

#### The Source for Quality

#### **Scheduling and Registration**

#### (Using DMADV: Define-Measure-Analyze-Design-Verify





# Context: IT Strategic Plan & Vision

- Connecticut Children's 2008 2012 Strategic Plan prompted the need to develop an IT Strategic Plan
- Vision: Information Technology at Connecticut Children's is to support our organizational mission which is to be the medical center of choice in our region for families and providers seeking health care and treatment for infants, children and adolescents. Specifically:
  - We provide the highest quality of care in a safe, family-centered environment.
  - We attract and retain the best professionals throughout our organization.
  - We foster strong partnerships with our patients and families, referring providers and government community and business leaders.
  - We are recognized nationally for the growth in our research commitment and funding.
  - We provide outstanding education and training for health care professionals dedicated to children's health.

#### We will use information technology to become a fully integrated healthcare system, enabling the three essential elements of information, innovation and integration to lead the way to excellence in care, research and education

 Goal 1: By 2011, re-engineer processes which are critical to the implementation of enhanced technology systems and the patient/family experience.

#### Let's make sure our processes work before we automate them.

# Context: Meaningful Use

- HITECH Act under the America Recovery and Reinvestment Act (ARRA) established a set of incentives and penalties for adoption of EHRs
- Providers will be required to demonstrate "meaningful use"
  - To improve quality, safety and efficiency, and reduce health disparities
  - Engage patients and families in their health care;
  - Improve care coordination;
  - Improve population and public health; and
  - Ensure adequate privacy and security of health information.

### EHR & Process Redesign

"...Efficiencies gained by redesigning workflow and processes pay dividends for years to come, and create and active, engaged culture among staff... But, optimization is not a one-time event; once it starts, it truly never ends..." - CHiME CIO Guide for Implementing EHRs in the HITECH Era

- Transforming processes prior to EMR build and installation saves time, money and allows optimal benefits of EMR functionality
- Suboptimal processes will create suboptimal results
- Key Guiding Principles:
  - Patient Safety
  - Quality in the Delivery of Patient Care
  - Efficiency
  - Patient and Family Centeredness
  - Timeliness
  - Redesigning all processes with the customer in mind
  - Optimizing value in the eyes of the patient/family

# **Process Redesign Projects**

#### Phase 1

- Scheduling and Registration
- Ambulatory Care
- Medication Management

#### Phase 2

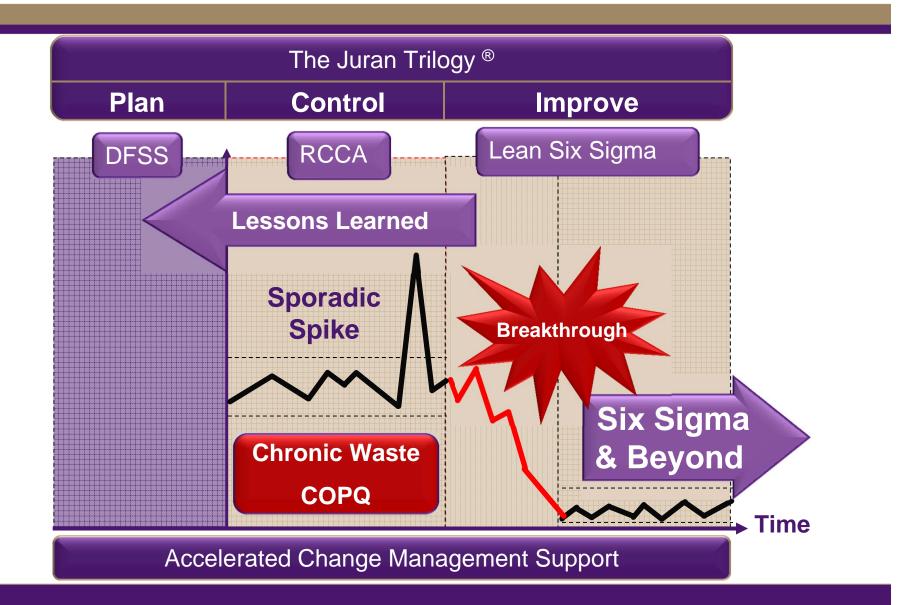
- Medical Record Management

#### Phase 3

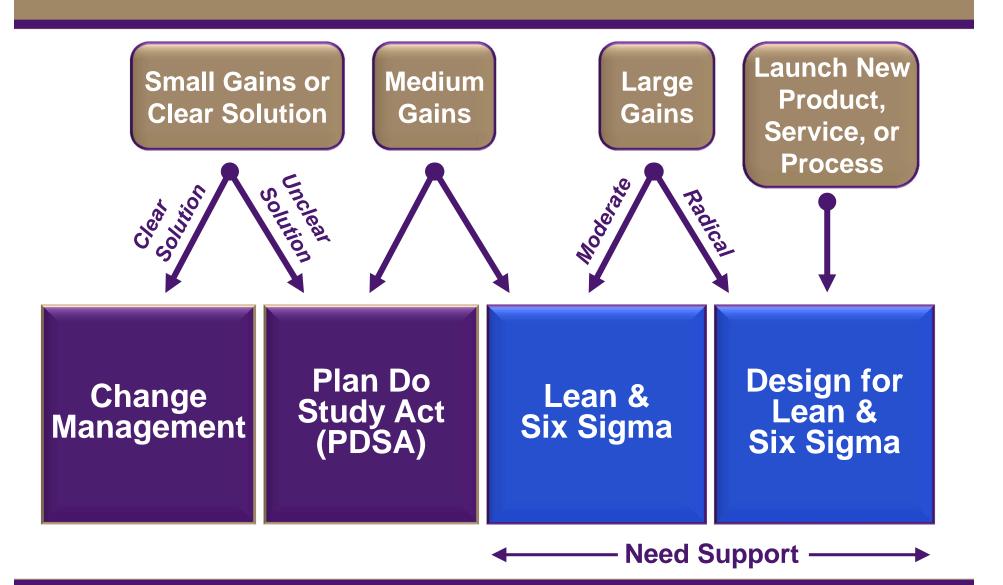
- Surgical Services
- Imaging Services
- Inpatient Care



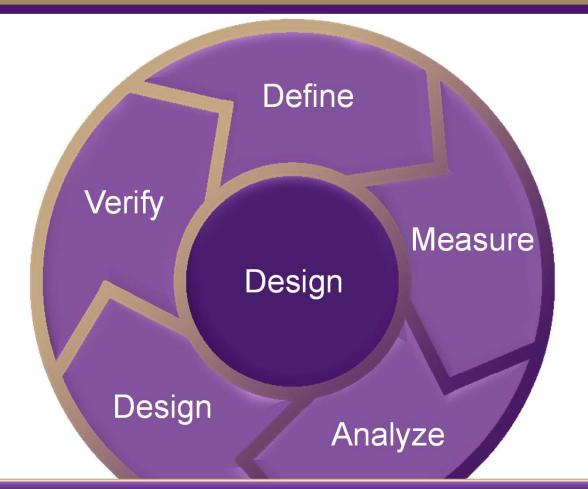
#### How to Think About Lean Six Sigma Toolbox



