

Lessons Learned from Seasoned PACS Administrators

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Background

- Recently started PACS from scratch
- Kelly Murphy
 - NM tech for 10 years
 - Baylor Garland and now Plano
 - Manage PACS
- Kevin Baker
 - MRI tech
 - RIS integrations
 - Worked on different PACS systems
 - Centennial (TENET) Frisco

Lessons Learned Starting with a Brand New Install

- Learn as much as you can
- Contact other admins
- Document everything:
 - Vendors
 - Staff
 - What can the product do?
 - When did we decide what we are doing?

Lessons Learned Starting with a Brand New Install

- Workflow is critical
- Documentation
- What can the system do?
- Write everything down

Retrofit vs New

- Workflow of film is needed
- Guess what PACS will be
- Pre and Post is important
- “Transition” workflow (film-softcopy) is often overlooked

Start from Scratch

- No processes in place: no “pre” present
- Timing is critical
- No physical flow patterns established yet
- Plans might differ from final construction
- Some might be easier

Other Lessons Learned

- Ability to train
- Training documents are needed
- Cheat-sheets
- Clinical background helps (vs. IT)
- Need to work with different people

Documentation

- Vendor documentation not useful
- Not specific enough
- Make own cheat-sheets

Big-Bang vs Gradual Implementation

- Gradual phased in was smoother
- Big-bang difficult because of short window (network drops-power plugs), otherwise easier
- Big bang is taxing for seasoned PACS admin for new admin, gradual is easier.
- For referrals, transition is harder

Use Vendor Processes

- Service support: use the official route
 - Documentation of issues
 - E.g. for device replacement in case of issues

Training

- Challenge!
 - Radiologists
 - Techs
 - Physicians
 - Nurses
- Prioritize
 - Work from the middle out
- Super-users are critical for success
- Group training as well
- Vendor Applications training
 - one week before and during

Training (cont)

- Physicians are hardest to train
 - Less time (30 minutes?)
 - Many physicians
- Radiologist are hard as well: use more tools
- Hanging protocols issue!
 - Facility related (processes by techs)
 - Naming issues as well
 - Require more work by vendors
 - Users need to know how to set them up

Speech Recognition Issues

- Kelly: Speech for every exam (self correct):
 - If more radiologists there could be learning issue
 - Need to train system
 - “uhm” is issue
- Kevin: Use Speech as well
 - Workflow is an issue

Quality Control is Critical

- Check status cancellations, where are the images?
- Images can be lost!
- Preventive maintenance and on-the-fly

- Get things cleaned up asap
- Could be related to workflow issues

DICOM Knowledge is Important

- Header inspection will help
 - Routing info present?
 - Hanging protocols?
 - Modality type
 - Exam parameters
 - AE-titles, IP addresses

Top Items?

- Training:
 - Materials: cheat sheets
 - Manuals
 - Make them self-sufficient
 - Cascading effect