Electronic Surgical Scheduling Improves Patient Safety and Productivity



Katrina Spears, MA, Manager Business & Informatics Surgical Services

Lina Munoz, BSN, RN, CPAN Manger Presurgical Testing, PACU, SCP



Inspiring medicine. Changing lives.

Advocate Good Samaritan Hospital Downers Grove, IL

- 11 hospital health system
- 333 bed hospital
- 15 Ultra Modern OR suites
- 10,000 cases annually
- 235 board certified surgeons
- Level I Trauma Center

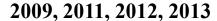


Advocate Good Samaritan Hospital National Recognition for Excellence















2008, 2009, 2010, 2011, 2012, 2013

2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013



100 Great Hospitals 2012, 2013



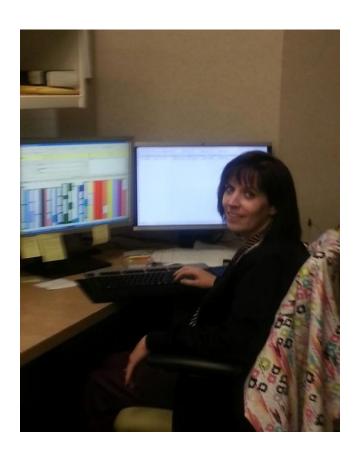


#1 in Illinois & #4 in the USA for Overall Hospital Care 2010



Advocate Good Samaritan Hospital

Karen "SURGICAL SCHEDULER"



SCHEDULING FAX FORM

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Surgery Scheduling Fax # (630) 275-	5535				5

BOX 1: Reason for Action

The surgery scheduling fax form is rejected back to the surgeon office multiple times prior to the date of surgery.

Boundaries

- Trigger: Office faxes form to Surgery Scheduling
- Done: Patient chart is completed in Pre-Surgical Testing

In Scope:

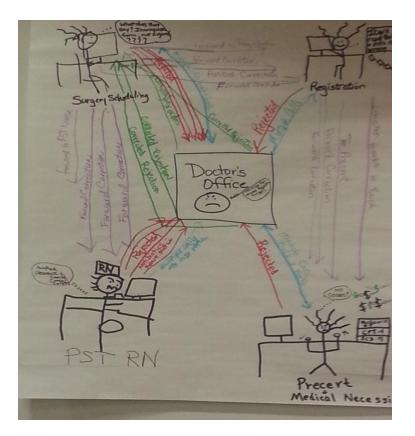
 All cases scheduled using surgical fax form

Out of Scope:

Same day add-on cases

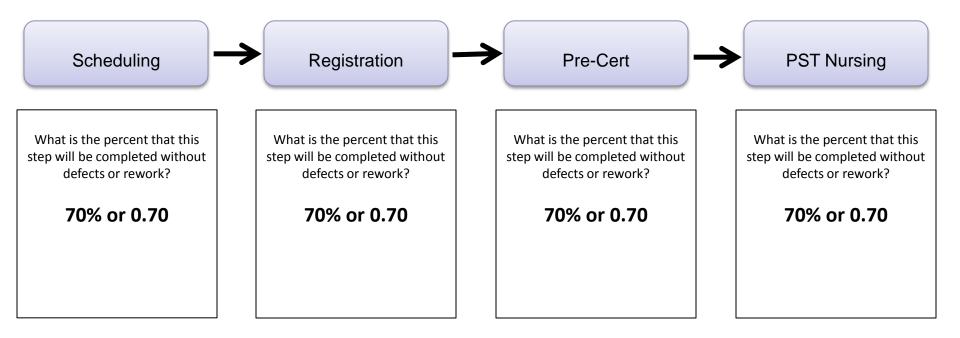
BOX 2: Initial State

- Untimely availability of pre-op medications
- Multiple defects causing workaround
- Incomplete/ missing information
- Inconsistent antibiotic selection process
- Missing codes, diagnosis and procedure
- Less than optimal pre-op preparation of patients
- Denials for medical necessity
- Denials for "inpatient only"
- Illegible handwriting
- Missed pre-op orders
- Patient, physician, and associate dissatisfaction