#### Some Projects Need Support



### **DFLSS: Design for Lean Six Sigma**



#### A Common Methodology to Design

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## DMADV

# Define Measure Analyze Design Verify



#### **Define Phase: Key Deliverables**



# **Project Charter**

**Problem Statement:** Currently at Connecticut Children's, the scheduling and registration of patients occurs at different locations with different information systems across the enterprise. The lack of integration of information systems creates inefficiencies due to complex work flows and resource management, rework and errors associated with transcribing patient information from one system to the other, gaps in automated insurance verification, variation in performance due to lack of standardized processes, gaps in performance measures, and manual hand-offs. Specifically ending in FY 2010:

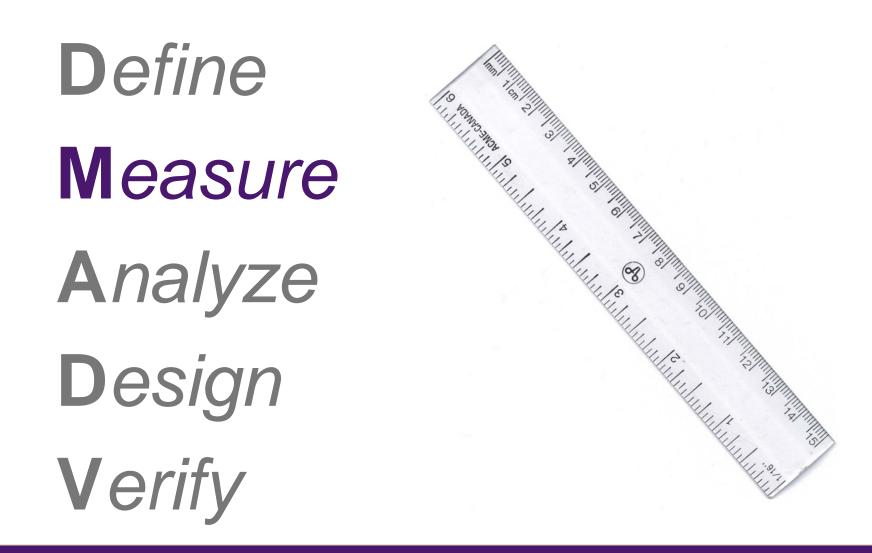
- 1. Accuracy of registration information in the ED is 80%
- 2. Accuracy of registration information non-ED is 93%
- 3. Insurance verification in the ED is 99%
- 4. Insurance verification non-ED is 98%
- 5. % of New Patient Scheduled (Appointment) within 30 Days is 80%
- Duplicate Medical Records created is 612 (SMS) and Duplicate Accounts created is 667 (IDX)
- 7. Overall Eligibility Denials is 1.7%
- 8. Patient Satisfaction (PG 3rd Qtr.) Ease of Scheduling is 86.5

## **Project Charter**

**Goal Statement:** To redesign the scheduling and registration processes in order to achieve the following by 12/31/2011:

- Increase the accuracy of registration information in the ED from 80% to >95%
- Increase the accuracy of registration information non-ED from 93% to >95%
- 3. Increase the insurance verification from 99% to 100%
- 4. Increase the insurance verification from 98% to 100%.
- 5. New Patient Scheduled within 30 Days from 80% to 99%
- 6. Reduce Duplicate Medical Records from 612 (SMS) and Duplicate Accounts from 667 to (IDX) by 50%.
- 7. Reduce Overall Eligibility Denials from 1.7% to <1.0%
- Increase Patient Satisfaction (PG 3rd Qtr) Ease of Scheduling from 89.5 to 92.0

#### DMADV



#### Measure: Key Deliverables



#### SIPOC: High-Level Process Map

#### **Suppliers**

Physician (office), DCF, School, Patient, Family, Legal Guardian, Another Facility, Sunrise, Bed Manager, IDX, Radman, SCM, Radiology, Lab, Outpatient Services, Procedure Guidelines, Medical Present Value (MPV), Search America, HDX, Insurance Websites, Electronic Document Management(EDM), Homegrown Systems, SMS.

#### <u>Inputs</u>

Requests: Order, Fax, Phone Call, Reason for Visit, Walk in, On line, Reschedule/Intake, Bed Number, Patient, Demographics, Guarantor and Insurance info, and Physician Info. Authorizations. Master Schedule Templates, Daily Templates, Date and Time, Location, Provider, Type of App, Type of Service, Reason for visit, Duration, Level of Care (LOC), Resource availability, Written Instructions/rules (scheduling/patients), Verified Gathered Data, Updated Patient Status, Obtained Necessary Signatures, Copies of Photo IDs, Insurance Cards, and Legal Guardianships

Process Scheduling and Registration

#### <u>Outputs</u>

**Complete and Accurate** Patient Request Demographics, Insurance, and Physician Info Mutually Agreed upon Date and Time of Service **Secured Appointment** Instructions Given Health Record Verified Insurance Authorized Services **Obtained Referral Complete and Accurate** Health Record **Complete and Accurate** Registration

Receive Request for Patient Services

Gather Patient Information Find Appointment (Reminder)

Schedule Appointment Enter Patient Information

ent Proce on Info

Process Patient Information

Arrive the Patient

# Identify List of Customers

CUSTOMER LIST
Ancillaries schedulers (Respiratory Nutrition, cardiology,)
Another Facility
Billing
DCF,
Finance
Health Information Management
Healthcare Access (HCA Associates)
Infusion Centers
Legal Guardian,
Med Specialties - Med Assistants and Receptionists
Patient/Family,
Physician (office),
Primary Care - Medical Receptionists, RNs, Practice Associates
Providers of Care
Radiology
Scheduler
School,
Sleep Lab -
Surg Specialties - Med Assistants and Receptionists
Therapies - Medical Receptionists
Inpatient Unit
Utilization Manager

