

Workflow Redesign for EHRs

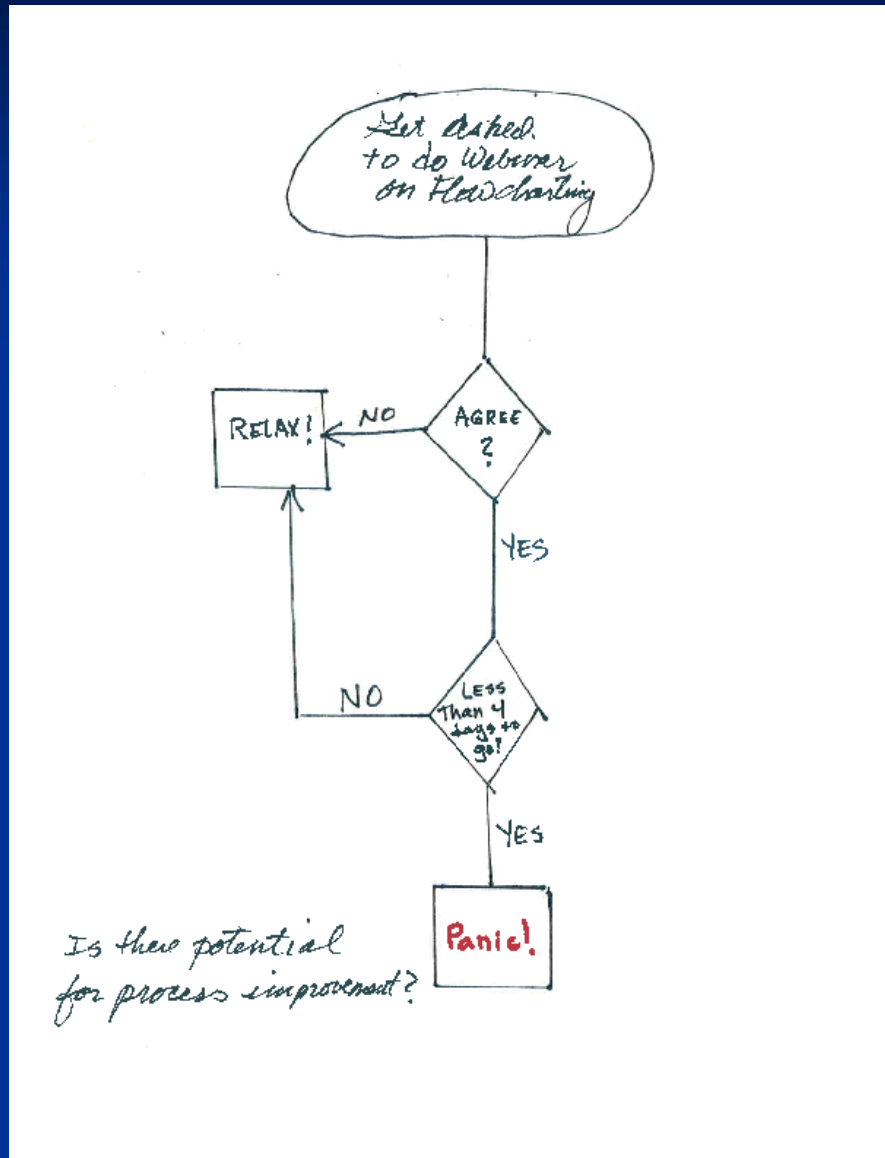
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Objectives

- Learn the value of understanding current clinical workflows
- Understand how workflow documentation can improve the success of an EHR implementation
- Increase awareness of practical workflow analysis tools
- Receive suggestions on ways to involve clinical staff

What's so Great About Flow Charts?



Why Map Processes?

- Excellent early step to engage the organization in the idea of change
 - EHR will force standardization
 - EHR implementation requires a review of workflow
 - Process mapping engages structured thinking
- Potential for process improvement
 - Almost always “aha moments”
- Captures key controls, processes, important ways you are unique
- EHR success is the about the People and the Process, NOT the technology.