Metric	Initial	Target	Confirmed
Cancellation Rate (24 hrs prior to surgery)	3%		
% of Rejections back to office	960 month		
% Electronic Orders Received	0		

Scheduling Form Initial State



First Pass = 0.70 * 0.70 * 0.70 * 0.70

= 24% chance of a scheduling form going through all four processes without defects or rework

To Follow				
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Seeing Value Added vs. Non-Value Added

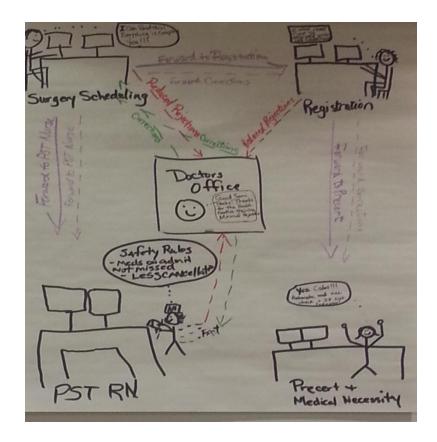


On average 90% of all process steps are non-value added

TOTAL CYCLE TIME

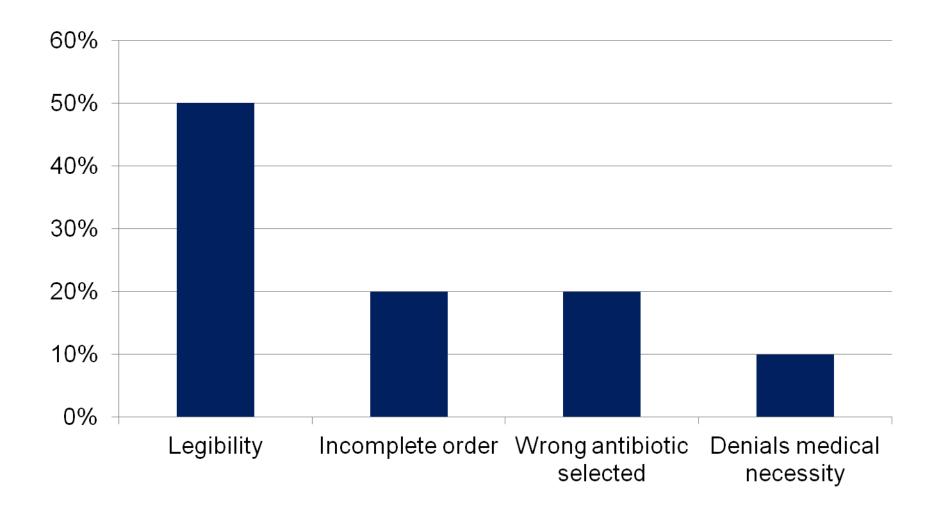
BOX 3: Target State

- Minimal Rejections
- 100% antibiotic selection
- Complete Pre-Op Testing
- Decreased cancellations for clearance
- Auto-Indexing
- Laterality
- Codes Required
- Auto medical necessity check
- Legibility
- Medicare inpatient list
- Decreased denials
- Increased satisfaction (associate, physician, and patients)
- Timely profiling of pre-op meds



Metric	Initial	Target	Confirmed
Cancellation Rate (24 hrs prior to surgery)	3%	1%	
% of Rejections back to office	960 month	480 month	
% Electronic Orders Received	0	90%	

BOX 4: Gap Analysis



BOX 5: Solution Approach

If we	Then we
have legible writing on the surgery scheduling order	can make safe choices
have all fields completed	can efficiently receive information
can drive choices by CPT codes	can improve core measures
spend less time rejecting surgery orders	have more time to prepare the patient for surgery

BOX 6: Rapid Experiments

1.

 Begin piloting electronic order with Medical Director of Surgery's office for two weeks

2.