# Translate VOC to Key Issues/Needs

TRANSLATE VOICE OF THE CUSTOMER TO KEY ISSUES/NEEDS				
VOC Response	Key Issues (Needs)			
Ability to flag complex patients so that they can be scheduled with extra time	Ability to flag patient specific considerations			
I would like to see outside physicians connected somehow to send electronic script instead of faxed one you	Ability of outside provider groups to send			
can hardly read.	electronic referrals/requests			
patients often come to fluoro not knowing what kind of exam and what the exam involves, the doctors' offices	Access to important information for patients.			
are not educating their patients				
No access to scheduling/registration after hours - if I talk to a pt in the evening and want them seen the next	Access to scheduling/registration processes for			
day, I can't give them an appt	patients			
I think that we could be more efficient in our evalutations if we recieved more patient informaion (ie. patient	Access to the patient's complete medical record			
forms of past medical information, etc) in advance, this would decrease parent interview time and allow for				
improved quality				
technology that provides updates and most accurate personal information of patients to all areas of the	Access to the patient's complete medical record			
hospital				
updated information from clinics	Access to the patient's complete medical record			
Physical environmentaccessibility for patients in wheelchairs	Accessibility for special needs patients			
pertinent patient history to accommodate disabilities or added services (interpreter)	Accessibility for special needs patients			
scanner to scan the pre-cert logs into EDM	Availability of necessary equipment/supplies			
Scanners and e-sign to work accurately	Availability of necessary equipment/supplies			
sleve Pocekts for the wall	Availability of necessary equipment/supplies			
Technology is rapidly changing due to the fact that a large portion of my responsibilities are dependent	Availability of technology to enhance job			
uponcomputer, phone, etc. My ability to stay current with the ever advancing technology would definitely	performance			
improve my performance				
	Availability of technology to enhance job			
a computer that is already on so all you have to do is open idx and type in a password (i.e. Floor COW)	performance			
a COW to check insurance Auth before referring families to the front desk (Not always in the chart-insurance	Availability of technology to enhance job			
auth)	performance			
A scheduling system that is easy to use, whether making an appointment for a patient or inputting schedules	Availability of technology to enhance job			
into the system.	performance			
	Availability of technology to enhance job			
access to maintaining our own schedule	performance			
	Availability of technology to enhance job			
	1 .			

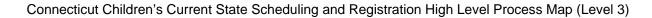
access to more insurance sites non mpv

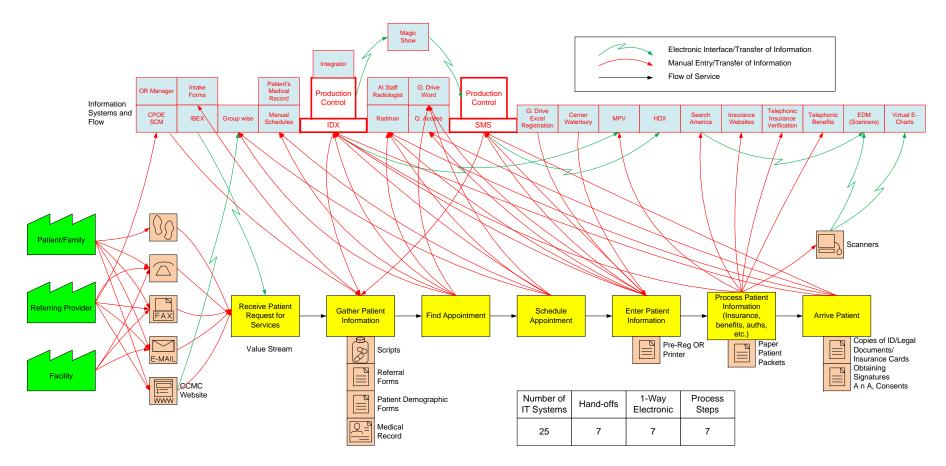
performance

### Final List of CTQs

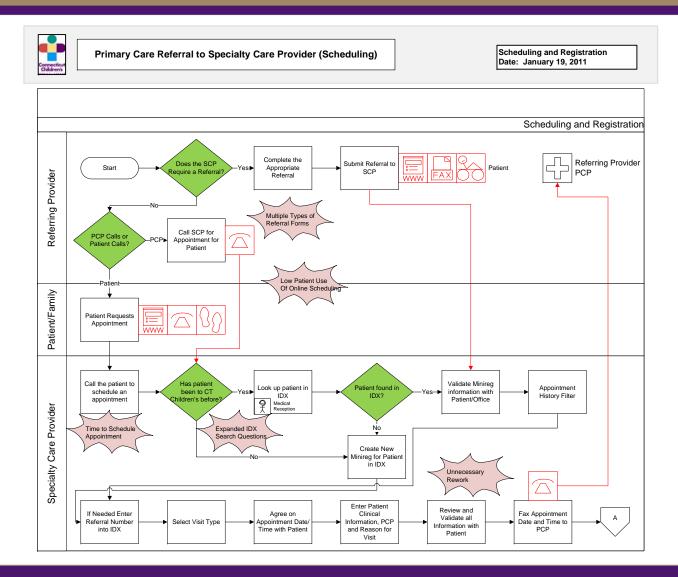
S	Scheduling and Registration Critical to Quality Measures			
1	Number of options available to patients to access the system.			
2	Number of information systems required to access patient's complete medical record.			
3	Registration/scheduling accuracy.			
4	Complete, accurate and legible request for patient services.			
5	Patient satisfaction with scheduling/registration processes.			
6	Eligibility denials.			
7	Number of handoffs required to schedule/register one patient.			
8	Number of information systems required to register one patient or schedule an appointment.			
9	Duplicate Medical Records/Accounts			
10	Time from referral submitted to the time the patient has secured an appointment.			
11	Complete preregistration prior to check in.			
12	Authorization obtained prior to appointment.			

# **Conceptual Model/Value Stream Map**





#### **Current State Detailed Process Maps**



# Process Opportunity Final List

	PROCESS			
Ref #	Process Step	Process Opportunity	Total	
1	Receive Request for Patient Services		ocess ortunitie	
2	Receive Request for Patient Services		entified	
3	Schedule Appointment	Create Duplicate IDX Account		
4	Enter Patient Information	View SMS for MR#		
5	Enter Patient Information	Timing of IDX-SMS for Registration (No System of Truth)		
6	Process Patient Information	Lack of Communication Between HCA and Reg/Ref		
7	Enter Patient Information	Variation in Department HCA Processes		
8	Enter Patient Information	Cashier's Office Manually Enter Report Criteria		
9	Enter Patient Information	Potential to Create Duplicate Medical Record #'s		
10	Process Patient Information	IVariation in How to Handle Selt-Pay Patients		

### DMADV

# Define Measure Analyze Design Verify



#### **Future State Functions**

Function	What this means
Receive Patient Request for Services	A formal request for services is submitted by patient/referring provider and received by a scheduler.
Gather Patient Information	All information required to schedule an appointment and complete a registration is obtained from the patient.
Enter Patient Information	All information required to schedule an appointment and complete a registration is entered into the system.
Find Appointment	An appointment both available and agreeable to the patient is identified in the scheduling system.
Schedule Appointment	The appointment date/time and appropriate patient information is entered in the system.
Process Patient Information	The insurance information provided by the patient is verified and any necessary referrals and/or authorizations are obtained.
Arrive Patient and Collect Copay	Once the patient arrives for service, the patient is arrived in the system and the appropriate copay is collected.

