

Access to Video Images of Swallowing & Voice in OMR

The Problem:

Lack of access via WebOMR to Videoswallow and Laryngeal Videostroboscopy images made it difficult for attending physicians to read these exams in order to provide a medical diagnosis. Referring doctors and PCP's only had access to written reports and were unable to view these images stored within workstations that were not integrated into PACS or Centricity Web.

Aim/Goal

1. To integrate digital video images of swallowing evaluations and vocal fold examinations into PACS for viewing by referring physicians and PCP's.
2. To improve the workflow for Attending Radiologists and Otolaryngologists when reading these examinations to provide a medical diagnosis.
3. To improve patient and family education about swallowing disorders

The Team

The Enterprise PACS Team – Sue Rathbone, Phil Purvis & Lenny Markowitz
Cynthia Wise Wagner, MS, CCC-SLP and members of the Voice, Speech & Swallowing Service

The Interventions

- Presented Proposal to Enterprise PACS committee
- Purchased DICOM Modules for Each Swallowing & Voice Workstation
- Used Grant Funds to Upgrade Workstations
- Coordinated with Radiology PACS & Enterprise PACS to upload and store Video clips of Swallowing Ability and Voice Production, and to Provide Access to these images in Web OMR

Lessons Learned

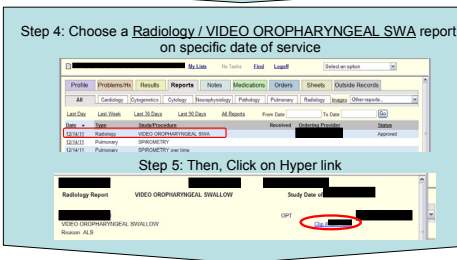
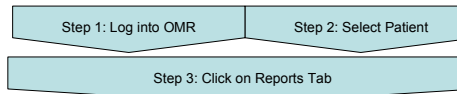
- SLP's report with summary and recommendations is located in the Notes section which can not include any still or moving images or hyperlinks
- Vocal Fold Image Data in Enterprise PACS is "pushed," creating the possibility of user error in data entry which might result in images not showing in Centricity Web via WebOMR
- Vocal Fold Image labeling is not available, so identification of image type is unclear.
- Videoswallow Image Data in Radiology PACS is "pulled" from the clip # for accurate patient / exam mapping
- Small Selected Video Segments & Still images can be stored in Radiology PACS due to large file sizes; Not the entire exam

Lessons Learned, continued

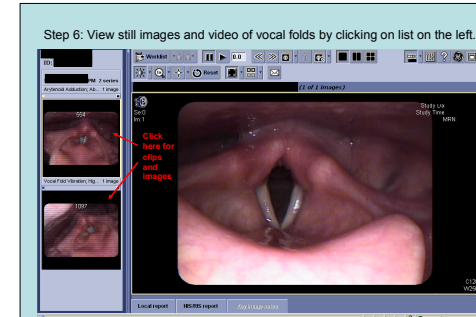
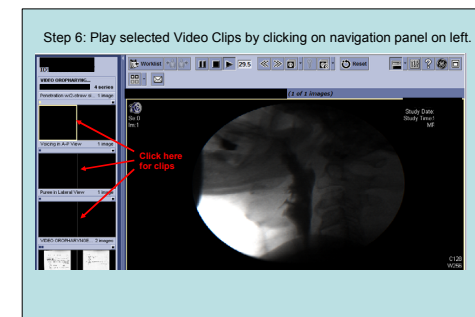
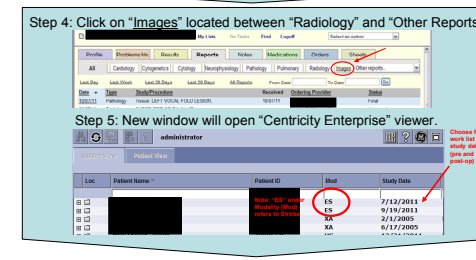
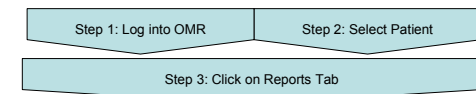
- Coordination of Care is Improved and Workflow is Streamlined by making Video images available via WebOMR

The Results/Progress to Date

To Access Video Swallow clip:



To Access Vocal Fold Clip for Voice patients:



Next Steps/What Should Happen Next

- Inform referring physicians and PCP's about high quality image availability
- Educate physicians about the location for viewing these images to achieve meaningful use of the electronic medical record
- "Pull" data for strobos to reduce potential for data entry errors
- Improve labeling of stroboscopy images for ease of identification