 Allow scheduling, registration, precert, pre-surgical testing RN and PreOp to perform tasks using new electronic form

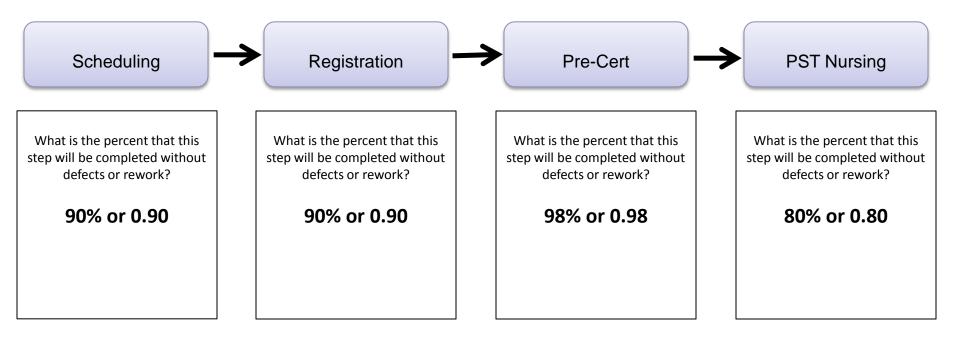
BOX 7: Completion Plan

What	Who	When
Schedule Block Surgeons Offices to deploy electronic form	Katrina/ Lina	5/1/12
Schedule Onsite classes for remaining surgeons	Katrina	6/1/12
Improvements based on Surgeon office feedback	HealthNautica	6/1/12
Linked CPT to SCIP procedures	Lina/ HealthNautica	6/1/12
Linked CPT to laterality	Katrina/ HIM Coder	6/1/12
Create ability to attach additional standard orders	HealthNautica	6/1/12

BOX 8: Confirmed State

	Initial	Target	Confirmed
Cancellation Rate (24 hrs prior to surgery)	3%	1%	.40%
% of Rejections back to office	960 month	480 month	96 month
% Electronic Orders Received	0	90%	97%

Electronic Scheduling Form



First Pass Yield = 0.90 * 0.90 * 0.98 * 0.80

= 64% chance of a scheduling form going through all four processes without defects or rework

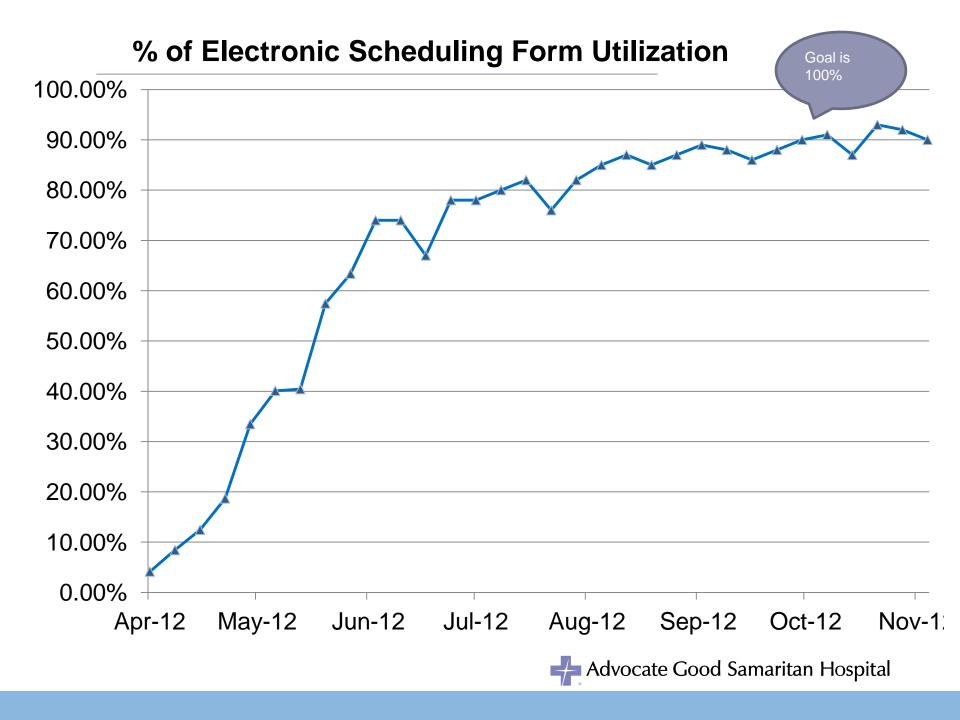
% of Cases Cancelled within 24 Hours of Surgery Percentage Cancelled for Clearance within 24 Hours of Surgery



