

Digital Photography

HOW ORPHEUS SOLVES DIGITAL PHOTOGRAPHY WORKFLOW

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Centralized Workflow for Digital Medical Photography

Digital Medical Photography is a specialized area that focuses on the documentation of the clinical presentation of patients, medical and surgical procedures and specimens from autopsy. The photographs are used in clinical documentation, research, publication and teaching.

The main clinical use cases that involve digital photography are:

1. **Plastic Surgery** – document pre, planning and post procedure results
2. **Pre-surgical documentation** – document the state of the patient or body part to explain reasons for specific care path.
3. **Pathology and Autopsy** – document the autopsy procedure or manage pathology slides.
4. **Dermatology** – total body photography, dermatoscope images for melanoma screening, mole or psoriasis follow up
5. **Wound Care** – in extended care facilities to document pre-, intra and post hospitalization wounds, bed and diabetic ulcers.
6. **Burn Units** – document the status and treatment results of burns.



Workflow for Digital Image Capture

Digital image capture is usually done using a tripod mounted high-end digital camera. In the pathology lab, digital image capture may be done directly from the digital microscope.

However the pervasive use of mobile devices, the camera resolution capabilities and the implementation of bring your own device (BYOD)

it is an inevitable fact that mobile images taken by clinicians or even by the patients (or their caregivers) are a valid source of medical imaging.



Advantages of a Centralized Approach

The advantages of a centralized clinical media management platform include:

- Instant access from anywhere, anytime both for uploading images and reviewing them.
- Standardized approach to documentation and accessibility for clinical diagnostics and reporting.
- Minimal ongoing costs to capture and store thousands of photographs.
- Secure storage, access controls and auditing that enhance patient privacy.
- Single point of integration with enterprise systems such as electronic medical record (EMR) and PACS.

How Orpheus Improves Digital Photography Documentation Workflow

The Orpheus System suite of image and video capture devices coupled with the Orpheus Central Server provide a standard, secure and accurate image capture and workflow solution.

The Orpheus System ensures all images are properly associated to the patient record and provides a unified view of all the patient's digital photographs.

The web enabled user interfaces enable clinicians to gain a longitudinal view of the patient's digital photography library and perform image editing, clinical reporting and sharing of data from a single application.

The solution provides a standard workflow both at the point of care capture and post-capture, to add notes and tags to facilitate categorization of images, searches and analytics.

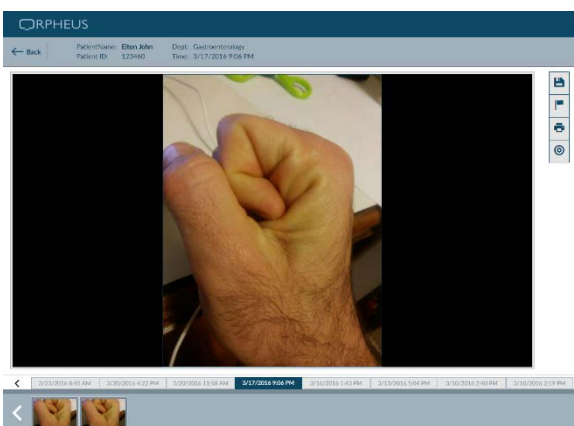
Image Capture Solutions

- Mobile image capture – secure, accurate, anywhere and anytime image, video and audio capture. Standard workflow to add notes and tags to facilitate categorization of images.
- Desktop application capture – simply drag and drop the images, files and videos using a desktop widget and immediately upload to the patient
- Direct connection to digital camera, digital microscope and other video sources – record the autopsy session, take snapshots from the digital microscope or directly from the camera. The videos and images go directly to the patient's record.

Sharing and Taking Action

The Orpheus System has bi-directional integration with the EMR and PACS/VNA to:

- Automatically populate patient and procedure demographics using HL7 (ADT, Order) and DICOM Modality Worklist
- Automatically send results using HL7 and DICOM standards – you can trigger workflow events and get notifications in case of an urgent need to review an image.
- Export images and reports in standard HL7 ORU to the EMR, including all the notes and tags and links to images and videos.
- Store in VNA/PACS for long term archive and enterprise access from a universal viewer.



Web based client application for post-procedure workflow



Android and iOS mobile app for image, video and audio capture and review