The Ohio State University Fisher College of Business

Master, Business Operational ExcellenceHealthcare Capstone Project Review

Patricia C. Mahoney 12/10/2012

- A Process Improvement Initiative in a Medical Faculty Group Practice (FGP) Central Business Office (CBO)
- FGP : Approximately 600 clinical FTE physicians
- Annual Gross Charges FY2011: \$841+M
- Annual Insurance Claims Produced: 2M+
- Specialty Patient Care Provided at 5 Hospitals;
 Primary & Specialty Care at 11 Outpatient & Rehab clinical venues
- Internal KPI & Industry metrics for RVU, Charges, Collections, Lags, Claim denial rate, etc.
- Faculty Group Practice CBO:
 - Produce & transmit claims, patient statements; post payments; respond to customer billing inquires
 - Fix claim defects & resolve claim denials to obtain payment – "rework"
 - Corrections- a hidden cost & statistic, often result of internal processes, behaviors,

Capstone Project: Study of a Flow problem and a Cause problem: Corrections

TITLE: Charge Correction Process Improvement at FGP Physicians Corporate **Business Office**

Date: 12/10/12

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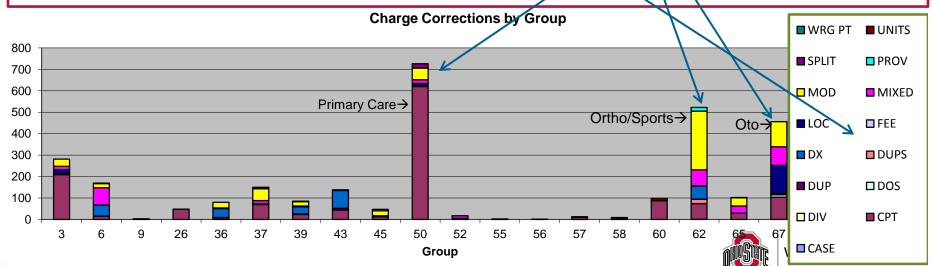
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Owner: Pat Mahoney Coach: B.K. Sponsor: G.S.

Team: M. M., B. O., T. P., L. S., J. T., E. W., A. W., S.T., T. A., K.D.

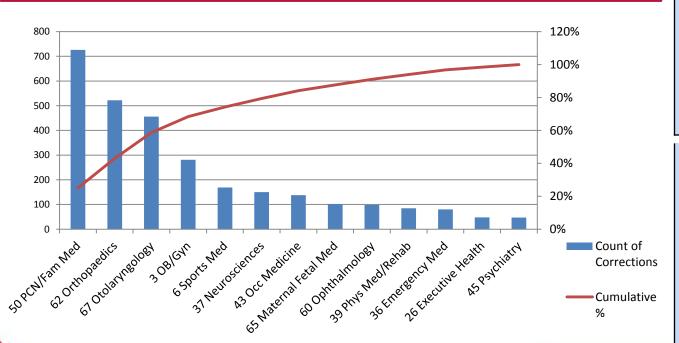
Background and Problem Statement:

- •Appx. 225 Charge Corrections are generated weekly based on 13 week sample in 2011
- Accounts receivable impact: \$90K estimated weekly for corrections & rework
- Cost associated with processing corrections: <u>1.5 FTE+</u>
- •No standard measures & tracking of the activity in place.... \$\$ impact could be more!
- Charges are corrected for a variety of reasons.
 Some Clinical Departments' activity denoted by Group # - generates more corrections than others.
- •PROBLEM: A/R management focus on Corrections vs. Collections. Staff doing non-value added re-work. A/R \$dollars are tied-up in receivable delaying cash collections.