IMPLEMENTATION

- Training Manual
- Block Surgeon
- Office Visits Training
- Onsite Classes
- ContinuousImprovements to Form

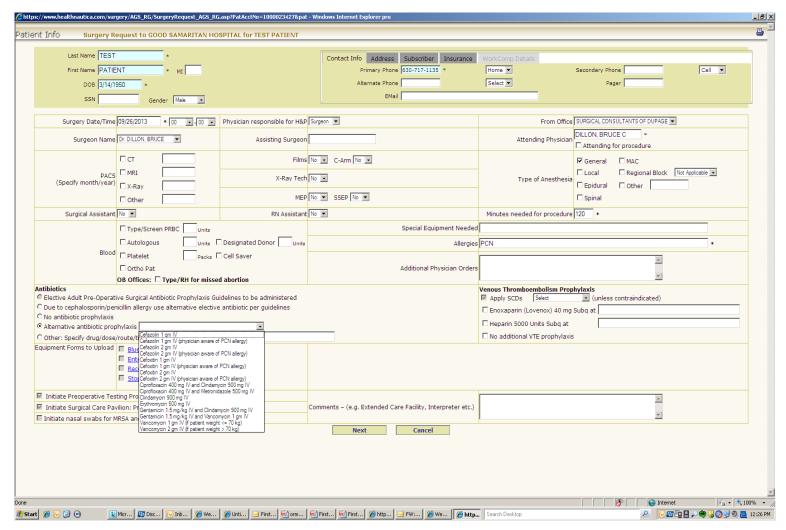




ACHIEVED OUTCOMES

- CMS denials
- SCIP Score
- Physician Satisfaction
- Patient Satisfaction
- Physician order form
- Identify self pay patients
- Scheduling form- Safety features