Process Maps & the EHR

- Process maps illustrate nature of the activities and the sequence & flow of the work
- Process maps are a visual representation of complex activities
- Process mapping begins the change management process by engaging users
- Process maps help identify problems and workarounds in the current system
- Process maps can form the basis for identifying functional requirements in the EHR

Key Concepts & Definitions

■ Workflow

- The study of “Who Does What When”

■ Process

- A complete set of activities that crosses functional boundaries to accomplish a task.

EVENT  TASKS  RESULTS

Workflow Analysis

- Frame the Process
- Understand the current (as-is) process
- Design the new (to-be) process

Process Frame Example

PROCESS FRAME						
Process Name						
Trigger Event	Milestone Steps					Result
Case for Action			Vision			
Customers/ Stakeholders	Mechanisms		Metrics			

- Boundaries
 - Major steps in the process from the trigger event to the end result
 - Stakeholders / Customers
 - Mechanisms
- Case For Action / Assessment
- Vision
- Metrics / Measures

Process Frame

Establishing Expectations for Use of EHR in Key Clinical Processes

Current Processes	EHR Impact Function	Benefits	Metrics	Expectations/Goals
Visit Specific Processes				
Pre-Visit Appointment scheduling Diagnostic studies scheduling Insurance verification Chart preparation	<ul style="list-style-type: none"> - Patient portal for scheduling visit - Automated self history & symptom assessment - ASC X12N 270/271 - Paperless 	<ul style="list-style-type: none"> - Context-specific scheduling of diagnostics studies prior to visit - Check eligibility - Reduce/eliminate filing 	# FTE scheduling # FTE pulling/filing charts and loose sheets \$ in collections # days in A/R # FTE prepping charts Patient satisfaction	<ul style="list-style-type: none"> - Reduce clerical staff 75% through attrition - Check eligibility on 95% of patients, reducing A/R days by 5 and cutting bad debt by 50% - Increase patient satisfaction survey scores by 3%
Check in	<ul style="list-style-type: none"> - Workflow - Wait times calculated 	<ul style="list-style-type: none"> - Reduce wait time - See more patients - Increase revenue 	# minutes wait time # patient visits/hour/physician \$ average revenue/ patient	
Patient intake Documentation of vitals, HPI, etc. Check on health maintenance Patient preparation	<ul style="list-style-type: none"> - Context-specific template-based charting - Health maintenance reminders 	<ul style="list-style-type: none"> - Compliance with health maintenance 	# records identifying flu shot status # DM foot exams	<ul style="list-style-type: none"> - Obtain flu shot information from 100% of patients and provide flu shots to 98% of pts
Review chart Review results (incl. images) Review past encounter data Review other provider & patient-supplied data	<ul style="list-style-type: none"> - Integrated provider EHR and patient PHR - Inter-disciplinary, multi-media, and remote access - Continuum of care 			
Clinical documentation Validate history data Record physical exam Document encounter notes				
Care planning Develop care plan consistent with guidelines				
Medication management Order medications Manage refills: local pharmacy, mail order Manage samples Reconcile medications				