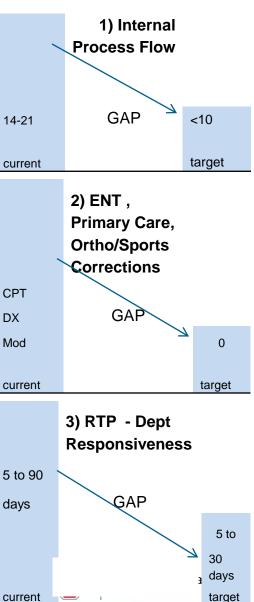


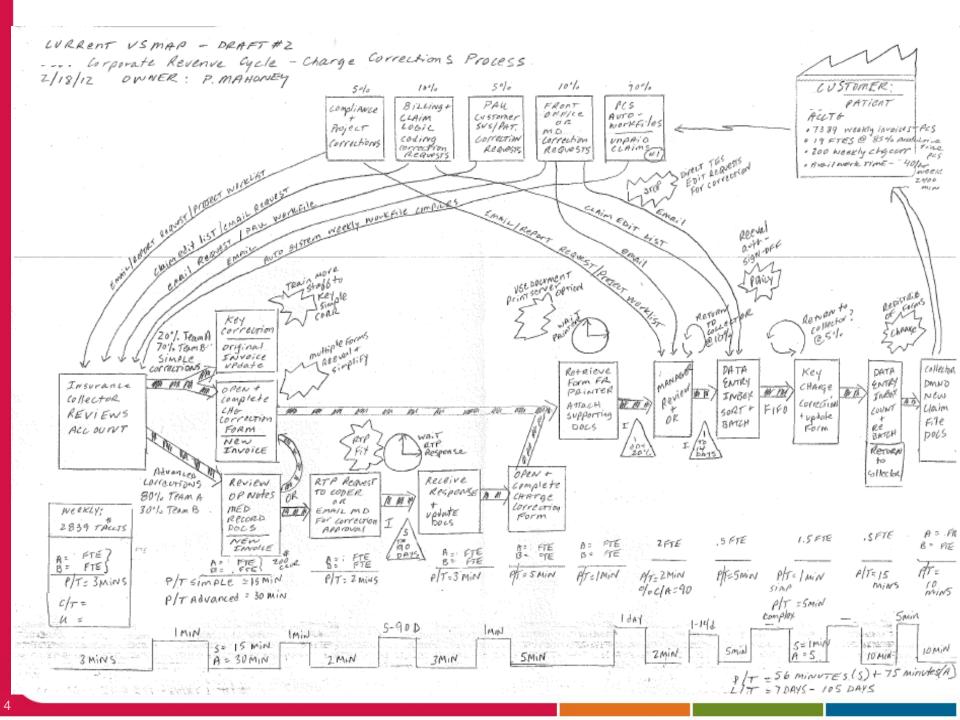
Current Conditions:

