

# Effective Clinical Benchmarking and Infection Control

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## Why Benchmark?

- Method to gather information
- Continuous QA/PI
- Identify opportunities for improvement
- Remain transparent
- Prepare for potential future CMS regulations
- Allows ASC's to show they are on par with national data
- Part of Accreditation
- Trends

*"Sometimes you don't know what you don't know"* Cindy Coleman

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## Where to Benchmark

- ASC Associations Outcomes Monitoring Project
- ASC Quality Collaboration
- Independent Companies
  - Patient satisfaction
  - Financial
  - Efficiency
  - Quality

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## Data Collection Methods

- Retroactively
  - Incomplete or inaccurate data
  - Increase staff time
- Daily and Active
  - Current
  - Reliable data
  - Data collected quickly

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## What to Benchmark?

- Quality
  - Post-op phone calls
  - Cancellations
  - Normothermia
  - Unexpected complications
  - Transfers
  - Patient falls, patient burn, surgical hair removal
  - Wrong site, side, patient, procedure, implant

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## What to Benchmark?

- Efficiency
  - OR turnover
  - OR utilization
  - On time start
- Financial
  - Claim denials
  - Op report complete <30 days
- Patient Satisfaction
- Infection Control

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## Why is there a need to benchmark infections?

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### Facts about Healthcare Associated Infections (HAI)

- 2 million/year



- Claims 100,000 lives per year
- Deadly and costly-extra \$30,000/pt
- Healthy patients now with life-long disease

Center for Disease Control

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### Medical Infections

Infections kill more Americans each year than:



Car accidents



AIDS



Breast Cancer



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## Where Do You Start?

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## Risk Assessment

- Failure of Prevention Activities
- Basic Infection Prevention
- Policy & Procedure
- Exposure Plans
- Healthcare associated infections
- Employee Health
- Environment
- Antimicrobial Stewardship

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## Risk Assessment

Program Components	Probability				Risk Impact (Health, Financial, Legal, Regulatory)								Current Systems					Score
	Expected	Low	Medium	High	None	Minor	Major	Critical	Severe	Disastrous	Extremely Severe	Extremely Disastrous	None	Fair	Good	Excellent	Score	
	4	3	2	1	0	1	2	3	4	5	6	7	1	2	3	4	5	
Failure of Prevention Activities																		
Lack of hand hygiene																		
Lack of staff education																		
Lack of patient education																		
Basic Infection Prevention																		
Lack of standard precautions																		
Lack of high level disinfection practices																		
Lack of sterilization practices																		
Failure to separate clean and dirty																		
Failure to safe injection practices																		

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## Benchmarking in Infection Control

- Sterile Processing
  - Flashing (Immediate Use)
  - Reasons for flashing
  - Documentation
- All actual infections and near miss infections
  - Learn from near misses
  - Procedure
  - Surgeon
  - Prep
  - Antibiotics received
  - SPD method

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## Data Collection for Infections

Date	Procedure	Surgeon	Prep	OR #	Personnel	Antibiotics y/n n/a	Pt previous infections
2/2/2011	Lap Chole	Green	Chlorprep	2	Kim, Cheryl	yes	no
5/14/2011	Diagnostic Lap	Black	Chlorprep	3	Melissa, Julie	no	no
6/2/2011	Knee Arthroscopy	Blue	Chlorprep	3	Kim, Cheryl	no	no
7/6/2011	Shoulder Arthroscopy	White	Chlorprep	3	Melissa, Kristin	no	no
8/2/2011	Lap Chole	Green	Chlorprep	2	Melissa, Kim	no	no

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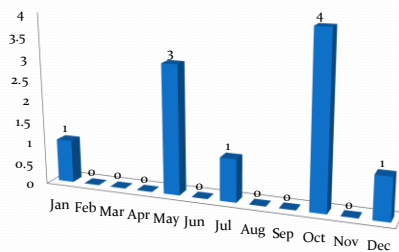
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## Infection Tracking




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	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11
<b>A. PEOPLE</b>							
Patient Satisfaction							
<b>B. QUALITY</b>							
Site Verification							
Time Out							
Antibiotic Timeliness							
DVT							
Postop Infection Rate							
Patient Injuries							
Patient/Volunt Falls							
Transfer/Admissions							
Universal Protocol							
Medical Record Audit							
Patient Rums							
Medication Errors							
Return to Surgery within 48 hours of discharge							
# deaths within 48 hours of discharge							
Prompt Complaint Response Rate							
<b>Process/Systems</b>							
Medication Reconciliation							
Patient Identification							
Handwashing Audit							

