



Using Media to Enhance Simulation




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Welcome to the
2010 National Sun Meeting!


Using Media to Enhance Simulations
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Using Media to Enhance Simulation



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Learning Objectives

Upon completion of this session, you will be able to:

1. Define what media means.
2. Give 3 examples of media that can be displayed on Laerdal simulators.
3. Identify 3 sources to gather media files.
4. Reference the learner material to check compatible file types.
5. Demonstrate how to import media files to the simulator software.
6. Demonstrate how to display media files on the patient monitor.
7. Summarize the steps for recording a vocal sound.
8. Recall best practices in collecting, transferring, and using media.

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Media

Virtual Moulage

- Media files are used in simulation to enhance the reality of the experience.
- Existing files are imported and then displayed on the simulator's patient monitor


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Media Types

- **Pictures** (x-ray, wounds, skin conditions, injuries)
- **Video** (neurological signs and pathology, breathing patterns)
- **Documents** (lab results, radiology reports)
- **Learning materials** (reference material and rationale)
- **Vocal sounds** (pre-recorded sound clips played as the simulator's voice)


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Collecting Media

- Download from internet
- Access from patient records (HIPAA Compliant)
- Retrieve from learning support materials (some textbooks include media files)
- Create your own
 - Digital camera
 - Digital video recorder
 - PC

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Sources to Gather Media

Websites

- Vocals
 - <http://www.wavsource.com>
 - <http://wavplanet.com/>
 - <http://audiosparx.com>
- Images (faces, x-rays, etc...)
 - <http://images.google.com>
 - <http://istockphoto.com>
 - <http://www.nlm.nih.gov/medlineplus>
 - <http://www.medications.com>
- Video
 - <http://proficientprocedures.com>
 - <http://www.medicalvideos.us>

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Media File Types

- Pictures
 - *.jpg
 - *.jpeg
 - *.bmp
 - *.gif
 - *.tiff
- Documents
 - *.htm
 - *.html
 - *.txt
- Video
 - *.avi
 - *.mpg
 - *.mpeg
 - *.wmv
- Audio
 - *.wav

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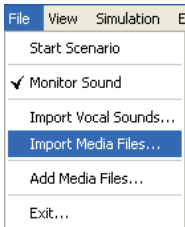
Start your Computers



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Importing Media

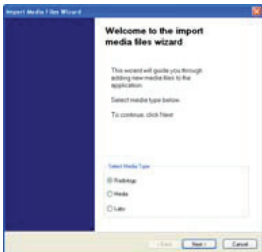
- From the GUI, click file then select
 - Import Media
 - Import Vocal



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Importing Media

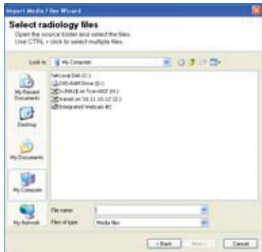
- Step 1**
 - Select destination folder



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Importing Media

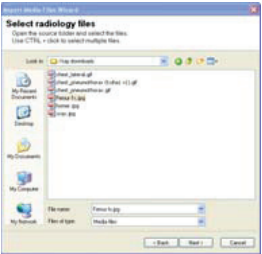
- Step 2**
 - Find the media file on your computer
 - Save it somewhere you can find it!



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Importing Media

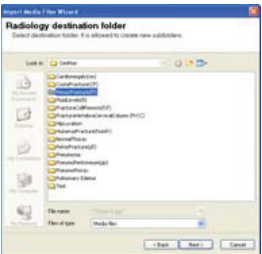
- **Step 3**
 - Select file or multiple files to be imported
 - Hint: these are the files you collected or downloaded



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Importing Media

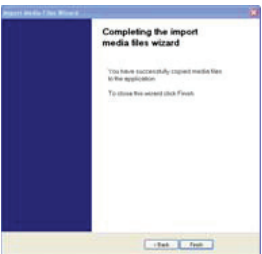
- **Step 4**
 - Select the sub-folder that you want to permanently save this file in
 - Example: Femur fracture images saved in folder named "femur..."