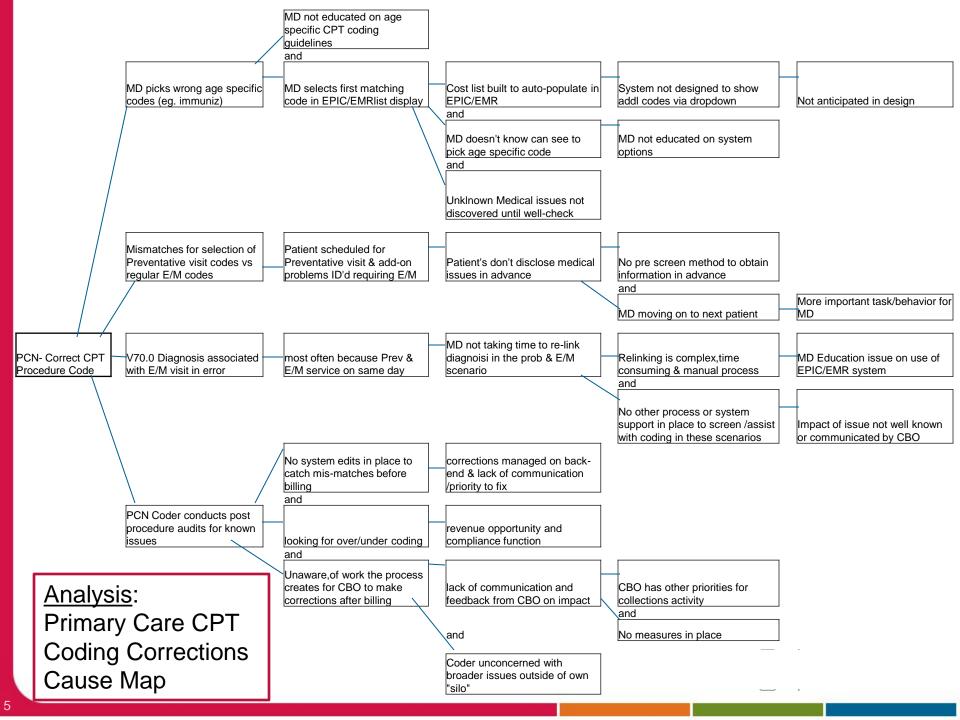
- •Typical lead time to complete charge corrections during A/R follow-up: 14-21+ days (105 day outliers occur!)
- Current correction processing time: 56 minutes
- Multiple information flows drive charge corrections
- Periodic back-logs occur at various points of the office workflow
- •3 Collection teams (27 employees) initiate the work. Volume varies by team. A 4th team is on-boarding June 2012, increasing expected activity.
- •3 Clinical Departments/Groups activity comprises/generates most charge corrections

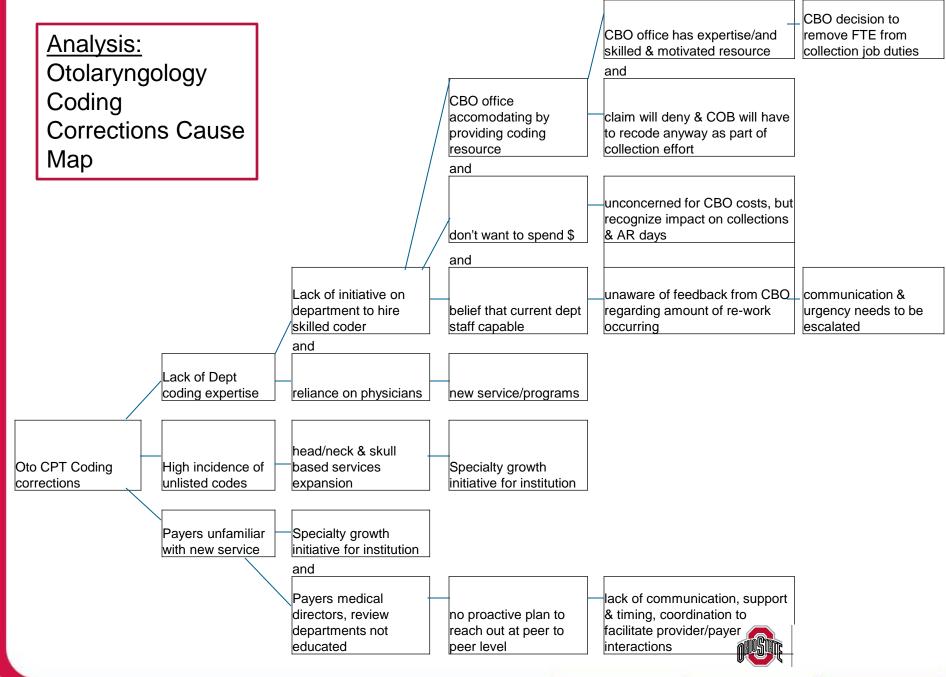


3 Fundamental Issues:









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PROBLEMS:

-A/R management focus on Corrections vs.

Collections.

- -Staff doing non-value added re-work via untimely & inefficient process
- -A/R \$dollars are tiedup in receivable delaying cash collections.

<u>Charge Correction Improvement Project</u> <u>Goal/Targets</u>:

1) Reduce (process) lead time from 14-21+ days to <10 days. Move necessary corrections through the system more efficiently.