	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11
<b>QUALITY</b>							
<b>INCIDENT</b>							
MACU Bay Time (avg)							
OR Turnover (avg)							
Avg. OR Min/Case							
<b>Post Op Phone Call</b>							
Post Op Phone Call - % Reached							
<b>Post Op Phone Call Complications Reported:</b>							
Nausea/Vomiting							
Elevated Temp > 101							
Difficult Voiding/Mt							
Unexpected Bleeding							
Abdominal Discomfort/Gas							
Unintentional Discomfort/Pain							
Other							
<b>30 Day Post Op Phone Call-% reached</b>							
<b>7 year Phone Call for implants % reached</b>							
<b>1st Case Start Times -</b>							
% cases that start within 7 mins of scheduled in							

## Post op Phone Call

Next Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
# pts	268	254	328	293	278	313	283		
# reached	237	256	285	254	244	278	215		
% reached	88%	87%	87%	87%	88%	89%	85%		

30 days	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
# pts	297	287	298	324	282	278	317		
# reached	211	186	215	255	198	206	211		
% reached	71%	65%	72%	79%	67%	74%	66%		

1 yr	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
# pts	63	57	63	64	57	73	50		
# reached	38	35	34	38	28	47	35		
% reached	60%	61%	54%	59%	49%	64%	70%		

1st Q	Jan	Feb	Mar
# pts	881		
# reached	777		
% reached	87%		
30 days	79%		
1 year	59%		

2nd Q	Apr	May	Jun
# pts	884		
# reached	779		
% reached	88%		
30 days	73%		
1 year	56%		

3rd Q	Jul	Aug	Sep
# pts	253		
# reached	215		
% reached	85%		
30 days	23%		
1 year	24%		

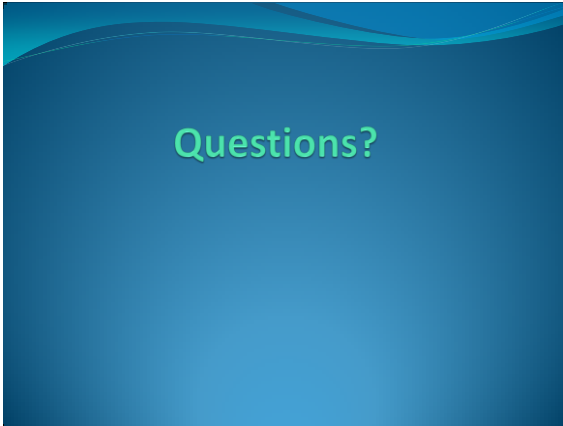
## Outcomes Monitoring

Activity Name	Start Description	Frequency	Interval	Interval Description	Interval	Unit	Start Date	End Date	Start Date	End Date
Post op	Post op patient care	Weekly	1st Q	Post op patient care	Post op patient care	Post op patient care	1/1/11	1/1/11	1/1/11	1/1/11
Post op	Post op patient care	Weekly	2nd Q	Post op patient care	Post op patient care	Post op patient care	2/1/11	2/1/11	2/1/11	2/1/11
Post op	Post op patient care	Weekly	3rd Q	Post op patient care	Post op patient care	Post op patient care	3/1/11	3/1/11	3/1/11	3/1/11
Post op	Post op patient care	Weekly	4th Q	Post op patient care	Post op patient care	Post op patient care	4/1/11	4/1/11	4/1/11	4/1/11
Post op	Post op patient care	Weekly	5th Q	Post op patient care	Post op patient care	Post op patient care	5/1/11	5/1/11	5/1/11	5/1/11
Post op	Post op patient care	Weekly	6th Q	Post op patient care	Post op patient care	Post op patient care	6/1/11	6/1/11	6/1/11	6/1/11
Post op	Post op patient care	Weekly	7th Q	Post op patient care	Post op patient care	Post op patient care	7/1/11	7/1/11	7/1/11	7/1/11
Post op	Post op patient care	Weekly	8th Q	Post op patient care	Post op patient care	Post op patient care	8/1/11	8/1/11	8/1/11	8/1/11
Post op	Post op patient care	Weekly	9th Q	Post op patient care	Post op patient care	Post op patient care	9/1/11	9/1/11	9/1/11	9/1/11
Post op	Post op patient care	Weekly	10th Q	Post op patient care	Post op patient care	Post op patient care	10/1/11	10/1/11	10/1/11	10/1/11

## How will you benefit from this

- Patient safety
- Determine trends with follow up
- Find solution to a problem
- Assist with accreditation
- Financial





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