



Compassion. Integrity. Excellence. Stewardship.


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Enhancing SAFE SKIN Through Computer Utilization






OhioHealth's Mission:
To Improve the Health of Those We Serve

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Grant Medical Center

- 21,000 patient discharges/year
- Average daily census of 260
- Magnet Designated
- Fortune Top 100 Places to Work
- Level 1 Trauma Center
- JCAHO disease specific certification in Stroke, Joints, and CHF
- US News & World Report Top 100




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Session Objectives

- Identify and utilize preexisting coded patient data to promote understanding PU population.
- Integrate and apply system data to facilitate quick identification and response to high risk skin patients.

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Initial Interventions

- Announcement of *CMS Never Events* 2008
- Staff education through poster event 2008
- NDNQI CEU Program
- Established Core Skin Work Team
- Focus of documentation of pre-existing conditions
- Standardize Speciality Bed Usage
- Initiated Safe Skin Care Champions 2009
- National Speaker Event





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Just the Growing Facts


- 2007 GMC cared for 298 patients with Pressure Ulcers
- 2008 GMC cared for 375 patients with Pressures Ulcers
- 2009 GMC cared for 354 (472) patients with Pressure Ulcers




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High Risk Indicators




- Nutritional Status
- Previous History of a Pressure Ulcer
- Elongated Length of Stays
- Compliance with Turning Schedules on High Risk Patients

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Nutritional Status Considerations

- Establish direct reports to dietitians from lab via Midas
- Automating immediate nutritional consults based on lab
- Tracking information on one daily report
- Albumin ≤ 3 or Pre-Albumin ≤ 20 are risk factors for skin breakdown

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Earlier Prevention through Nutritional Status Alerts


Midwest ID	Order	Panel	Test Name	Test Units (U)	Result (U)	Normal Range, U, (Ref. Int., U)	Test Units (U)	Result (U)
12162000 301-A		Comprehensive Metabolic Panel	Serum	142	5.1	3.5-5.1		7.5
12162000 304-A		Comprehensive Metabolic Panel	Serum	4.5	4.5	3.4-4.8		7.0
12162000 312-A		Pre-Albumin	Albumin	2.7	2.7			2.7
12162000 310-A		Pre-Albumin	Prealbumin	1.9	1.9			1.9
12162000 325-A		Pre-Albumin	Prealbumin	1.9	1.9			1.9
12162000 313-A		Pre-Albumin	Prealbumin	1.9	1.9			1.9
12162000 321-A		Comprehensive Metabolic Panel	Serum	199	5.1	3.5-5.1	2.7	7.5
12162000 331-A		Pre-Albumin	Prealbumin	4.3	4.3			4.3
12162000 335-A		Pre-Albumin	Prealbumin	1.8	1.8			1.8
12162000 306-A		Pre-Albumin	Prealbumin	4.3	4.3			4.3
12162000 328-B		Pre-Albumin	Prealbumin	9	9			9
12162000 314-A		Pre-Albumin	Prealbumin	9	9			9
12162000 341-A		Pre-Albumin	Prealbumin	11	11			11
12162000 314-A		Pre-Albumin	Prealbumin	2.6	2.6			2.6
12162000 344-A		Pre-Albumin	Prealbumin	11	11			11
12162000 303-F		Pre-Albumin	Prealbumin	7	7			7
12162000 305-B		Pre-Albumin	Albumin	2.5	2.5			2.5
12162000 311-F		Pre-Albumin	Prealbumin	9	9			9

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Patients With Extended LOS


- Automatic Wound Care consults
- Patients with LOS greater than 14 days
- Access as a daily report
- Track Length of Stays for high risk population of patients



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Alerts for Extended LOS patients


Room	MRN	Account No	Patient	Start Date	LOS	Attending Physician	Admitting Complaint
716-A				09/04/2009	42		AMS,CLOSE HEAD INJURY
746-A				09/06/2009	40		LIVER LACERATION , PNEUMOTHORAX
301-A				09/24/2009	22		S/P ILEOSTOMY
903-A				09/14/2009	32		MULTIPL C/O/ GI BLEED
743-A				09/14/2009	32		AMS W/CEREBRAL ABSCESS
326-A				09/21/2009	25		MI
804-A				09/17/2009	29		COUGH/PAIN TO RT CHEST
835-A				09/22/2009	24		INTRACTABLE DIARRHEA NAUSEA ESRD
324-A				09/24/2009	22		MITRAL STENOSIS 394.0
802-A				09/23/2009	23		CP V-TACH
642-A				09/24/2009	22		HEART PALPITATIONS
922-A				09/29/2009	17		ABDOMINAL WOUND INFECTION, I&D O
303-A				09/26/2009	20		NAUSEA/VOMITING
706-A				09/26/2009	20		EXP LAP
736-A				09/28/2009	18		HYPERKALEMIA,ESRD
914-A				09/29/2009	17		BREAKTHROUGH SEIZURES
304-A				09/29/2009	17		BRAIN MASS
330-A				10/01/2009	15		PNEUMONIA

