Abstract

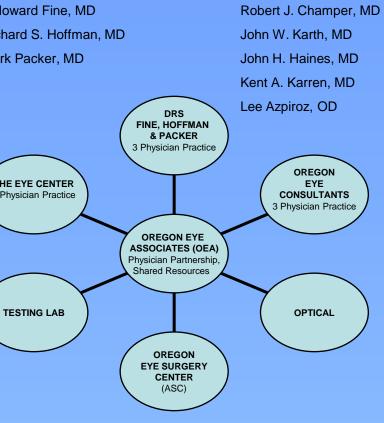
In reviewing our presentation, you will find the timeline and key steps that proved invaluable to our launch and successful conversion from paper charts to electronic medical records (EMR). Additionally, we have provided our lessons learned so that others may benefit from our



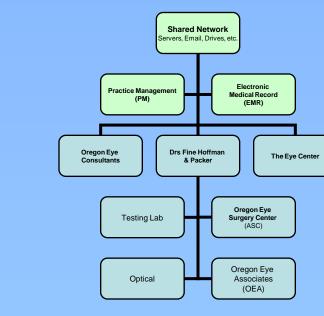


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OEA Shared IT Resources



(System Super Users)



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EMR: Steps for Success - A Case Study



Feb, 2006 Jun, 2006 Dec, 2006 2004-2005 Existing Nov, 2005 Mar, 2007 Fall, 2006

created; Vendors

Anticipate the race

it will look

Be cautious of a vendor that seems to meet all your needs an

or flexibility of template design).

Communicate goal to staff: EMR is the future

Set input from your staff! They know their workflow and

Communicate enthusiasm at every moment!

Never be too busy to answer an EMR question, you

Assess your network:

Can you add workstations and printers so staff can continue

■Do you have an adequate network in place?

staff have nowhere else to go for answers.

Choose your runnin

to function efficiently?

will have great ideas. Encourage them to self-evaluate for

Wish list researched

Spring, 2005 Site visits completed; demos viewed

PM and EMR purchased; PM kickoff

INITIATION

Staff trained; practice workflows PM Go live analyzed Feb, 2006

computer

Mar, 2006 **EMR** kickoff

committee training on new system

EMR key Aug, 2006 decisions **New EMR** made Jun, 2006 formed New hardware

installed

Key coaching decisions.

he "Patient Locator" allows somethi

Makers of EMR administrative decisions

must have a comprehensive knowledge of

hysical to follow the patient during the

office visit. The "Locator" is a paper

the software system before making

workflows created; **Subcommittee**

When developing workflows

consider using a sub-commit

"big picture".

Select members on your team

Oct, 2006 Scanning **EMR** chart protocol developed documentation analyzed; Transition of scanning paper charts to position **EMR** developed approved

PLANNING

Fall, 2006 Staff trained on **EMR** software functionality

Staff workflow scheduled for phase one

colution, even if the initial process is

You will guickly realize the value of a

scribe when using an EMR solution.

me consuming. Use implementation of and how EMR hardware wil

Fall, 2006 Training material for phase two implementation developed

Consider exam room lavout

and the workflow of staff and

(i.e. space issues, patient eve

technician/scribe ergonomic

Staff trained phase one Dec, 2006 Phase One go live: Flags, Rx refills and

phone notes

Staff trained phase two

Jan, 2007 Physicians

trained

EXECUTION

Learn the software inside and out (Functionality)

*When analyzing workflows one must consider the

effect of the entire practice. (ie. front office,

business office, clinic)

Apply new concepts to current workflows

terview vendor trainers to make

re that the committee will respon

Look at current workflows

. Identify areas to gain efficiency

Feb, 2007 Phase three Phase two go go live: **Existing** live: New patients

patients

Set the new record.

history form, libraries (providers

Early work pays off- Analyze and create

ustom lists (meds, problems, allergies

pick lists (drop downs), handouts, health

pharmacies, etc) to gain maximum •Examine software tools and

Apr, 2007 First practice 100%

Live!

embrace those that make work

more efficient. Disregard tools that

don't increase quality or efficiency.

Oct, 2007 **ASC 100%**

Jun, 2007

ASC go live

Jan, 2008 A11 100% Live

Practices

email, or note on chart Technician prepares patient health history Surgery paperwork needs to be Technician puts completed paperwork in protector,

paperwork (20 Steps

Surgery Coordinator

notified verbally, by

place in technicia

inbox

forms, using chart as a

attaches to chart paper chart? paperwork placed in MD inbox by tech flow sheet in paper protector.