Target date: FY2013 Q1

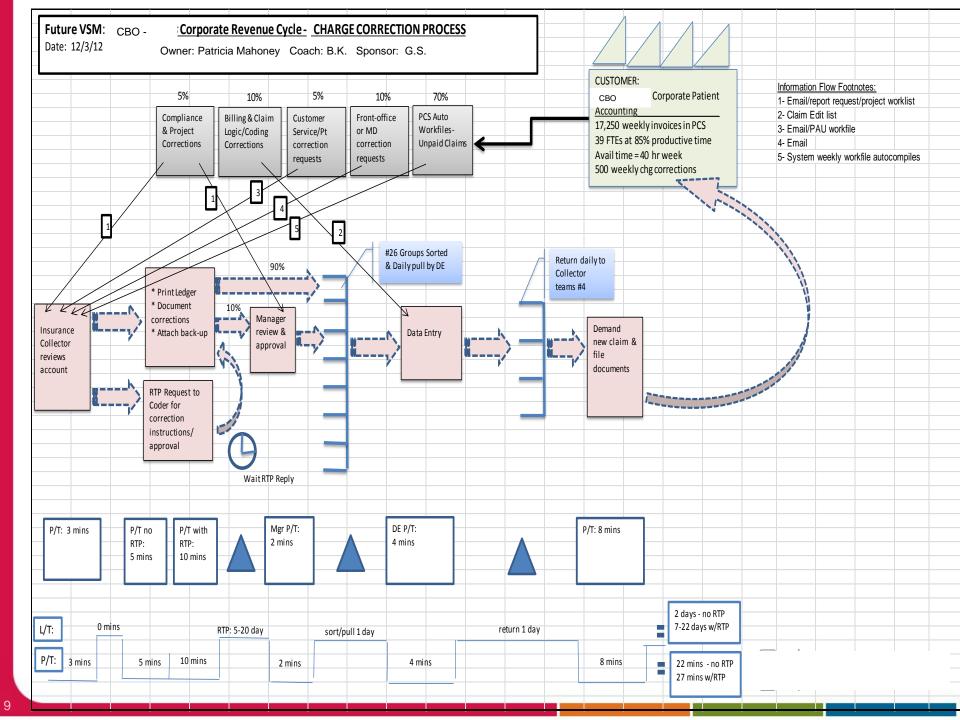
 2) Reduce incoming charge corrections and A/R \$dollar impact for 3 key groups by 50%.

Target date: FY 2013 Q1

 3) Shore-up the measurement system to produce reliable, consistent charge correction data and reports. Validate sample.