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Previous or Healing Pressure Ulcers


- Automatic consults to Wound Care Nurses
- Promotes quicker response to patient needs and clearer picture of healing pressure ulcer
- Pulls discharged coded patient's data from all central OhioHealth system hospitals and matches with new admissions to Grant
- Captures 1 rolling year




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Alerts for Previous Pressure Ulcers


Room	MRN	Account No	Patient	Start Date	LOS	Attending Physician	Admitting Complaint
514-B				10/07/2009	9		HYPERGLYCEMIA
521-B				10/14/2009	2		TIA
536-A				10/15/2009	1		ELEVATED TROPONIN,UNCLEAR ETIOLY
627-B				10/13/2009	3		SYNCOPE
728-B				10/06/2009	10		HX TRAUMA,DEHYDRATION,UTI
804-B				10/10/2009	6		RT HIP PAIN, UTI,SYNCOPE
833-B				10/15/2009	1		RECTAL BLEEDING
842-A				10/15/2009	1		GANGRENE LFT DISTAL FOOT
848-A				10/15/2009	1		ANEMIA
906-A				10/13/2009	3		CYSTEROGRAM


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Discharged Patient Alerts

- Based on coded data available in Midas
- Alert issued immediately and populated on work list available in Midas
- Immediate E-mail notification of hospital acquired pressure ulcer (stage 3 and 4) to outcomes manager
- Review of the chart for verification of hospital acquired pressure ulcer

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Discharged Patient Alerts

Reviewed By: **Assigned To:**

Date: **Location:**

Patient	Location	Room	Type	Status	Next Review	Admit Date	Discharge Date
HOPPL	G-TRAUMA INT CAR	720-A	I	(Discharged)		11/4/2008	11/25/2008
HA							
STEW	G-TRAUMA INT CAR	745-A	I	(Discharged)		1/20/2009	2/20/2009
HA							
WALLA	G-7TH FL TRAUMA	727-B	I	(Discharged)		4/1/2009	5/12/2009
HA							

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Focus Study

Focus: HOSPITAL-ACQUIRED CONDITIONS **Date:** 11/23/2009

Location: G-7TH FL TRAUMA ...

Providers: [Empty list box]

Type of Hospital-Acquired Condition: PRESSURE ULCER - STG I OR II ...

Date of Event (if applicable): 11/9/2009 [Calendar icon]

Opportunity with documentation on admission? Yes No N/A <blank>

Opportunity with physician documentation? Yes No N/A <blank>


Opportunity with care during stay? Yes No N/A <blank>

Opportunity with coding on discharge? Yes No N/A <blank>

Coding reversed? Yes No N/A <blank>

For DVT/PE only, BMI: [Empty text box]

Comments: [Empty text box]

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OHIO PUBLIC REPORTING




*As of 12/31/2009, 100% of Ohio hospitals are participating in the program.




[View the Ohio Hospital Compare Website](#)
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"Try to get some rest. I'll be in every few minutes to make sure you don't."


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Daily Monitoring for Inpatients


- Quick Audits for high risk patients on each unit
- 24 hour picture of Skin Integrity care
- Targeted Braden's of 18 or less
- Turning documentation by both RN and PSA in Horizon Expert Documentation
- Documentation of pressure ulcer on skin assessments
- Identification of documenting nurse
- Facilitate daily rounding on high risk patients



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Mobius Reports




ICU


Rm/Bed: 303 - A

Account #:

MedRecord #:


Result Date/Time	Result/Location	Value / ANNOTATION	Charted by
10/28/2009 00:00	Turn	right side	
10/28/2009 02:00	Turn	left side	
10/28/2009 04:00	Turn	supine	
10/28/2009 06:00	Turn	right side	
10/28/2009 08:46	Braden Total	12	
10/28/2009 08:46	Press UlcerStage - Head Neck site 3	Stage II	
10/28/2009 08:46	Turn	left side	
10/28/2009 10:30	Turn	right side	
10/28/2009 12:25	Turn	supine	
10/28/2009 16:27	Turn	left side	
10/28/2009 18:30	Turn	right side	
10/28/2009 19:45	Braden Total	14	
10/28/2009 19:45	Press UlcerStage - Head Neck site 3	Stage II	
10/28/2009 19:45	Turn	supine	
10/28/2009 21:40	Turn	left side	

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Overall Monthly Incidence Reports

- Lists all patients cared for each month with a pressure ulcer
- Identifies present on admission and non present on admission pressure ulcers
- Identifies completed Wound Care Team Consults from HED documentation
- Chart review of each hospital acquired pressure ulcer required to assign unit of origin
- Quick visual of patients hospital stay and where breakdown occurred

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Monthly Incidence Report

Indicates ET nurse was consulted

Indicates unit where pressure ulcer developed

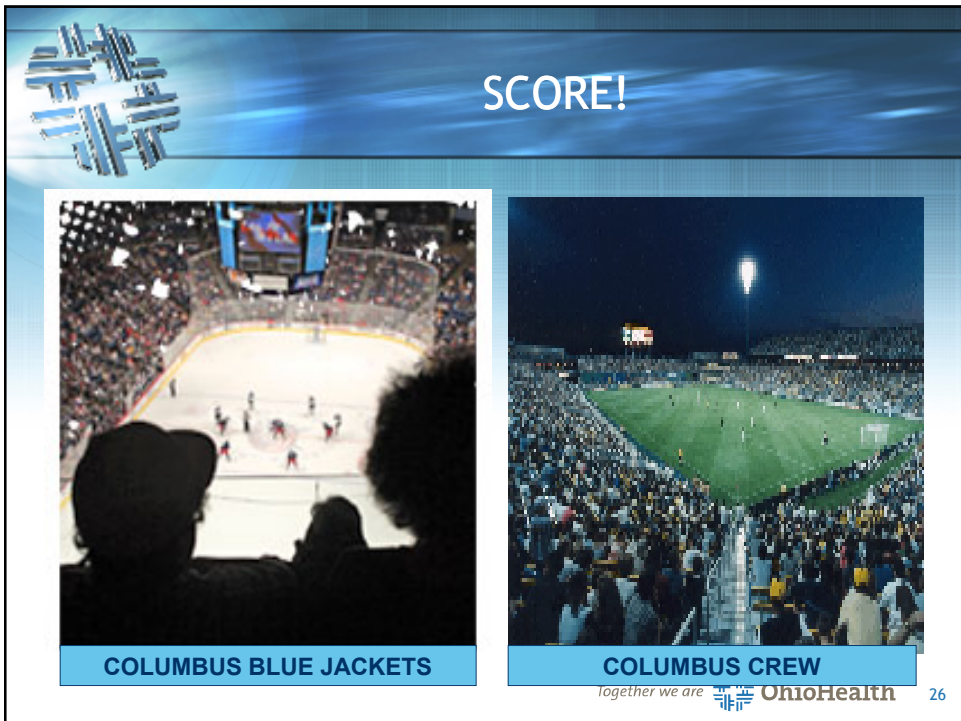
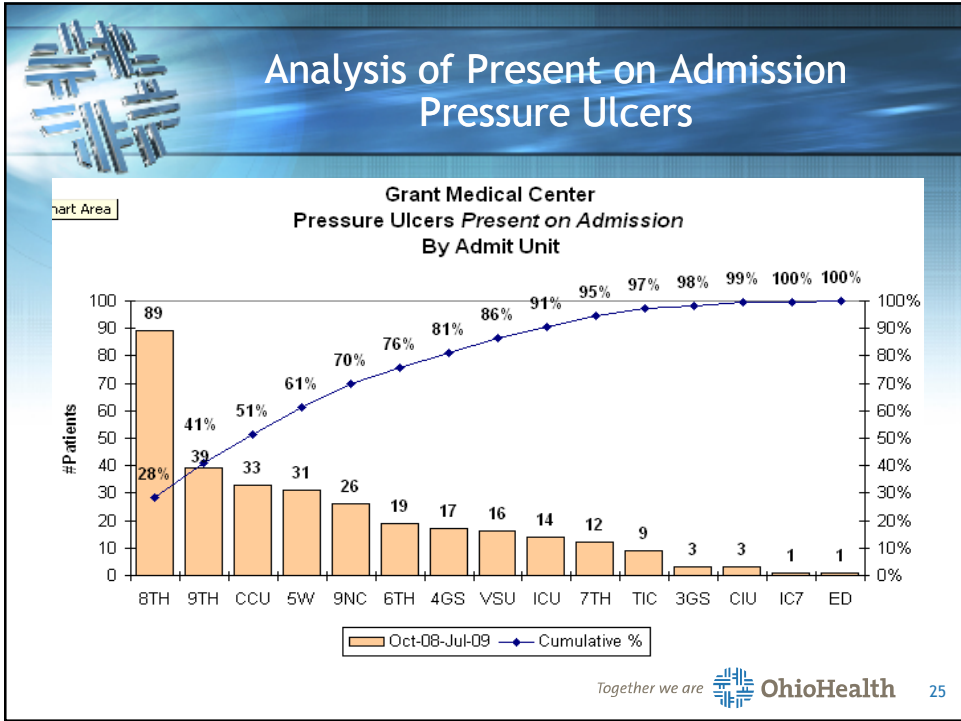