Workflow Before EMR: Preparing surgery

for cataract

form

Technician writes H & P on forms, using chart as reference

MD reviews paperwork Paperwork

signs document in

EMR (creates discrete

data for H&P)

electronically

routes all documents to surgery center

Learned

•Allow ninety days after 'go live'

Allow plenty of time and

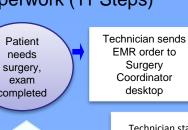
before making any form/template

gets chart &

documents &

placed in MD

Workflow After EMR: Preparing surgery paperwork (11 Steps)



EMR order to Coordinator

H&P update in Surgery Coordinator starts surgery flow confirms & signs EMR, routes it to technician desktop

chnician starts lens order update

(Discrete Datapulls from exam)

(Creates discrete data for all surgery

starts physician orders &

patient health history update in EMR (Discrete data pulls from H&P/exam)

Patient

scheduled

cataract

documents, All documents are outed to MD EMR

makes anv revisions and

employees feel comfortable with the •THIN client hardware was much better for us both for cost and space efficiency Make sure your "Super Users" are knowledgeable of the system. ·Have a central scanning area and

someone designated to this job.

Allow time to plan and analyze

Workflows, workflows, workflows!

"Surgery scheduling is so much easier now!"

Expanding reporting

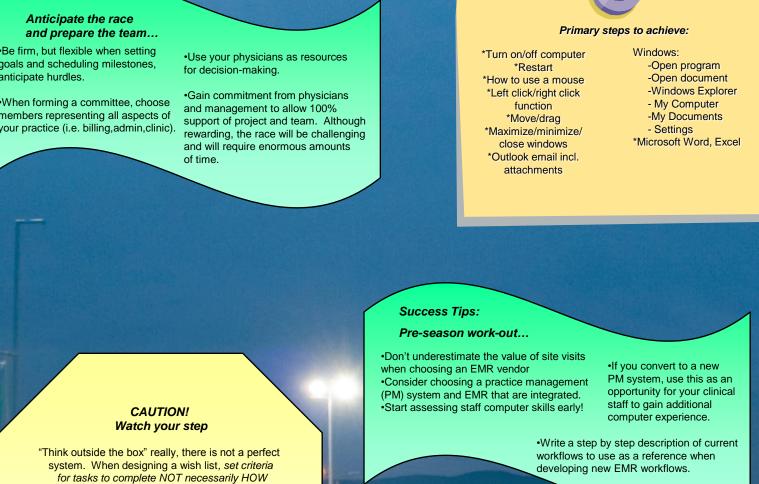
workflows.

 Outcome analysis Updating employee training material

opportunities for staff training. •Do not go completely 'live' all at once. Allow multiple phases to ensure success and maintain clinic efficiency. Drawing pads are to hard to use, the mouse will do just fine.

 Expanding flow sheet views Optical integration

PREPARATION



Always be available to staff - make time!

Listen calmly and completely as all questions are

neaningful and give you information. Smart people ask

Communicate each tool that will help users become familia

with the system. Encourage staff to learn and practice

EMR dictionary and keyboard shortcuts, etc.

good guestions that help to improve the system function.

ake the time to contact other administrators clinics, and physicians that have already instituted EMR. They wi share their successes and

lessons learned!

ommunicate that processes will change.

There may be more steps in a few areas but

great efficiency in many more!

Communicate with all staff at every opportunity

ie. staff meetings, special EMR meetings, email

updates, etc.

Encourage staff to voice their concerns, work on

munication builds trust and the staff ne

to trust you!

Utilize your resources:

Teach "Super Users" how to be flexible and work around

issues they cannot resolve right away. This will keep

everyone working smoothly.

their concerns and keep staff informed of the

CAUTION!

Don't Miss a step

on't make decisions and changes without your

committee. If you have ideas, bring them to the

entire committee for discussion and final decision

Remember, even the "smallest" changes

may have a "huge" impact.