#### **Best Practice Research**

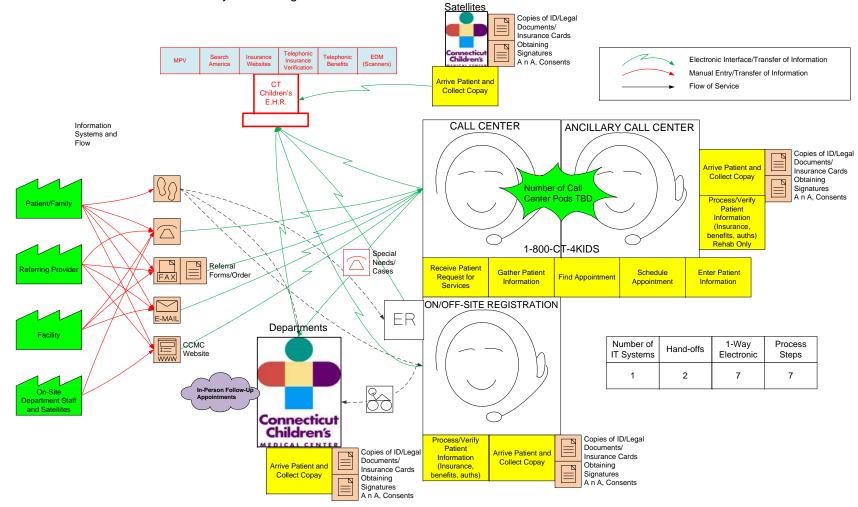
Best Practices for Functions					
	List of Functions (prioritized)	Bes	t Practices	Source	
	Receive/Submit Request for Patient Services (Referral, Order				
1	Requisition, Verbal Referral/Request)	One phone number, limited	fax from clinics (Full Cerner)	LCMC	
	Find and Select Time of Service (Appointment) Agreeable to the				
2	Patient/Family	Upgraded phone system		LCMC	
		Centralized Scheduling (Ou	tpatient Ancillary and Hospital-		
3	Schedule the Time of Service (Appointment) in the System	Based Clinics - 32 total and	d 3500 appointments/month)	LCMC	
	Gather Patient Information (Demographics, Time of Service, Insurance				
4	Information, Provider, PCP)	90% goal for preregistratior	n, online preregistration	LCMC	
	Enter Patient Information into the System (Demographics, Time of				
5	Service, Insurance Information, Provider, PCP)			LCMC	
	Process and Verify Patient Information (Insurance, Authorizations and	Centralized Preregistratic	FTE, 10 in departments during		
6	Benefits)	slow time, Referrals/	ation/Orders (2 FTE)	LCMC	
		Kiosks (E-Conse	via credit), Arrival and Copay in		
		e departme	zed Arrival/Copav (10 in		
7	Arrive the Patient into the System	'm-		LCMC	
	Receive/Submit Request for Patient 5				
8	requiring the ball the felt and the	ith three hospitals		CCMC	
	implemented	a version of centra	lized		
	Find and Select Time of scheduling to hel	p identify best prac	tices for arge		
9	Detient/Comily	functions.		CCMC	
10	Schedule the Time of Service (Appendiction	iunctions.		CCMC	
			THISURANCE		
	Gather Patient Inform		ise, the		
11	Information, Provider, PCP)	(د)	re-rey.	CCMC	
	Enter Patient Information into the System (De Los, Tin				
12	Service, Insurance Information, Provider, PC.			CCMC	
	Process and Verify Patient Information (Insurance, Authorizatio	Decentralized reg. ons	for processing insurance referrals		
13	Benefits)	and authorizations in he de		CCMC	
14 Arrive the Patient into the System and Collect Copay Arrival and copay done at check in.			CCMC		

#### **Evaluation of High Level Design Alternatives**

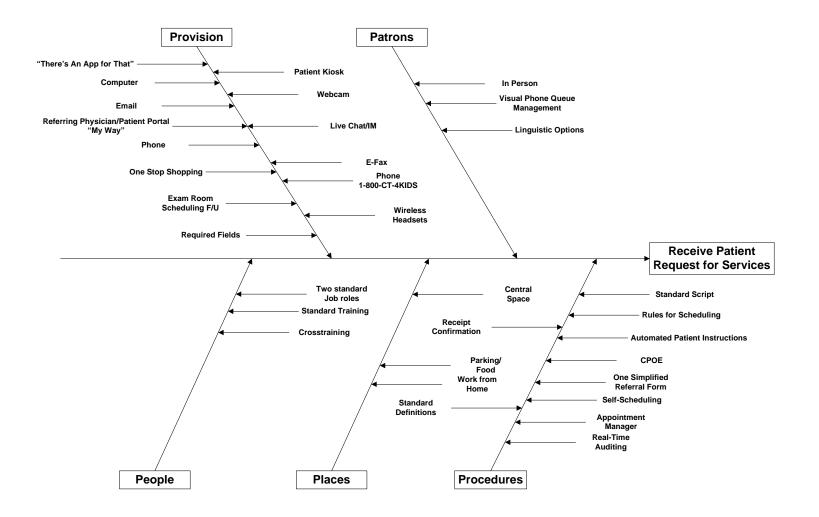
High Level		Risk Assessment	Risk Assessment Technical Quality	Pugh Concept	
Design	Description	Acceptance Score	Score	Score	Total
1	Total Centralized	128	137	15	2
	Total Centralized (On/Off-				
2	Site Call Center)	118	139	15	3
	Centralized				
	Scheduling/Decentralized				
3	Registration	117	145	7	4
4	Total Decentralized	71	165	1	6
	Centralized Scheduling				
	(Off-site)/Centralized				
5	Registration (On-site)	128	137	15	2
0		120	157	15	2
	Decentralized				
	Scheduling/Centralized				
6	Registration	52	165	11	5
	Centralized				/
	Scheduling/Centralized				
	Ancillary/Centralized				
7	Registration	108	113	17	1

#### **Recommended High Level Design Alternative**

Scheduling and Registration High Level Design Alternative 7 – Centralized Scheduling/Centralized Registration/ Centralized Ancillary Scheduling



#### Brainstorm Design Features by Function



# **Design Feature Categorization**

	Feature Categorization					
			Enhanced /			
	_		Enabled /			
#	Features	Definition	Independent	[Difficulty to Implement]		
		Patient information entered once will auto				
		populate into the appropriate fields for all other				
1	Seamless Flow of Information	applications.	Enabled	Hard		
		Patient information entered once will auto populate into the appropriate fields for all other				
2	One Time Data Entry	applications.	Epted	Hard		
		Develop and provide s′ard training for all				
3	Standard Training	scheduling and regis	endent	Moderate		
		and provide the				
4	Cross-Training	Each design feature price	oritized into 1	Hard		
4	Standard Scheve					
_		of 3 categories, EHR E	nabled, EHR	a de vete		
5	5 Work Flows Enhanced and EHR Independent and					
	on difficulty to implement.					
6	Two Standard John		Easy			
7	Connectivity	Accr	ableu	Hard		
		All				
		schedule an appointn pmplete				
8	One Stop Shopping	registration in one pho	inhanced	Hard		