patient_name	account	start_date	end_date	LOS	Stage1	Stage2	Stage3	Stage4	Stage_NOS	Unstageable	Low_Back	Buttock	Hip	Heel	Ankle	Site_NEC	loc1	loc2	loc3	loc4	loc5	stage12_POA	stage12_NotPOA	stage04_POA	stage04_NotPOA	
Total Case Count																										
BOB S		11/17	1/6	50		NPOA						NPOA					3GS	4GS	CCU	BNC			14	4	25	1
SUE B		12/14	1/9	26		POA					POA						8TH	BNC	8TH							
SANDRA H		12/17	1/7	21				POA			POA						ICU	BNC								
RONALD F		12/30	1/3	4				POA									7TH						1			
TIMOTHY J		12/27	1/9	13		NPOA											CCU		8TH				1			
GARY O		12/28	1/8	12		POA					POA						8TH	8TH					1			
WILBERT C		12/28	1/2	5		POA					POA						8TH	VSU					1			
DAMON M		12/29	1/3	5				POA			POA	POA					BNC									
LINDA O		12/30	1/2	3													CCU									
ELAINE T		1/5	1/14	9				POA		POA		POA					4GS									
STEPHEN B		12/30	1/2	3				POA			POA						5W									
PAULINE U		12/31	1/2	2				POA			POA	POA					6TH									
MAYNARD P		12/31	1/3	3		POA	POA				POA		POA				8TH						1			
JOYCE A		1/1	1/4	3		POA		POA			POA		POA	POA			5W						1			
WILLIE W		1/3	1/9	6		POA		POA			POA		POA				8TH						1			
JOHN O		1/3	1/11	8				POA	POA		POA						8TH									
MARY R		1/4	1/8	4		POA		POA			POA	POA					8TH						1			
SHARON K		1/5	1/9	4				POA			POA						4GS									
JERRY T		1/6	1/9	3				POA			POA						4GS									
HENRY E		1/9	1/20	11		NPOA	NPOA				NPOA		NPOA				7TH	CCU	CCU	7TH			1			1