 Be responsible for communicating decisions back to our entities

•Be a patient resource for complete eye care

Maintain an efficient clinical flow during the

Allow our patients to recognize and benefit

Combine resources as appropriate to benefit

professionalism, ethics, quality, integrity, and

Consider each department's needs, the care

from the efficiencies of our processes

all departments and patients

Strive for the highest standard of

confidentiality during this change

of our patient, and the requests of our

A full-time IT position is ideal; at the ery least, consider assigning a y employee the role of technical person dedicated to maintain chart

Remember. iust because vour office is electronic doesn't mean the rest of the world is, and not all paper documents are EMR

consistency. Create and provide a written scanning protocol, which includes indexing the EMR prior to visit) should be considered to minimize scanning and maximize efficiency. This process requires a point

Avoid performing tasks manually that can be done more efficiently or accurately using the available

CAUTION!

Keep your mind focused on the

system concepts. Give them time to adjust and learn. When working through this transition, do not

recruit staff to help.

tinually evaluate your conversio

phases, making adjustments to

dentify expectations and milestones to

maintain clinic efficiency.

be reached, create the reasons to

celebrate – then celebrate!

Praise in public!

Get feedback on each individual's

FMR comfort level Don't hold staff

members back, but concentrate on

keeping them all up to date.

finish line

Don't assume all your staff will easily understand the forget to delegate. Look around you and

and clinic flow. Consider Learn all aspects of your new sy

functionality and application in Designate a required training day for all physicians in your clinic. This will ensure consistency and success during

Take the time to develop

specific to the needs of your staf

Cookie-cutter" training material and workflows from your rendor may not be the best way to train your staff. However, they are a great place to start.

Don't get frustrated with the staff if everything doesn't go smoothly. You may need different tools for different

CAUTION!

Don't stumble your almost there

Your main goal is to make the practice run smoothly and to make your physicians more efficient.

Keep your eyes on the prize ... Publish every positive comment heard: "No waiting for charts to be pulled!"

"On call work is much easier now!"

Crossing the

Patient care is definitely enhanced by remote access "Data gathering is a breeze!" "EMR is such a time saver!"

 Review workflows for increased efficiency

> Financial Disclosure: could potentially sell

The authors are employed by an organization that associated EMR content One author has a financial relationship for educational travel/tuition expense reimbursement from

unrelated entities.

Think about: Workflow and choose equipment based on ease of function. Consider a mix of Thins & PCs for easy admin. and flexibility. Use caution when considering wireless in an ophthalmology practice. Other electronic equipment is likely to interfere with the signal causing inconsistent performance.

Pick your race.. Head to the start.

 Do you have multiple companies which need granular security? Ask your vendor about: Security needs and get answers confirmed Database options that are available **Remember, multiple databases means more

interoperability and interfacing. Build your EMR so that your options are open to add interface and automation. Go for standards and avoid customized solutions

Consider security needs and structure when choosing your EMR

•Plan on using computer savvy staff to help train and support your project. Find a good group of users who can field simple problems. This will preserve your entire staff's

Promote a calm environment.

current and future applications and plan accordingly. Don't overlook the simple details, make sure you have PDF viewer to see scanned images, and image capture software for your front desk scanners.

Give it all you go

updates and service packs with minimum IT time and interference with clinic time.

ommunicate the planned timeline to all staff to

ensure no one gets left behind. Fach team member

will help the other to be successful!

Turn on system pieces sequentially as they are ready

so staff can experience success with each piece.

 Take the minimum system requirements and double them. Be sure to communicate and understand expectations of

Giving users lots of control and freedom is nice, but it can

also backfire. Put into place a good system for deploying

Don't rely too much on the vendor:

•Make sure you have a handle on what the project entails and what is involved with each milestone. If you are not familiar with something, research it.

environment and this could potentially have a ripple effect that can set your project back.

•EMR vendors may not fully understand your specific

Space your hurdles

•Test all clinical content before putting it in your "live" database.

•Take the extra time to build your templates as standardized as possible, document and discreet data capture. •Design your content to be reused in different types of patient

municate no changes for 90 days, this enables

eryone to learn the system as designed and prevents

a moving target for success.

Every change request is a potential opportunity for more

visits to keep things consistent for users and minimize design Carefully consider what types of discrete data you want to •Plan ahead; If you think you might want it, plan for it.

more efficient! will educate your users. This helps reduce your time for support.

•Use automation whenever possible, for rolling out new workstations, inventory, etc. •Continue to prioritize and support your implementation. Push forward with the next thing that will make your organization •Use written workflows, do this by creating a knowledgebase that

You will soon realize is that your project is never really

·Patient portal with secure messaging •Considering care reminder protocols