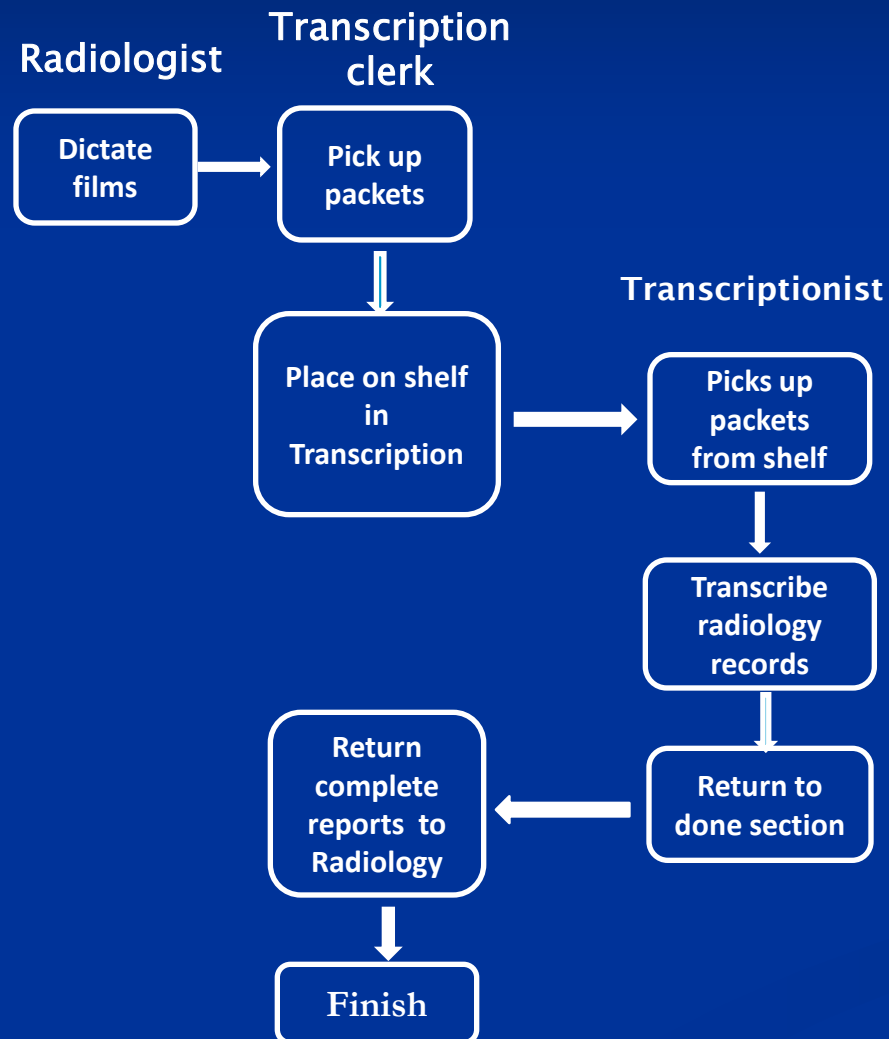
The Current (As-Is) Process

- Map the current process using progressive levels of detail until the process is understood
- Use an 80/20 Rule at a sufficient detail to inform the software configuration process
- Capture low hanging fruit or ah hahs
- Remember to include the staff involved in the process

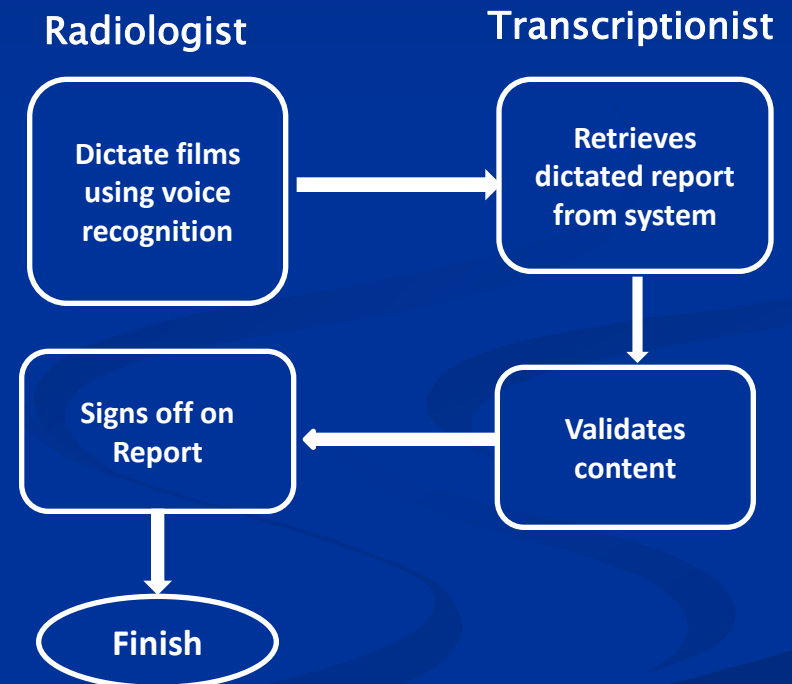
The New (To-Be) Process

- Combination of the as is and the design of the technology
 - Functional benefits
 - Functional constraints
- Forms the basis for change management and training
- Distributed widely and discussed