# **Final Design Feature List**

	Final Design Features List					
#	Features	Definition	Enhanced / Enabled / Independent	[Difficulty to Implement]		
1	Standard Training	Develop and provide standard training for all scheduling and registration job roles.	Independent	Moderate		
2	Cross-Training	Develop and provide standard training that allow s any staff member to perform both scheduling and registration functions.	Independent	Hard		
3	Standard Scheduling/Registration Work Flows	Develop and provide standard w ork flow s for call center and registration job roles.	Inder Indent	Moderate		
4	Two Standard Job Roles	Call center staff stand diob description, policies and w ork flor distration staff	endent	Easy		
5	Standard Script A total of 96 design features were identified for Phase 1					
7	(Pre-EHR) or Phase 2 (Intra- EHR) implementation.					
9	Webcam	see ? c. sch uppoint stomer sf. rice needs.	dependent	Easy		

# DMADV

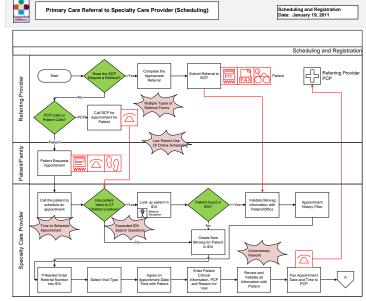
# Define Measure Analyze Design Verify



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# **Detail Design Deliverables**

- Detail Process Maps
- Standard Work and Policies and Procedures
- Human Resources Plan
- Information Technology Plan
- Facilities Plan
- Equipment and Supply Plan
- Service Level Agreements
- Process Control Plan
- Communication Plan
- Updated Customer Design Scorecard
- Pilot/Small Test of Change Planning and Implementation
- Detail Design Evaluation
- Develop Design Verification Kit/Design Kit
- Design Feature Requirements Checklist



**Design Verification Kit - Pilots** 

# 1. Call Center Scheduling

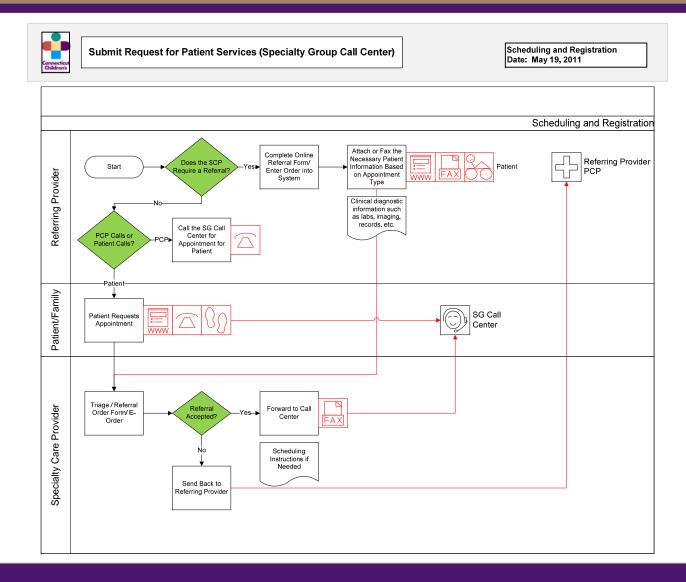
# 2. Centralized Registration

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# 1. Call Center Scheduling

- Job Descriptions Completed for Scheduler I, II and III
- Standard Work Scheduling Script Completed
- Pilot Planning June 7, 2011
  - Pilot departments include Ear, Nose and Throat, Audiology and Hematology/Oncology
  - Estimated (5) five schedulers
  - Training guides in development and training scheduled for the week of 5/30/11
  - Call center to be set up in conference room A/B to include (5) computers, (5) phone ACD, and fax

#### Submit Request for Special Group Services



# Call Center 1-Day Pilot

#### **Key Actions:**

- ✓ Completed Job Descriptions for Scheduler I, II and III
- ✓ Developed Standard Work Scheduling Scripts and Training Guides
- ✓ Developed Books of Scheduling Rules per Department
- ✓ Included Departments: ENT, Audiology, and Hematology/Oncology
- ✓ Estimated (5) five schedulers
- ✓ Set-up Call Center in Conference Room A/B with (5) computers, (5) phone ACD, and fax



# **Measuring Success**

#### Scheduling Accuracy:

 Percent of patients scheduled with the correct appointment type and provider

#### Percent of Call Volume in Call Center:

 Percent of total patients scheduled that are scheduled in the call center

#### Time to Schedule (Cycle Time):

- Total time spent on the phone and entering necessary information into the system
- Patient/Family Satisfaction:
  - Survey scores to each question



# Call Center Week-long Pilot

#### Week-long Pilot Goals:

- Further develop and test concept; validate concept with data collection
- Key questions tested in pilot:
  - 1. Can we include more practices in the pilot?
  - 2. Can we maintain or exceed our results over a longer period?

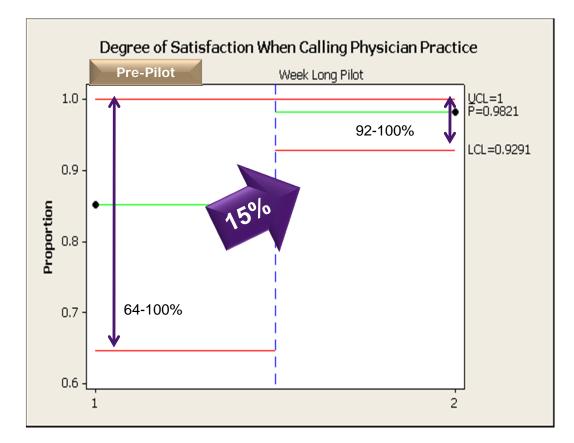
#### **Key Actions:**

- ✓ Expanded scope to include ENT, Audiology, EEG, Neurology and Hematology/Oncology
- Developed Standard Work
   Scheduling Scripts and Training
   Guides
- ✓ Developed Books of Scheduling Rules per Department
- ✓ Included same number (5) five schedulers (most from 1st pilot)
- Set-up Call Center in Conference Room A/B with (5) computers,
   (5) phone ACD, and fax

# Summary of Results

Measure	Pre-Pilot	One Day Pilot	Week Long Pilot						
Scheduling Accuracy	N/A	88%	96%						
# Appointments	pintments N/A		509						
Call Volume Handled	N/A	50%	54%						
Avg. Call Time	N/A	3 minutes 44 seconds	2 minutes 33 seconds						
Overall Satisfaction	48%	70.6	74.5%						
Patient/Family Perception Time Spent >5 minutes	33.3%	26.5%	24.6%						
Ability to Accommodate Needs	88.9%	100%	93.4%						
Scheduler Was Knowledgeable (% Extremely)	50%	55.9%	73%						
Degree of Helpfulness of Scheduler (% Very Helpful)	48%	55.9%	75%						
Patient/Family Satisfied With Process Time	63%	76.5%	67%						
Patient/Family Satisfied With Calling Physician Practice	85%	97%	98%						