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Monthly Analysis by Unit


patient_name	mm	account	start_date	end_date	Stage1	Stage2	Stage3	Stage4	Stage_NOS	Unstageable	Low_Back	Buttock	Hip	Heel	Ankle	Site_NEC	loc	stage12_POA	stage12_NotPOA	stage04_POA	stage04_NotPOA					
			1/17	1/6		NPOA						NPOA					3GS		1							
																		3GS Total	0	1	0	0	0	0	0	0
			1/5	1/14			POA		POA		POA						4GS			1						
			1/20	1/22			POA		POA		POA						4GS			1						
			1/6	1/9			POA				POA						4GS			1						
			1/17	1/6		NPOA						NPOA					4GS		1							
																		4GS Total	0	1	3	0	0	0	0	0
																		4GS Count								
			12/30	1/2				POA			POA						5W			1						
			1/1	1/4			POA		POA		POA						5W		1	1						
			1/9	1/13				POA		POA							5W			1						
																		5W Total	1	0	3	0	0	0	0	0
																		5W Count								
			12/31	1/2				POA			POA						6TH			1						
			12/28	1/9			POA				POA						6TH			1						
			1/11	1/12			POA		POA		POA						6TH			1	1					
																		6TH Total	2	0	2	0	0	0	0	0

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Grant Scores

OhioHealth		Grant Medical Center FY'10 Balanced Scorecard		
QUALITY	National Comparison	Final fy09	FYTD '10	Target
Falls per 1000 patient days	HDHOI < 1.26		1.18	< 1.26
Falls with injury per 1000 patient days	HDHOI < 0.31		0.00	< 0.31
PU prevention - Repositioning (P)	HDHOI 84%			> 84%
% of patients with unit acquired pressure ulcers stage II and above	HDHOI 6.27%		9.1%	< 6.27
Pressure Ulcers (unit acquired) stages III & IV - CMS Never Event (#PUs/1,000 pt days) (O)	MIDAS 0.04		1.18	< 0.7
OHS Glucose 6 am	MIDAS 100%		100%	> 98%
% Patients with Restraints (limb & vest)	HDHOI 19%			< 19%
Spontaneous Awakening Trial (SAT) documented (P)	none n/a		n/a	tbd
Delirium free days for MV patients (O)	OH comparison tbd		n/a	tbd
SCIP Post-op temp 96.8-15 min post-op	MIDAS new			tbd
SCIP Foley cath D/C POD #2	MIDAS new			tbd
Infection Control				
Primary Bacteremia per 1000 Central Line Days	HHSN (CDC) 1.90		6.50	< 0.27
UTI - Hospital Acquired per 1000 foley days	HHSN (CDC) 3.70		0.00	< 2.70
Ventilator Assoc. Pneumonia/1000 vent days	HHSN (CDC) 1.90		0.00	< 0.27
SERVICE (percentile ranking)	National Benchmark	Final fy09	QTD '10	Target
Completion Of Personalized Care Boards	Studer 100%		99%	100%
QUALITY OF WORK LIFE	National Benchmark	Final fy09	Rolling Year Turnover	Target
Turnover (monthly target .50)	HDHOI			<10%
Absenteeism (monthly target .55)	OHIOHEALTH 7.0			<7.5
RN AOS: Employer of Choice	MSA 4.50		0.00	4.8
RN AOS: Work Demands	MSA 4.10		0.00	4.2
RN AOS: Participation	MSA 4.00		0.00	4.5

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Incidence Rates for Scorecards

- Provides monthly hospital acquired incidence rates based on coded data for population of scorecard
- Provides more timely feedback to managers
- Based on 1000 patient days
- Based on chart review of all hospital acquired pressure ulcers

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Incidence Reporting

unit	date	#Stage 3 or 4 Hospital-Acquired Pressure Ulcers	# Inpatient Patient Days	Rate of Stage 3/4 Hospital-Acquired Pressure Ulcers per 1000 Patient Days
0000	Jul-09	1	418	2.39
0000	Aug-09	0	426	0.00
0000	Sep-09	0	415	0.00
0000	FY10 thru Sep	1	1269	0.79
ICCU	Jul-09	0	428	0.00
ICCU	Aug-09	0	424	0.00
ICCU	Sep-09	1	414	2.42
ICCU	FY10 thru Sep	1	1266	0.79