Current As-Is Process



Future To-Be Process



Process Mapping Tools

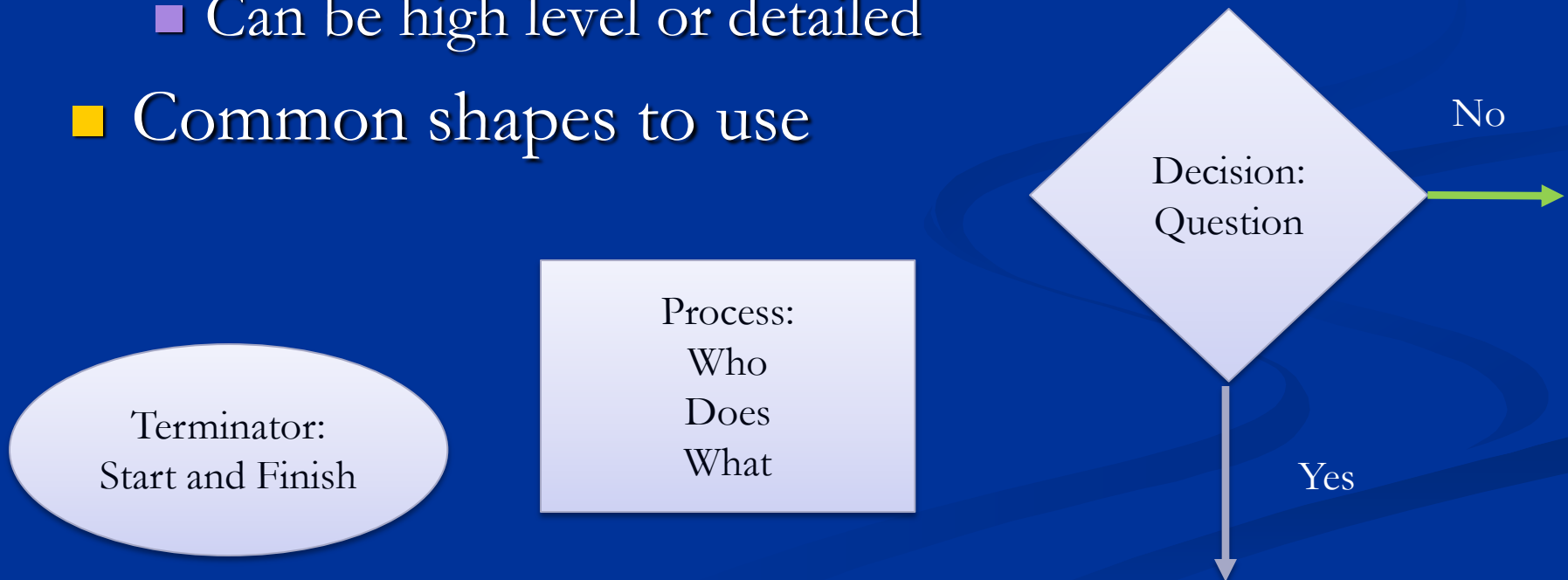
- Tools may be used at varying levels of detail
- Tool selection may depend on the nature of the process being mapped
- Tools may be paper-based, automated, or web-based
- There are a variety of process mapping tools; the key is to choose the one that works best for your organization
- The tool is not as important as understanding the process

Process Mapping Tools

■ Flowcharts

- Graphical, pictorial mapping tool
- Easy to understand
- Can be high level or detailed