Target date: FY2012 Q4

		COUNTER MEASURES)					
<u>ltem</u>	Reference	<u>Cause</u>	Counter measure	<u>Effective</u>	Feasibility	<u>Implement</u>	Cost	Total Eval
1	Goal #3	Absence of Measures/Data collection system	* Build Data Capture methodology. *Obtain consensus & approval. * Load to system, train staff & test process. *Populate database & produce trending reports	4	4	4	none	12
2	Goal #1/& VSMap FLOW	Multiple forms in use by CBO staff	*Redesign transmittal forms to include drop-down boxes, less key entry, less paper.* Project team to lead experimental beta beginning 6/14.	3	4	4	none	11
3	Goal #1/& VSMap FLOW	Bottleneck for100% Manager review & approval	Identify FAST TRACK vs. Review correction criteria. FT/no review items direct to Keypunch. *Determine service turn-around commitment. * Balance Mgr workload by involving Team Leads in approval process. Develop visual cues/andon to trigger help.	4	4	3	none	11
4	Goal #1/& VSMap FLOW	Bottleneck for keypunch	Service agreement in place for daily submittal of work. Trial supermarket type set-up to manage "pull" system based on FIFO. Standardize processing by group to eliminate extra "sorting" by keypunch. Cross train addl. Keypunch resources.	4	3	2		9
5	Goal #1/& VSMap FLOW	Paper flow	Implement electronic request system	4	1	1	\$	6
6	Goal #2 CAUSE	Groups unaware of correction volume, rework and A/R \$ impact	Reporting solution (item 1). Communication and further 5 why at Rev Cycle sessions. Work with PCN coders to develop system/process (TES) for holding charges "upstream" for audits.	4	3	2	none	9
7	Goal #1/& VSMap FLOW	RTP Response time from coders variable and without standard or accountability. SCN/sports & Ortho.	Set standard/expectation for RTP turnaround & hold groups accountable. Communicate to Rev Cycle leaders. Formalize internal escalation process. Report outliers for action.	4	4	3	none	11
8	Goal #2 CAUSE	Business office coding & recoding ENT activity (skull based surgeries & H/Neck surgeries)	Stop coding in CBO. ENT department will hire a subject matter expert to perform this activity in support of MDs & it will occur PRE charge entry.	4	4	4	\$\$	12
9	Goal #2 CAUSE	MD Education- coding & system use.	Work with PCN and EPIC EMR facilitators to identify & implement training	4	2	2	?	8
10	Goal #2 CAUSE	System issues- Faulty system design (EMR coding selector?) and billing system coding safety net under- utilized (TES/Claims manager)	Gemba MD EMR workflows with PCN to confirm. Pull correction examples for no safety catch and review with TES/CM work group for solution.	3	3	2	none	8
3								