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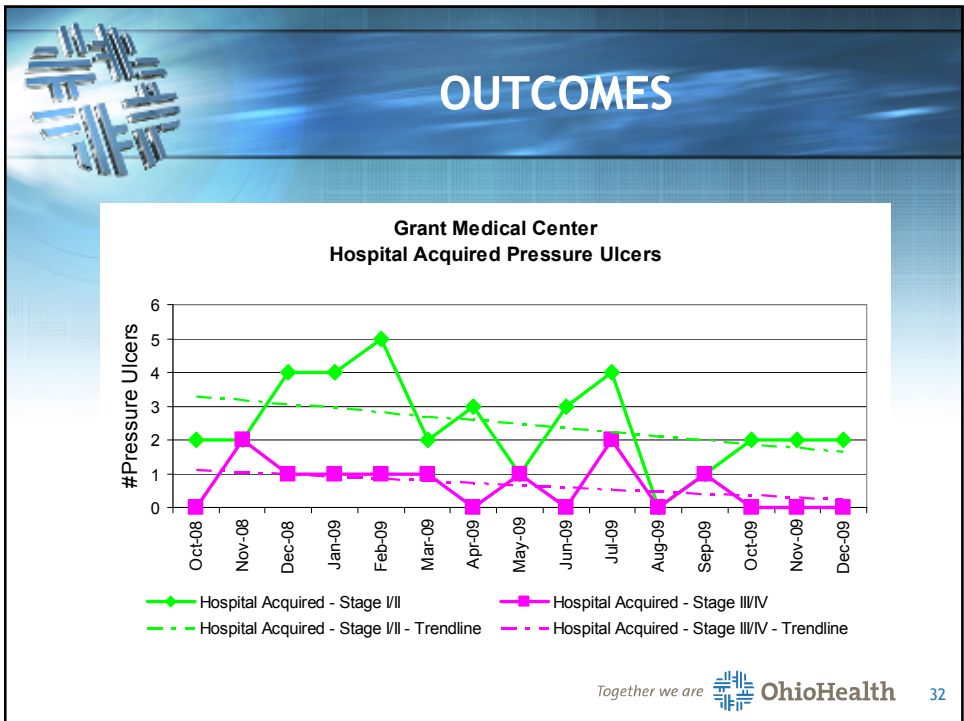
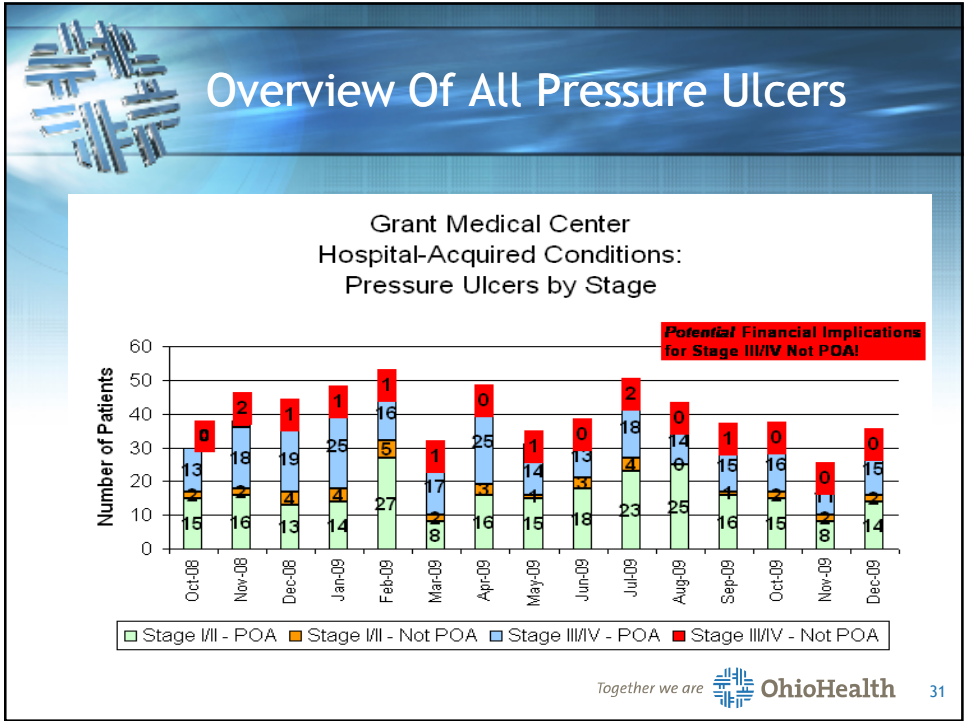
Population of Nursing Scorecard