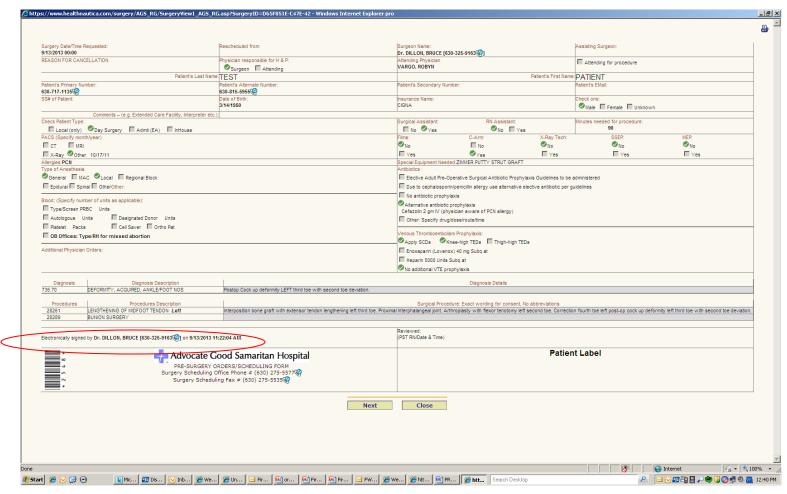
CORE MEASURES

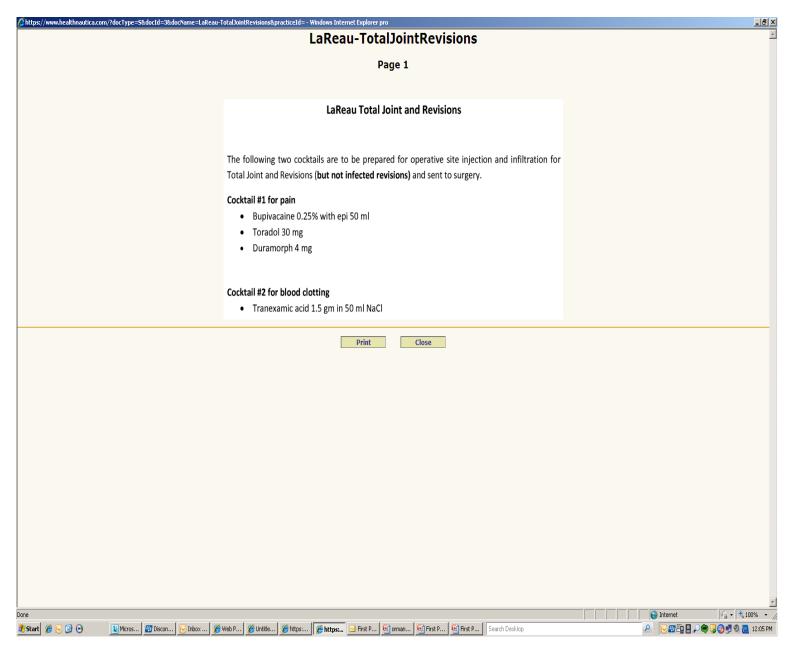


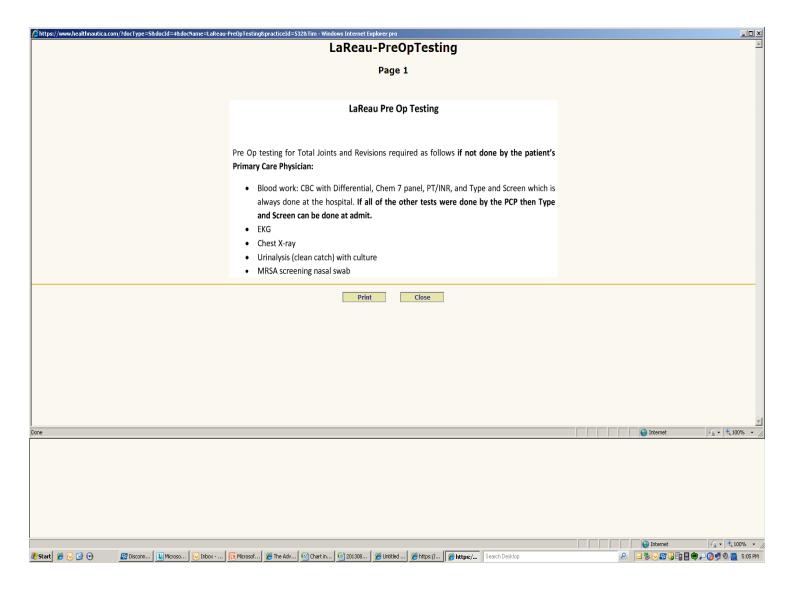
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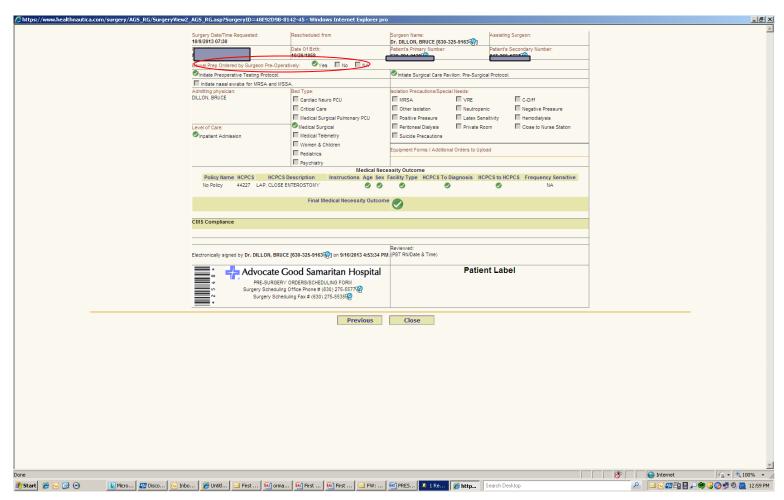




