to send formatted documents that are produced in different applications, and have them appear on the recipient's computer as originally intended. PDF files can be viewed using Adobe Reader® which is available at no cost.

picture archiving and communication system (PACS)

An information system used to receive, store, retrieve, display, and distribute medical images.

procedure type

The type of procedure performed, for example, Obstetric or Kidney. Sometimes referred to as exam type.

Projection X-Ray

The original radiology scanning device. Projection x-ray produces images through the projection of x-rays directly through a patient onto a flat receptor. For historical reasons, the output of projection x-rays is commonly referred to as plain film.

Radiologist

User role for individuals who interpret images within a study to produce a diagnosis.

Referring Physician

A physician who refers patients. Referring physicians may also review patient studies.

report

A report is a document, associated with a specific study or patient, containing information about the perceived medical condition of the patient at a particular point in time.

RTF

The extension used for documents stored in rich text format. RTF text files make it possible to transfer the original format of a document, for example font styles and paragraph indents, from one software application to another.

series

A grouping of related images within a study. For example, images may be related spatially, in terms of the imaging technique used, or the session during which they were created.

study

A group of images captured by an imaging device and associated with a patient. Sometimes called an exam.

Study List

A list of studies displayed by the Quick Viewer. The Study List lists studies and displays information about the studies and the patients associated with them. Users can open studies from the Study List.

Technologist

User role for individuals who capture images for new studies. They may also write preliminary reports and make initial image modifications.

toolbar

A collection of icons that represents application features.

Ultrasound Imaging (US)

This modality is also called Ultrasound Scanning or Sonography. Obstetric medicine relies heavily on Ultrasound scanning to provide images of the fetus and uterus.

viewport

A panel on the screen that holds a series of images.

voice clip

An audio message that is created using McKesson Radiology™ Voice Clips. Voice clips are attached to studies and can be accessed. Voice clips are stored as WAV files.

WAV

The extension used for digital audio data files such as voice clips.

window

A panel on the computer screen.

Window/Level

Image processing term. Parameters that are used to adjust the brightness and contrast of an image. They define how the captured image intensities will be displayed on the computer monitor. Level controls the brightness of the image and Window controls the contrast. All image points with intensities outside of the range this is defined by Window/Level will be displayed black, if they are too dark, or white if they are too bright.

Windows Media® Player

Used to view cine clips and play voice clips stored on the McKesson Radiology™ Disc media.

X-Ray Angiography (XA)

A radiological imaging modality that creates digital images (called angiograms) of the blood vessels. It is used to diagnose blockages and other blood vessel problems.

X-Ray imaging

A type of irradiation used for imaging purposes that can penetrate most substances except heavy metals. X-ray imaging is the most common imaging technique used in clinical practice.

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