## **Call Center Survey Results**



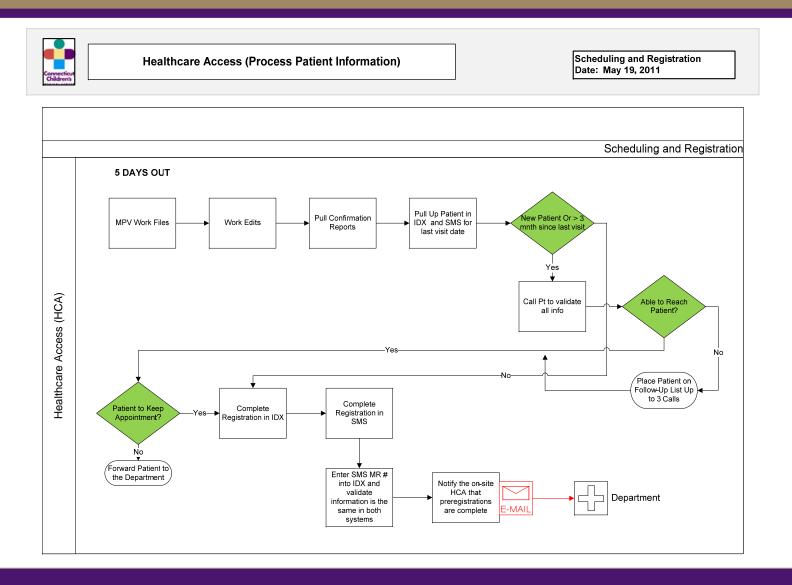
#### **Conclusions:**

- 98% of Patient/Families reported they were "Satisfied With the Experience" when calling the physician practice (up from 85% during the prepilot and 97% during the 1-day Pilot)
- 15% improvement was achieved as well as more consistent, predictable /consistent responses

# 2. Centralized Registration

- Job Descriptions Completed for HCA I, II and III
- Standard Work Scheduling Script Completed
- Policies and Procedures in Process
- Pilot Started May 9, 2011
  - Pilot departments include Ear, Nose and Throat, Audiology and Hematology/Oncology, Emergency Department
  - 4 HCA/Registration Referral Staff
  - Training completed for pilot staff. Training for expansion ongoing
  - Utilizing space at 60 Hartland Street
  - Next steps to analyze design scorecard data from pilot and determine staffing needs for expansion

#### Healthcare Access (Centralized Registration)

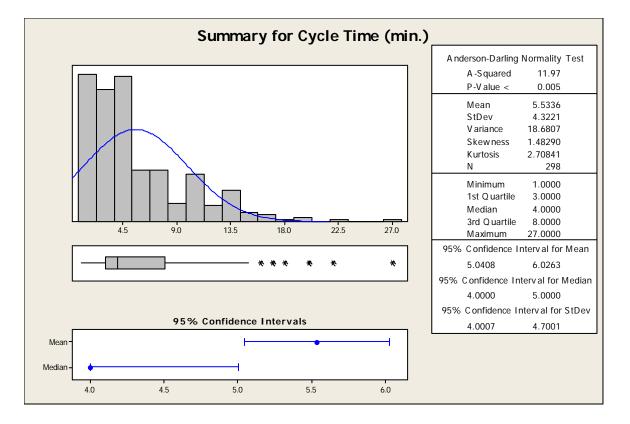


## Centralized Registration Design Scorecard

- Percent of Patients Called for Preregistration
- Time to Preregister (Cycle Time) Total time spent on one patient preregistration
- Registration Accuracy Total number of "cross-outs" returned to HCA
- Percent of Patients with a completed registration prior to arrival

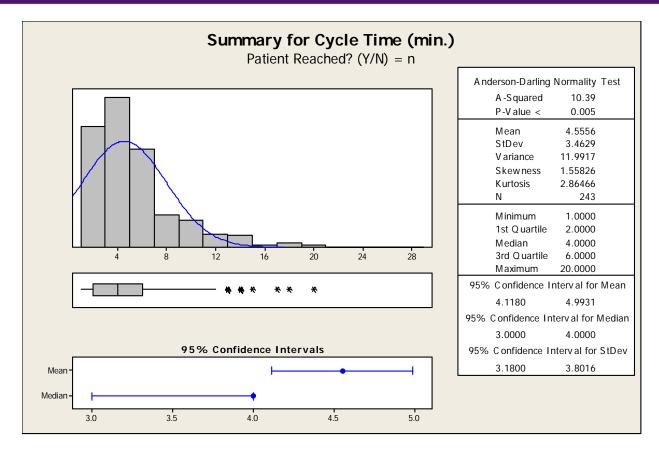
Baseline measurements in Process. To be measured during the pilot for detail design evaluation.

#### Pre-Registration Cycle Time in Both Systems



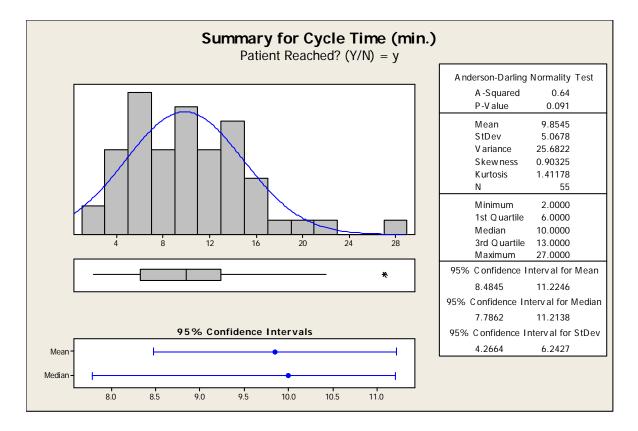
For 298 patients pre-registered, the median cycle time is between 4.0 minutes and 5.0 minutes at the 95% Cl.

#### Patients Preregistered With No Phone Call



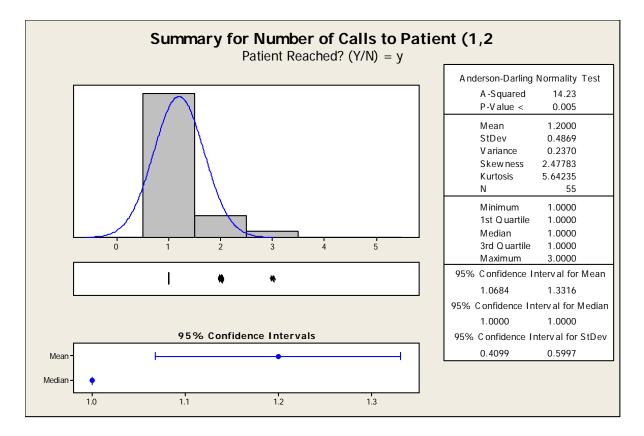
For 243 patients pre-registered *without* a phone call, the median cycle time is between 3.0 minutes and 4.0 minutes at the 95% Cl.