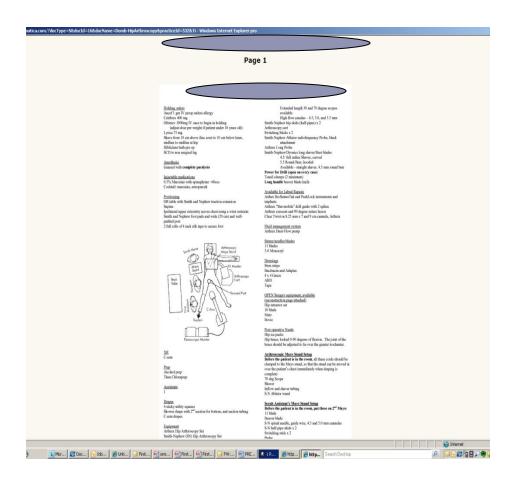


Additional Physician Orders

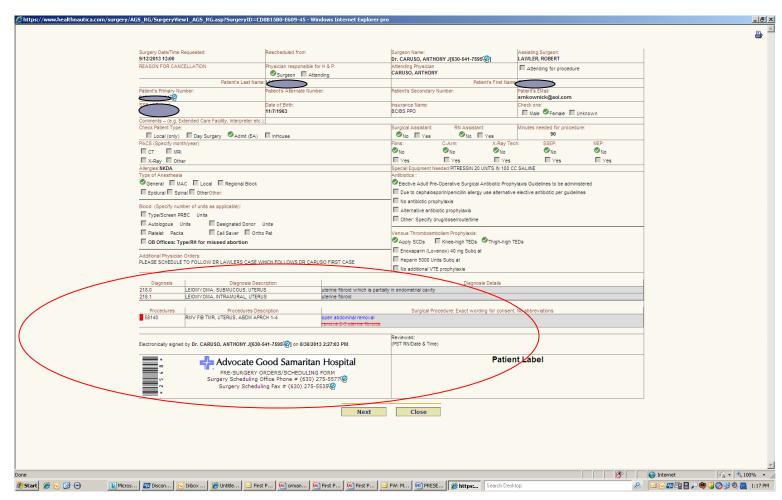
CLINICAL OUTCOME



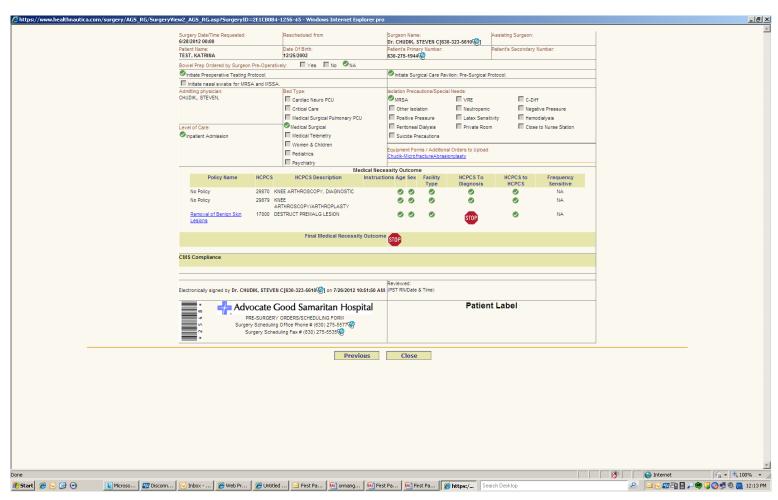
PREFERENCE CARD



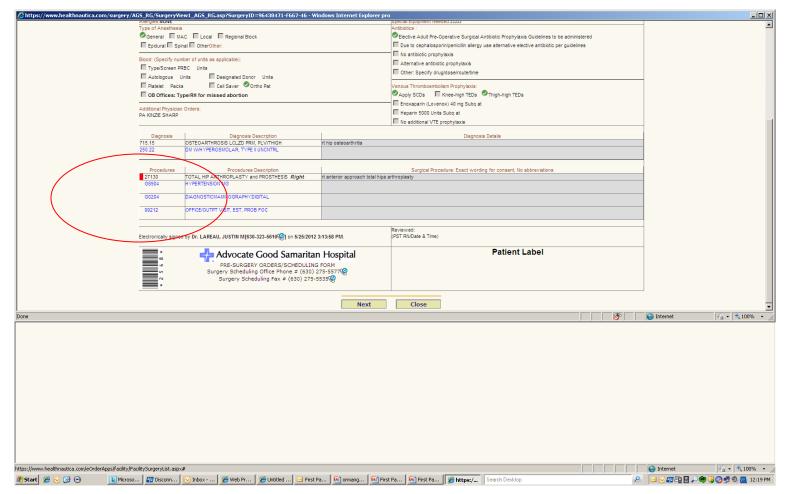
SCHEDULING FORM CHANGES



MEDICAL NECESSITY CHECK



INPATIENT ONLY



TOTAL JOINT PRE-PAYMENT

Date of Birth: Patient's Primary Number: Patient's Secondary Number: Patient's Seconda	Surgery Date/Time Requested: 8/23/2013 14:00	Rescheduled from	Surgeon Name: Dr. LAREAU, JUSTIN M	Assisting Surgeon:
I. PATIENT HISTORY: Check all that apply: Non-union or failure of previous hip fracture Fracture femoral neck Acetabular fracture Malignancy Location: Other: Malunion of acetabular or proximal femoral fracture Advanced joint disease (X-ray/MRI confirmed) - Check all that apply: OFFICE TO FAX DIAGNOSTIC/EXAM REPORT TO GOOD SAMARITAN SURGICAL PRE-CERT COORDINATOR AT (630) 275-5635 ACCOMPANIED BY A COVER SHEET WITH PATIENT IDENTIFICATION INFORMATION TO AVOID REJECTION. Subchondral cyst Subchondral selerosis Periarticular osteophytes Joint Subluxation Joint space narrowing Avascular necrosis Other II. CURRENT SYMPTOMS: Pain or functional disability from - Check all that apply: Injury due to trauma Arthritis of the joint Complications of internal prosthetic device Description Avascular necrosis III. PAST TREATMENTS: Unsuccessful conservative treatment of at least a three month duration - Check all that apply: Anti-inflammatory meds Naproxen Analgesics Norco PT (flexibility and muscle strengthening) Activity restriction(Please specify WB status) ACTIVITY MODIFICATION Use of assisted device Weight reduction as appropriate Therapeutic injections as appropriate Active sint infection of knee or active systemic bacteremia Active skin infection or open wound within planned surgical site True False Neuropathic arthritis Rapidly progressive neurological disease	8/23/2013 14:00 Patient Name:	Date Of Birth:	Patient's Primary Number:	Patient's Secondary Number:
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BOX 9: Insights and Reflections

- Technology is expandable
- Amount of rejections
- Total Joint Prepayment Opportunity
- Doesn't stop all rejections (human error factor)
- Patients called earlier= fewer cancellations= better optimization
- More time to complete process
- Less pressure
- Office relief to have more time to work on clearance issues
- Offices ability to adapt to the electronic form quickly
- Respectful of people
- Time saved not looking up codes in books
- Less follow up with offices (less phone calls)
- Physician office partnership
- Opportunities for improvement
- Capture block releases

QUESTIONS??????