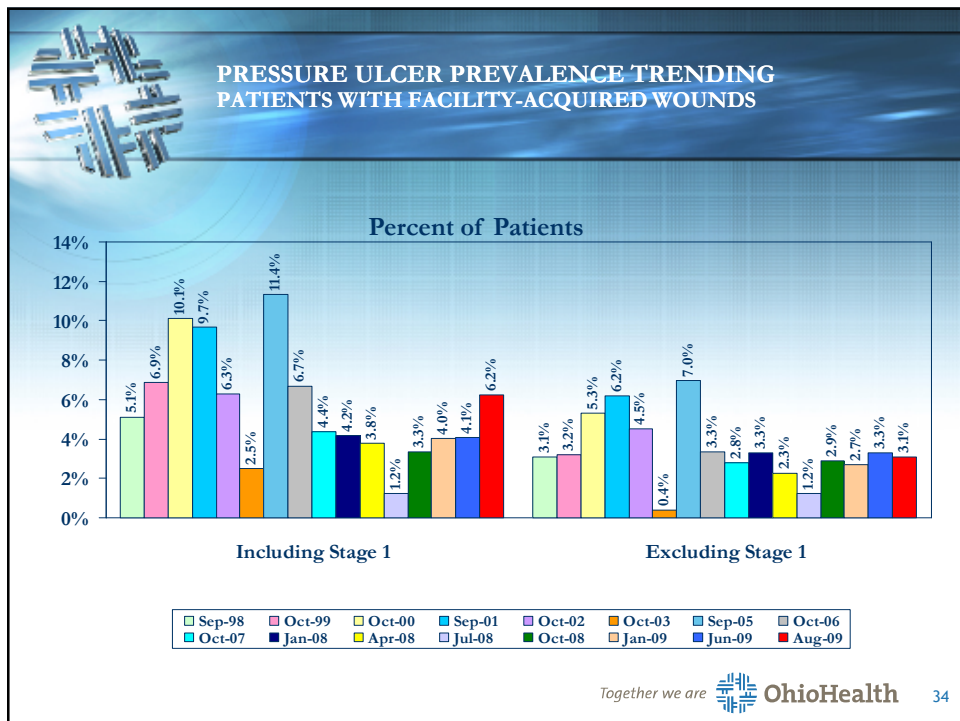
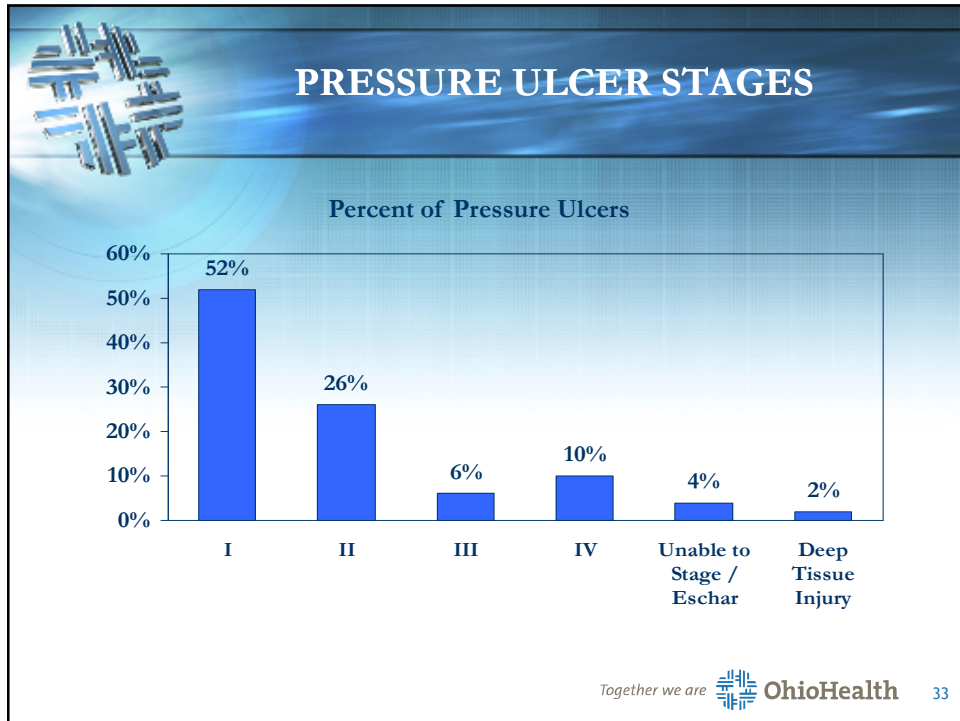
Grant Medical Center