## Patients Preregistered Over the Phone



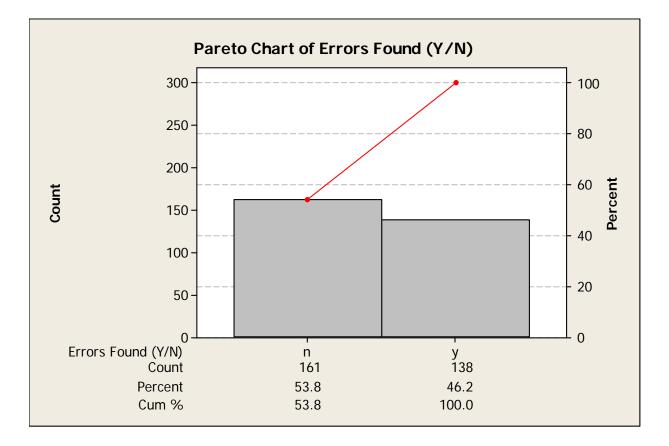
For 55 patients pre-registered *with* a phone call, the median cycle time is between 8.0 minutes and 11.0 minutes at the 95% Cl.

### Number of Calls Made for One Registration



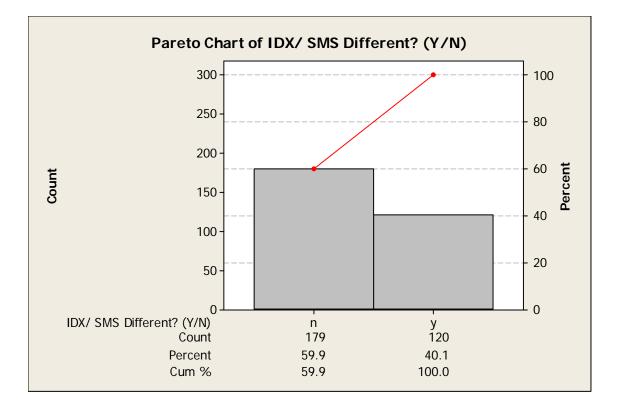
Of the 55 patients called during the pilot, the median number of calls placed to the patient was 1.000 at the 95% CI.

## Errors Found in Either or Both Systems



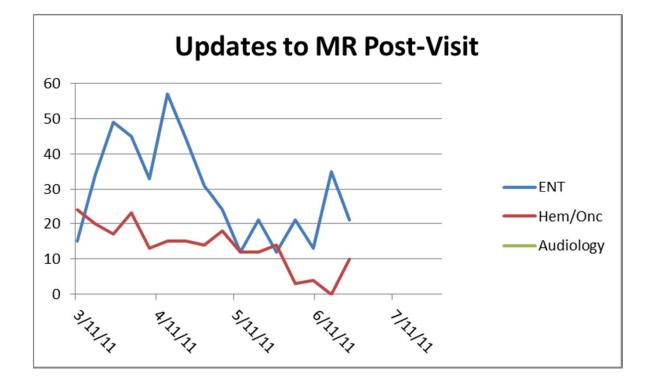
Of the 299 patients preregistered during the pilot, **46.2%** obtained an error in either or both IDX and SMS.

## Do IDX and SMS Agree?



Of the 299 registrations performed during the pilot, **40.1%** had discrepancies in data completeness and/or accuracy between IDX and SMS.

## Updates to Medical Records Post-Visit



Both ENT and Hem/Onc are showing a decreasing trend in the number of updates/cross-outs that have to correctly in the medical record after the visit.

## Potential Staffing Requirements for HCA

	Annual	Total Demand	Total	Total	Total	Total	Total
	Volume	(Called Pts)	Demand	Demand	Demand	Demand	Capacity
Department	Visits	Hrs	(Blind) Hrs	Hrs	Hrs + 20%	Weeks	(Hrs)
SG	112,582 9382		4691	14073		31	930
Radiology	Radiology 21,398		892	2675			
Total	133,980	11,165	5,583	16,748	20,097		
Total HCA Needed	18.0						
Total HCA Needed (20%)	21.6						

Based on a week sample of analysis (samples) for ENT, Audiology and Hem/Onc patients, HCA will need 18.0 registrars (not FTEs) to meet the annual demand of scheduled appointment registrations in both IDX and SMS. The calculation is based on 6 productive hours per day. With a 20% increase in volume or duties, HCA will need 21.6 registrars.

## DMADV

# Define Measure Analyze Design Verify



## **Design Verification Plan**

Design Verification Test	Activity Description	Status	Completion Date	Owner		
Call Center Scheduling	Finalize the departments that will be participating in the pilot.	Approval obtained for Hem/Onc and Audiology. Allen to schedule meeting with Scott Schoem to gain approval for ENT. Tollgate for approval from Project Champions to be scheduled.	~	Allen S.		
Call Center Scheduling	Finalize the total number and identify names for the call center schedulers for at least 5 days.	First estimate for total number of schedulers is (5). Wanda, Yazmin, (1) from Hem/Onc, (1) from Audiology, Leslie (Float) 6/7 only	~	Linda K. (Audiology), Randy S. (Hem/Onc.)		
Call Center Scheduling	Form a pilot planning group to include representation from the Scheduling and Registration team, pilot departments, and leadership.	Recommended membership includes a leader, Nancy Bruno, Alicia Black, Sally Derench, Randy Schwartz, Micheline Nollez (ad hoc), Steve Canzellerini, Lori Neu, identified schedulers.	~	Randy S.		
Call Center Scheduling	Form a pilot steering committee.	Recommended membership includes Allen Starkman, Brian Frawley, Scott Schoem (or designee), Nate Hagstrom, Karen or Deb, Barbara, leader.	5/13/11	Allen S.		
Call Center Scheduling	Identify location for call center for 6/7 and beyond.	Recommended location is 282 Washington.	✓	Brian F.		
Call Center Scheduling	Logistics for scheduler workstations to include phones, computers, supplies, etc.	Need to request Steve C. from Kelly for planning.	✓	Brian F.		
Call Center Scheduling	Create job aids for Call Center Schedulers.	Wanda working on ENT job aid. Linda to get Audiology. Hem/Onc not started.	5/20/11	Pilot Planning Team		
Call Center Scheduling	Provide training for Call Center Schedulers.	Planning in process. Meeting scheduled for 5/25/11 to plan with team.	6/6/11	Pilot Planning Team		
Call Center Scheduling	Evaluate pilot based on process issues discovered and customer design scorecard.	Data collection plan in place for scorecard data.	6/10/11	Pilot Planning Team		
Call Center Scheduling	Determine the duration and dates for continuation of the pilot.	Meeting to be scheduled	6/10/11	Pilot Planning Team		
Centralized Registration	Analyze and report data from the pilot.	Data entry in process	5/27/11	Jonathan F.		
Centralized Registration	Create the centralized registration department (space, staff, equipment, processes, policies and procedures).	Continue current pilot through 5/27/11 and determine the next departments.	9/30/11	Micheline N.		
Centralized Registration	Review Manager/Assistant Manager job descriptions.	In process of being revised.	7/1/11	Micheline N.		
Centralized Authorizations	Plan and implement the initial pilot.	In process	7/1/11	Micheline N. and Linda K.		
Centralized Authorizations	Analyze and report data from the pilot.	Data entry in process	7/1/11	Micheline N.		
Centralized Authorizations	Review job descriptions	Not Started	7/1/11	Micheline N.		
Centralized Authorizations	Create the centralized authorization department (space, staff, equipment, processes, policies and procedures).	Not Started	9/30/11	Micheline N.		