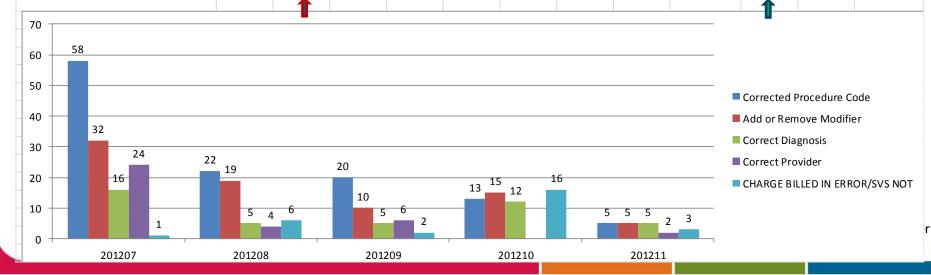
		COUNTER MEASURES	high)	, ψψψ_		
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<u>Item</u>	Reference	<u>Cause</u>	Counter Measure * Build Data Capture methodology. *Obtain	Score	<u>Status 9/9/2012</u>	<u>Status 12/3/2012</u>
1	Goal #3	Absence of Measures/Data collection system	concensus & approval. * Load to system, train staff & test process. *Populate database & produce trending reports	12	85% Complete. Background work complete. Database in place. Monthly trending report to be finalized & rolled out.	100% COMPLETE
2	Goal #1/& VSMap FLOW	Multiple forms in use by CBO staff	*Redesign transmittal forms to include drop-down boxes, less keyentry, less paper.* Project team to lead experimental beta beginning 6/14.	11	90% Complete. Single screen shot Ledger form selected after trial of 3 options. Standard work flow devloped with document. Resolved printer equipment barrier to this countermeasure. Team training & implementation 9/10-9/28 for all teams.	100% COMPLETE. Live in Production 10/2012
3	Goal #1/& VSMap FLOW	approval	Identify FAST TRACK vs. Review correction criteria. FT/no review items direct to Keypunch. *Determine service turn-around commitment. * Balance Mgr workload by involving Team Leads in approval process. Develop visual cues/andon to trigger help.	11	95% Complete. Re-categorized Manager review requirements & added Team Leads to review process, reducing bottleneck. New flow will be implemented with forms (item #2) roll-out. Visual management of process to be finalized.	100% COMPLETE. Live in Production 10/2012
	Goal #1/& VSMap FLOW	,,	Service agreement in place for daily submittal of work. Trial supermarket type set-up to manage "pull" system based on FIFO. Standardize processing by group to eliminate extra "sorting" by keypunch. Cross train addl. Keypunch resources.	9	75% Complete. Pull & sort system will be adjusted/finalized as part of roll-out (item #2). Position duties in Keypunch realigned creating capacity for crosstraining/back-upcharge correction FTE in 8/2012.	100% COMPLETE
5	Goal #1/& VSMap FLOW	Paper flow	Implement electronic request system	6	No action- Determined countermeasure not feasible at this stage.	No action- countermeasure out of scope
6	Goal #2 CAUSE	Groups unaware of correction volume, rework and A/R \$ impact	Reporting solution (item 1). Communication and further 5 why at Rev Cycle sessions. Work with PCN coders to develop system/process (TES) for holding charges "upstream" for audits.	9	30% Complete.	60% Complete. Reporting roll-out scheduled for January 2013 Revenue Cycle meetings. CFO Monthly Corporate KPI reports updated to include Charge Correction metric effective 12/2012.
7	Goal #1/& VSMap FLOW	RTP Response time from coders variable and without standard or accountability. SCN/sports & ortho.	Set standard/expectation for RTP turnaround & hold groups accountable. Communicate to Rev Cycle leaders. Formalize internal escalation process. Report outliers for action.	11	100% Complete. Rolled out expectations at May/June Revenue Cycle Meetings. Internal escalation process established between staff/Managers. Improvements noted with Ortho/Sports. Need to establish on-going reminders/reporting to assure accountability & compliance (add to Control phase/chart).	100% COMPLETE
	Goal #2 CAUSE	Business office coding & re-coding ENT activity (skull based surgeries & H/Neck surgeries)	Stop coding in CBO. ENT department will hire a subject matter expert to perform this activity in support of MDs & it will occur PRE charge entry.	12	100%Complete. New coder started 5/2012. Positive impact reported by staff. Allowing COB employee opportunity to assume F/U work with addl. Groups. Need to validate outcome with objective measure of charge corrections data and A/R aging improvements.	100%COMPLETE. 56%decrease in volume of average monthly corrections processed FY2013 YTDNov vs. FY2012
		MD Education- coding & system use.	Work with PCN and EPIC EMR facilitators to identify & implement training	8	10% Complete	25% Complete
	Goal #2 CAUSE	System issues- Faulty system design (EMR coding selector?) and billing system coding safety net under- utilized (TES/Claims manager)	Gemba MD EMR workflows with PCN/Other groups to confirm. Pull correction examples for no safety catch and review with TES/CM work group for solution.	8	5% Complete	25% Complete. Tes edits in place
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Evaluation Scale= (0 Poor, difficult) (4 Excellent) (\$-low, \$\$\$-

Acti on		Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12
ltem:	Description	Wk 1 Wk 2 Wk 3 Wk 4	Wk 1 Wk 2 Wk 3 Wk 4	Wk 1 Wk 2 Wk 3 Wk 4	Wk1 Wk2 Wk3 Wk	4 Wk 1 Wk 2 Wk 3 Wk 4	Wk 1 Wk 2 Wk 3 Wk 4	Wk1 Wk2 Wk3 Wk4	Wk 1 Wk 2 Wk 3 Wk 4	Wk 1 Wk 2 Wk 3 Wk 4	Wk1 Wk2 Wk3 Wk4
	Project team assembly & Current State VS mapping	Complete: 1/24-2/24/12									
2	Measurement system development & approval			Complete: 3/7-5/24/12							
	Otolaryngology Coding Corrections - Cause Countermeasure		Complete: Leadership	Negotiations 2/2012; FTE C	Coderhired 5/2012						
	PCN Coding Corrections- Cause Countermeasure				Ongoing: Lo	eadership Communications	for process improvements	in 2012; Cause mapping o	completed 6/2012		
	Sports/Orthopaedics Coding Corrections-Cause Countermeasure				12; RTP response time cor ent/accountability for tim	nmunication & solution, ser lely work in place.	vice				
	Explore/evaluate system set- ups & build safety-net. Cause Countermeasure									Ongoing: 9/2012- TES	edits
	Future State VS mapping- implement Flow Countermeasures					Complete: 6/	12-10/31/12; VSM leveled	l work, reduced bottlenecks	i, improved flow & P/T; Nev	v process live 10/2012	
i	Develop & test standard work, adjust, train staff & implement - Flow Countermeasures					Col	mplete: 5/14-8/14/12; BE	TA 9/4/12 -9/21/12			
	Education (coding & IHIS)- Cause Countermeasure										ports developed 11/2012. a Rev Cycle meetings
į	Future PDCA: Evaluate, adjust 2/2013 for Imaging system roll-out & impact to process flow.	Planned for	Feb 2013								