■ Common shapes to use



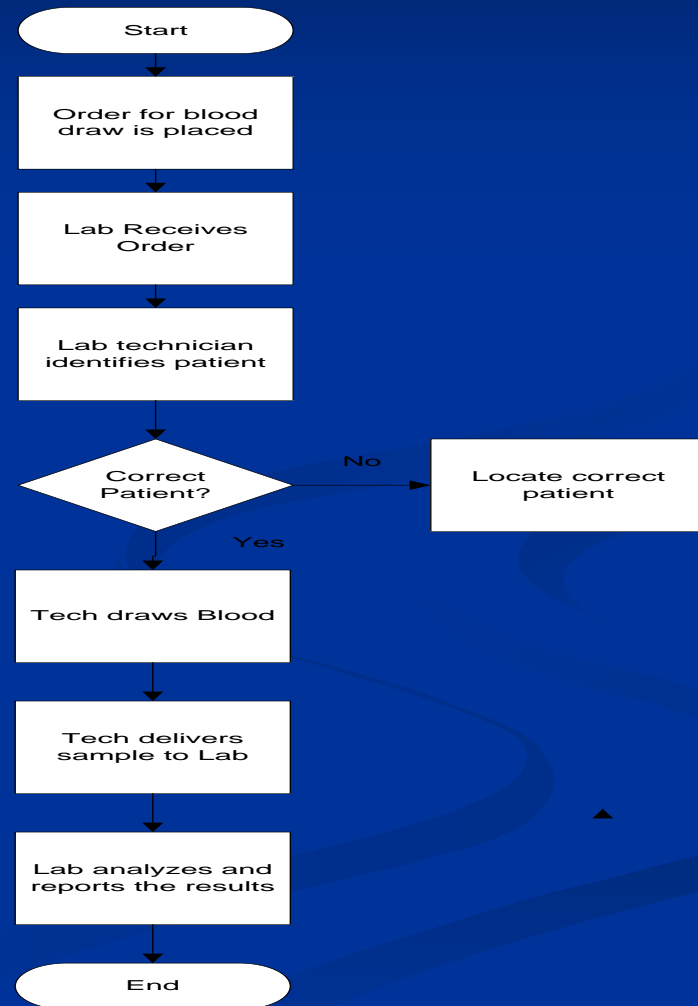
How to Map Processes

- With a team of experts – the people who do the work
- Written down
- Dynamically – in a way that can be updated
- With or without flow charting tools
- With a sense of engagement or excitement

Getting Started

Discuss Drawing Blood

- What event needs to be in place to start?
- What info needs to be delivered to the next step?
- What is a process step for this process?
- What is a work instruction?



Process Mapping Tools

■ Top Down Process Map

- Can refer to another pre-defined process
- Use the least number of steps necessary, usually 7 or 8 steps
- Stay at a high level; more detail can be added later if necessary

Top Down Process Map (High Level)