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Importing Media


- **Step 5**
 - The file has now been saved in the correct location thanks to the wizard
 - You can now display the media



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Displaying Media on the Patient Monitor

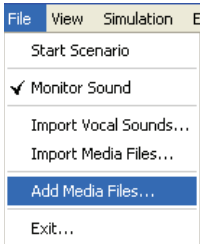
- Media appears on the patient monitor



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Displaying Media

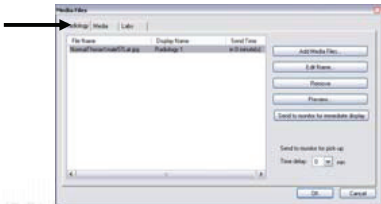
- From the GUI click file then "Add Media Files..."
- "Add..." really means add to the patient monitor; read **display**



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Displaying Media

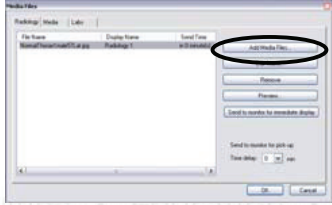
- Step 1**
 - Select Media type by clicking on tab



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Displaying Media

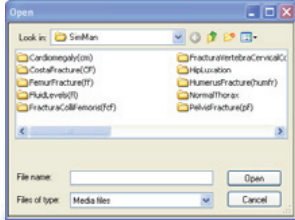
- **Step 2**
 - Click "Add Media Files"



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Displaying Media

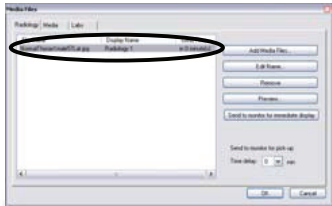
- **Step 3**
 - Select file from folder



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Displaying Media

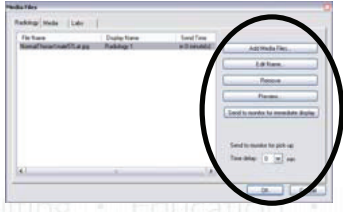
- **Step 4**
 - Select file from the queue by clicking



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Displaying Media

- **Step 5**
 - Select from options to display

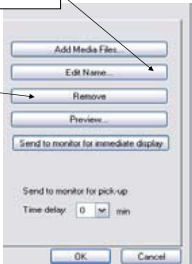


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Displaying Media

Allows operator to change displayed name

Remove file from queue

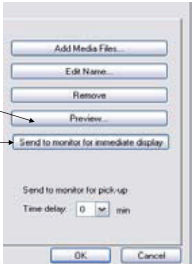


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Displaying Media

Allows the operator to see the image before it is sent to the patient monitor

Send for immediate display at the patient monitor



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Displaying Media

Time delay before file is available to student

Send to monitor, but don't display
This requires the student or participant to retrieve at the monitor

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Recording a Vocal Sound


- From the **Start Menu** in Windows XP, select **All Programs-Accessories-Entertainment-Sound Recorder**.
- The default sound recorder in Vista does not record in WAV format.

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Recording a Vocal Sound

- Click on red button to begin recording
- Click stop to end recording
- Click on play to check the sound clip
- Click File-Save and name the file

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Summary

- Media can increase realism and make your scenario set-up more efficient
- Using media is easy and fun
- Consider fair use laws when using images from the internet and public domains
- Consider patient confidentiality when using media from actual patient records

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Next Steps



- Practice....
- Set realistic goals
- Develop an action plan
- Faculty enrichment/Continuing Education/Staff Development
- Budget for formal training
 - Time: Hands-on time with Simulator
 - Financially: Custom training with Simulation Experts
- Networking
- Set time lines and realistic goals

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What Else Does Laerdal Have to Offer..

<p>Introductory Courses</p>  	<p>Teaching Scenarios</p> 	<p>Custom Education</p> 
<p>Courseware</p> 		

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