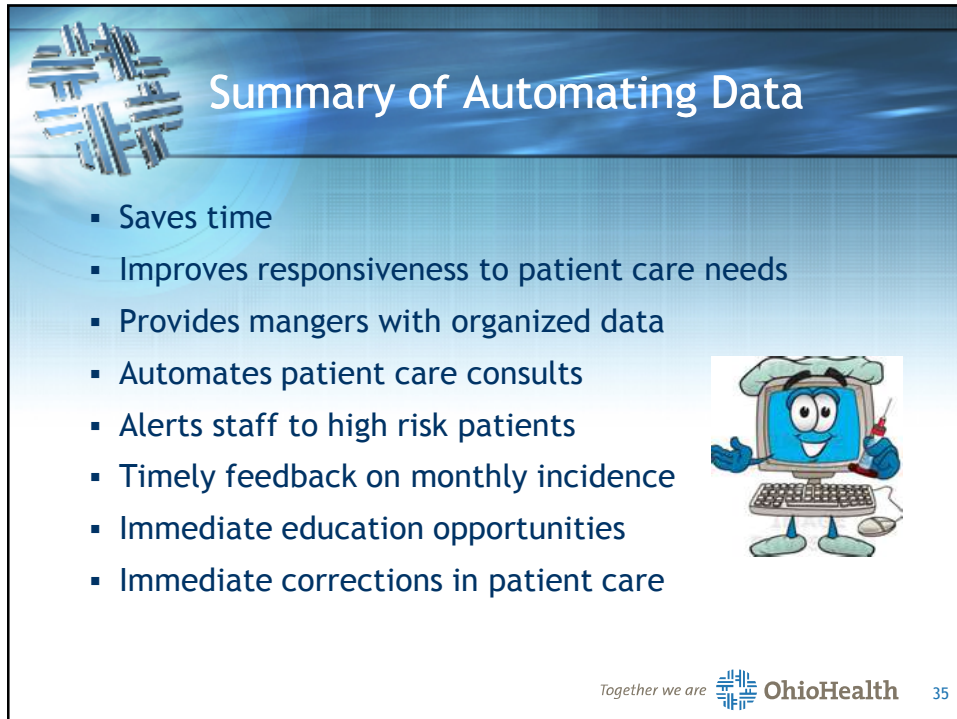
FY10 Nursing Balanced Scorecard

QUALITY	Benchmark	Final 1999	FY10*10	Jul 09	Aug 09	Sep 09	Oct 09	Nov 09
Rate per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Rate per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Pressure Ulcer Stage 3/4 per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Rate per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Rate per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Rate per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00
Rate per 1000 patient days	0.00		0.00	0.00	0.00	0.00	0.00	0.00

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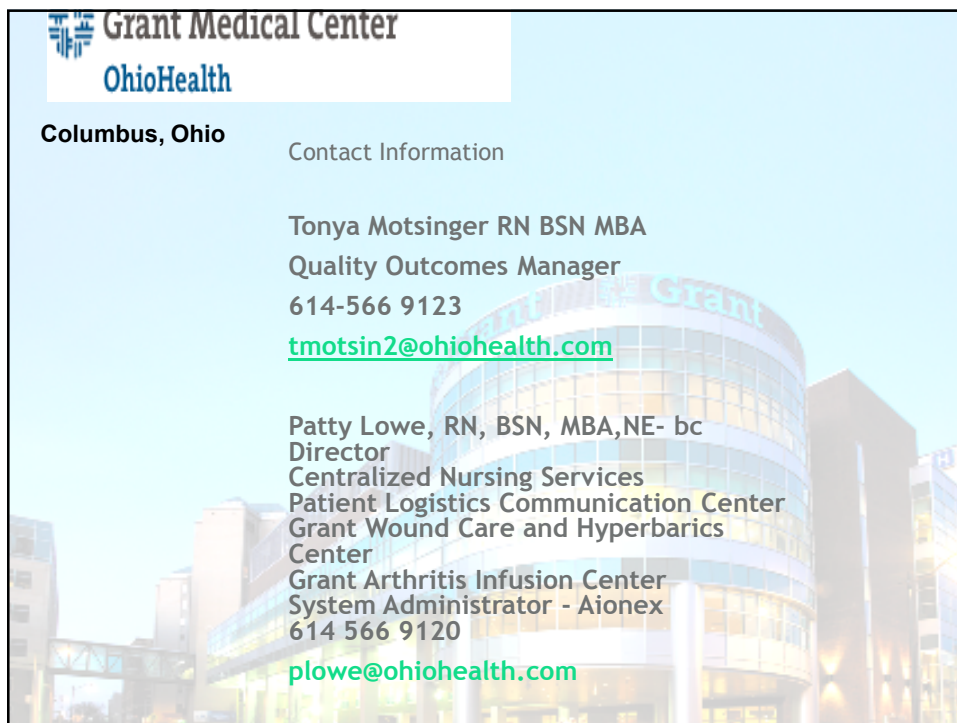



Summary of Automating Data

- Saves time
- Improves responsiveness to patient care needs
- Provides managers with organized data
- Automates patient care consults
- Alerts staff to high risk patients
- Timely feedback on monthly incidence
- Immediate education opportunities
- Immediate corrections in patient care



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 Grant Medical Center
OhioHealth

Columbus, Ohio

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Thank you