Minneapolis School Based Clinics Top Level Process

1.0
Inform
Students
About
Services

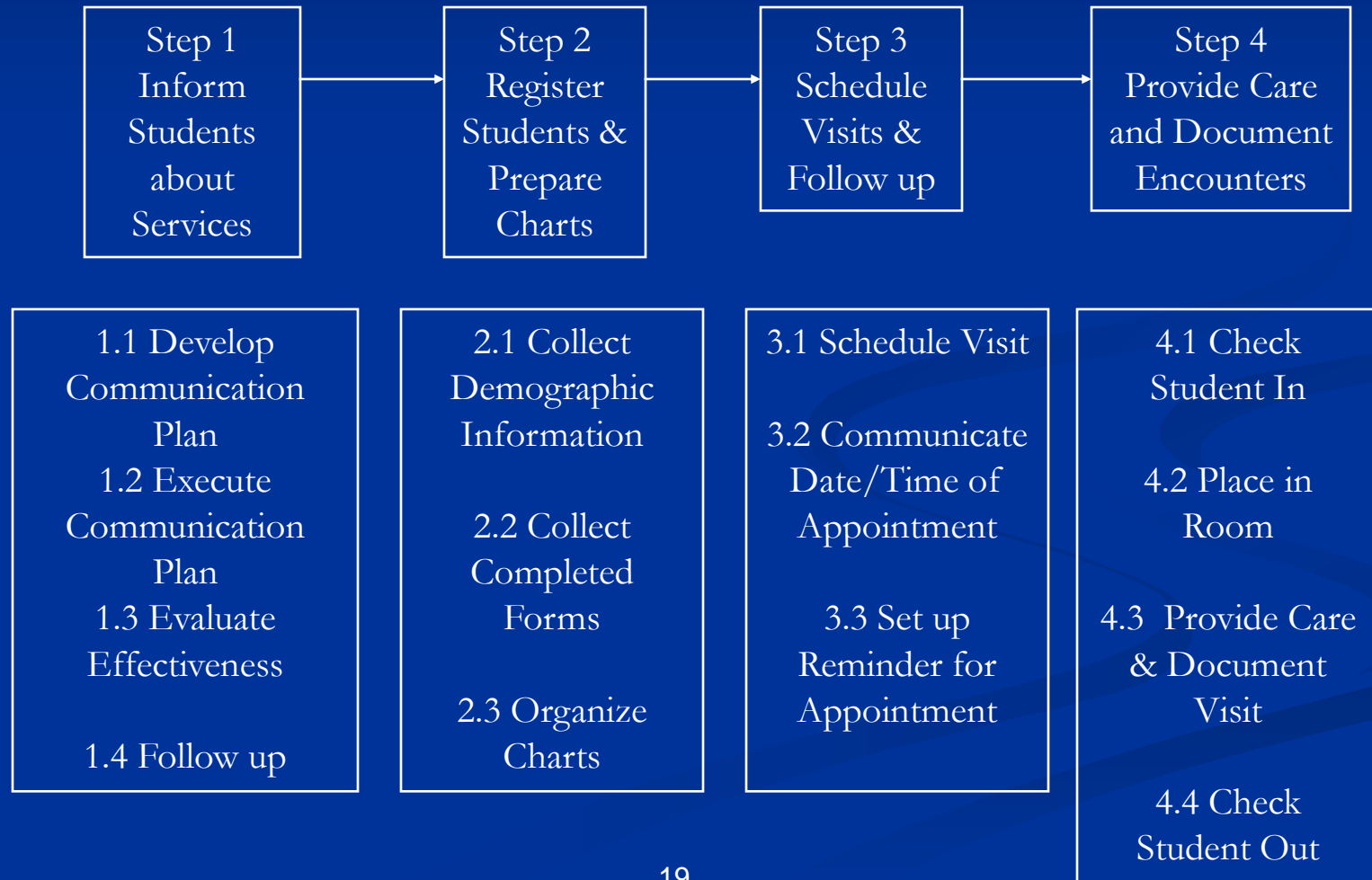
2.0
Register
Students and
Prepare
Charts