Correction Project Win: Otolaryngology

Otolaryngology Summary by Re												
			FY2012								FY 2013	
		FY 2012	Total %							FY 2013	Total %	
	FY 2012	Monthly	by							Monthly	by	
Row Labels	Total	Avg	Reason	201207	201208	201209	201210	201211	FY 2013 Total	Avg	Reason	Grand Total
Corrected Procedure Code	449	37	21.74%	58	22	20	13	5	118	24	31.47%	567
Add or Remove Modifier	457	38	22.13%	32	19	10	15	5	81	16	21.60%	538
Correct Diagnosis	105	10	5.08%	16	5	5	12	5	43	9	11.47%	148
Correct Provider	551	55	26.68%	24	4	6		2	36	9	9.60%	587
CHARGE BILLED IN ERROR/SVS NOT	69	17	3.34%	1	6	2	16	3	28	6	7.47%	97
Misc/Other	77	7	3.73%	2	5		13		20	7	5.33%	97
Corrected Dollar Amount	50	5	2.42%	3	3	3	2	5	16	3	4.27%	66
Correct units	13	2	0.63%				2	13	15	8	4.00%	28
CORRECT HOSPITAL/LOCATION	161	13	7.80%	3	4	1	1		9	2	2.40%	170
Duplicate Charge	30	3	1.45%	1	1		2	1	5	1	1.33%	35
Linking diagnosis	34	4	1.65%	2	2				4	2	1.07%	38
Add Supervising Provider	39	13	1.89%							#DIV/0!	0.00%	39
Correct date of service	23	3	1.11%							#DIV/0!	0.00%	23
Wrong Patient	2	1	0.10%							#DIV/0!	0.00%	2
(blank)	5	3	0.24%			_				#DIV/0!	0.00%	5
Grand Total	2065	172	100.00%	142	71	47	76	39	375	75	100.00%	2440



Project Close-out, Follow-up & Ongoing PDCA

Plan:

<u>January 2013-</u> Charge corrections report review a standing agenda item at monthly Revenue Cycle meetings. <u>GOAL</u>: Raise awareness & continued collaborative problem-solving for Cause. Responsible Party: Collection Managers.

<u>January 2013-</u> QA Audit program begins. Monthly sample of transactions will be audited for accuracy and appropriateness. <u>GOAL</u>: Satisfy external auditing & policy/procedure requirements.

Do:

Visual tracking of WIP and Flow in business office. Reports/data posted to team huddleboards. GOAL: Employee engagement. Continued problem-solving for Cause, continuous checks for Flow, & adherence to standard work. Responsible Party: Collection Managers.

Check:

 Charge correction team continues to meet monthly. <u>GOAL</u>: Regular assessment of categorical coding for correction reasons, identify appropriateness & opportunities. Responsible party: Charge Correction Team.

Adjust/Act:

Evaluate & adjust workflows for alignment with Imaging system. <u>GOAL</u>: Test workflow adjustments & realize additional process lead time by deployment of Imaging functionality- January/February 2013. Responsible Party: Collection Managers & project teams.