## **EHR** Validation

	5.0 Verify					Design Plans and Documentation						Transfer to Operations	2011			2012		12					
5 # q	Function	Design Feature	Definition	eHR Category	Epic Module	Epic Workflow	Comments	Difficulty to Implement (Low/Med/High)	Initial Phase / Priority	Workflow	Policy & Procedure / Standard Work	Human Resources Plan	Facilities Plan	IT Plan	Materials, Equipment & Supplies Plan	Service Level Agreement	Description of Next Steps / Plans to Implement	Q1 Q2	Q3	Q4	Q1	Q2	Q3 Q4
18 1	5 Receive Request for Patient Services	1-800-CT-4KIDS (1-800-284- 5437)	Upgraded phone system to allow one phone number for referring providers/patients to access the call center to schedule appointments.	Independent	N/A	N/A		Hard	2								No action planned. Reconsider after Phase 1 & 2 features completed.						Design w/ eHR
21 1	All Functions	Cross-Training	Develop and provide standard training that allows any staff member to perform both scheduling and registration functions.	Independent	N/A	N/A		Hard	2	х	х	х					To be completed pending the results of the pilot and final decisions on call center design.	Pilot	Pilot	Pilot	Pilot	Pilot	Implement
1 2	7 Gather Patient Information	ID Cards	A patient identification card that contains a magnetic strip or micro chip that is unique to each patient.	Independent				Hard	3								No action planned. Reconsider after Phase 1 & 2 features completed.					Budget	Design w/ eHR
8 5	2 Find Appointment	Limited Appointment Types	Optimize the number of appointment types to ensure accurate and complete scheduling.	Independent	Cadence	Scheduling an Appointment	11/28/2011	Easy	2		х			Х			Part of scheduling guidelines designed by each department.	Pilot	Pilot	Design w/ Epic			Implement
80 6	2 Receive Request for Patient Services	Live Chat/Instant Messenger	Allows referring providers/patients/staff to chat live with a call center person to schedule an appointment/other customer service needs.	Independent				Moderate	2					х			No action planned. Reconsider after Phase 1 & 2 features completed.				Design w/ eHR		
51 1	3 All Functions	Repeat Back	Error prevention technique that ensures effective communication.	Independent	N/A	N/A		Easy	1A	х	х						Completed as part of scheduling/registration scripts.	Pilot	Pilot	Implement			
28 1	6 All Functions	Standard Scheduling/Registration Work Flows	Develop and provide standard work flows for call center and registration iob roles.	Independent	Cadence/Prelude	Scheduling an Appointment/Patien t Registration	11/28/2011	Moderate	1A	х	х	х					Completed. Need revision for Epic workflows.	Pilot	Pilot	Design w eHR			Implement
54 1	0	Standard Script	Develop a standard script for scheduling and registration services to optimize communication with referring providers/batients.	Independent	N/A	N/A		Easy	1A	х	x						Completed. Need revision for Epic workflows.	Pilot	Pilot			$\square$	Implement
74 4	Al Functions Al Functions	Standard Training	Develop and provide standard training for all scheduling and registration job roles.	Independent	N/A	N/A		Moderate	1A	х	х						Completed. Need revision for Epic workflows.	Pilot	Pilot		İ		Implement
90	AI Functions	Two Standard Job Roles	Call center staff standard job description, policies and work flows. Registration staff standard job description and work flows.	Independent	N/A	N/A		Easv	1A	х	х	х					Completed. Need revision for Epic workflows.	Pilot	Impleme	nt		Design	Implement
78 5	3	Visual Phone Queue Management	Upgraded phone system to allow productivity management to include call time, wait time, number of calls in gueue, number of dropped calls, etc.	Independent	N/A	N/A		Easy	2					х	х	х	To be implemented as part of the control plan once updated phone system in place.				Design	Design	Implement
89	Receive Request for Patient Services	Webcam	Allows referring providers/patients/staff to see and speak to a live call center person to schedule an appointment/other customer service needs.	Independent	N/A	N/A		Easy	2					х	х		No action planned. Reconsider after Phase 1 & 2 features completed.				Design	Design	Implement
42 5	3		Allows referring providers/patients to schedule an		Cadence	Scheduling an Appointment	11/28/2011		2	х	x					х	No action planned. Reconsider after Phase 1 & 2 features completed.			Design w			Implement
11 7	All Functions All Functions	One Stop Shopping Alert/Alias Flag for Special Handling	appointment and complete registration in one phone call. The ability to flag patient's record for special handling considerations.	Enhanced	Cadence	Scheduling an Appointment	11/28/2011	Hard	2		x			х			Refine Measurable Requirements based on Epic Design Implemention Guides; communicate these to Epic			Design w/ eHR			Implement
16 1	3 Process Patient Information	Automated Electronic Eligibility	Automated insurance verification that does not require staff intervention.	Enhanced	Prelude	Patient Registration	11/28/2011	Hard	1B					Х			communicate trese to Epic			Design w/ eHR			Implement
61 8	B Process Patient Information	Automated Insurance Notification						Easy	1B	х	х						Completed.			Design w/ eHR			Implement
84 8	1	Automated Reporting	The ability to generate reports automatically out of the						3	х				x			No action planned. Reconsider after Phase 1 & 2 features completed.			Design w/ eHR			Implement
19 1	All Functions	Capabilities	system for process control and scorecards.	Enhanced	Prelude	Patient Registration	11/28/2011	Hard	3	x				x			No action planned. Reconsider after Phase 1 & 2 features completed.			Design w			Implement
	Process Patient Information	Auto-Populate Insurance Information	The system will automatically post back when insurance eligibility is validated.	Enhanced				Hard												enk			

#### See Verify Workbook

## Thank You!