3.0
Schedule
Visits and
Follow Up

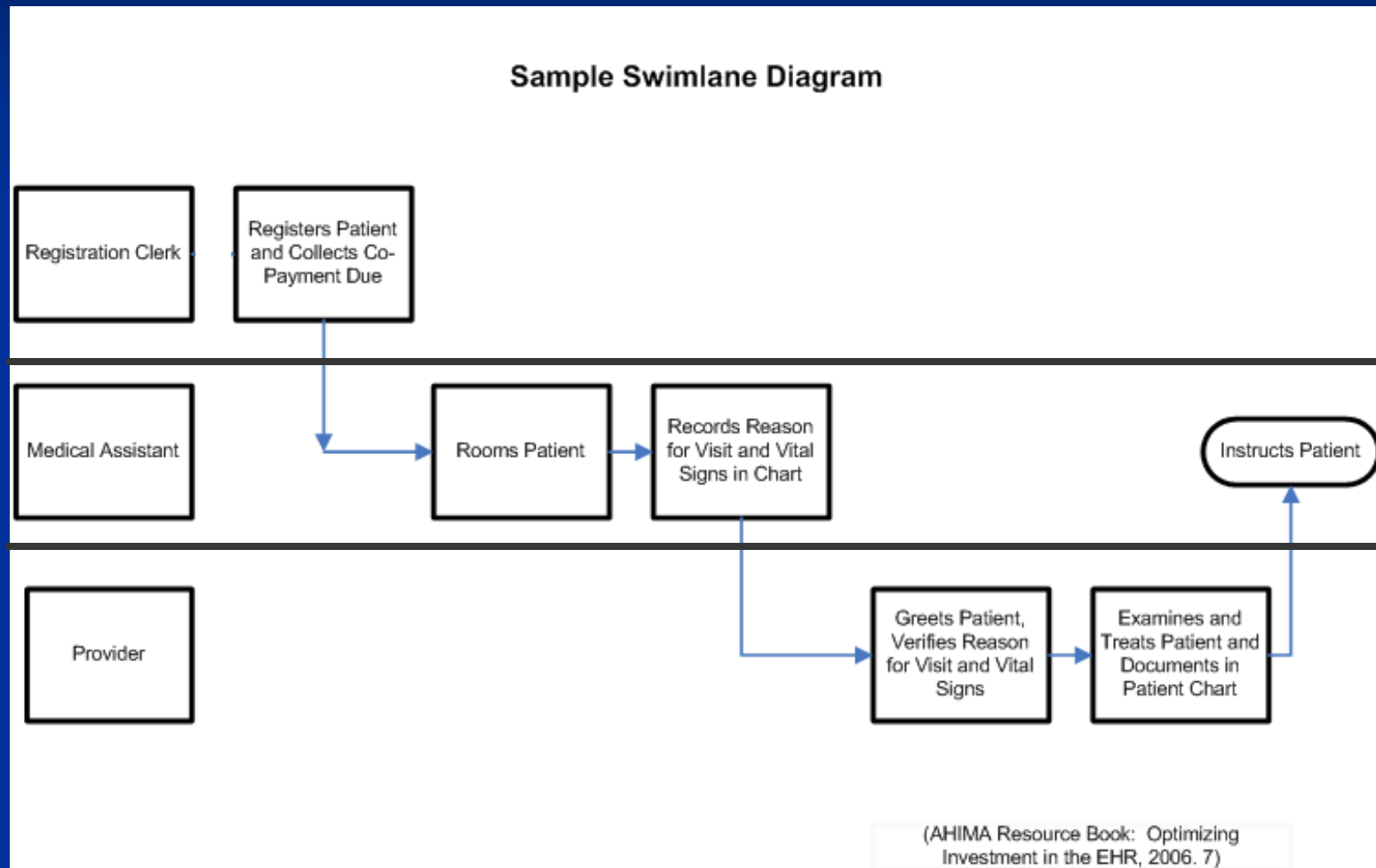
4.0
Provide Care
and Document
Encounters

5.0
Bill Payers,
Report to
Funders, and
Manage
Collectables

Top Down Process Map (More Detailed)



Swimlane Diagram



What We're Looking For

- The right way
 - Not:
 - My way
 - Your way
 - The way we've always done it
- Focus on the right way is often a cultural change

What to Map

- Use 80-20 Rule: 80% is good enough

- Common process list:

1. Pre-Visit

- Appointment scheduling
- Diagnostic studies scheduling
- Insurance verification
- Chart preparation

3. Patient intake

- Documentation of vitals, HPI, etc.
- Check on health maintenance
- Patient preparation

4. Review chart

- Review results (incl. images)
- Review past encounter data
- Review other provider & patient-supplied data

5. Clinical documentation

- Validate history data
- Record physical exam
- Document encounter notes

6. Care planning

- Develop care plan consistent with guidelines

7. Medication management

- Order medications
- Manage refills: local pharmacy, mail order
- Manage samples
- Reconcile medications across continuum of care

8. Ordering

- Diagnostic studies
- Surgery
- Referrals
- Admissions
- Nursing services

9. E&M coding

10. Charge capture

11. Patient instruction

- Education
- Summary of visit

12. Check out

Process Improvements

- Look for
 - Duplication
 - Variation
 - Inefficiencies
 - Inconsistencies
- Ah Ha's, low hanging fruit
- Correct some things you find
- Communicate and celebrate

Conclusion

- The power of process mapping lies in the visual representation of complicated concepts
- Process mapping is a vital step in preparing for EHR implementation
- Process mapping has inherent benefits beyond the EHR
- There is no one right tool
- Engaging people who do the work is essential to success