

Disclosures

- As an employee of STERIS Instrument Management Services the speaker declares a vested interest in the functions and activities of that company.
- This presentation is a function of the speaker's core job duties.
- There is no non commercial support for this presentation.
- Even though there will be illustrations of equipment, they are there to discuss concepts and issues and not to be presumed as an endorsement of those products.

Disclosures

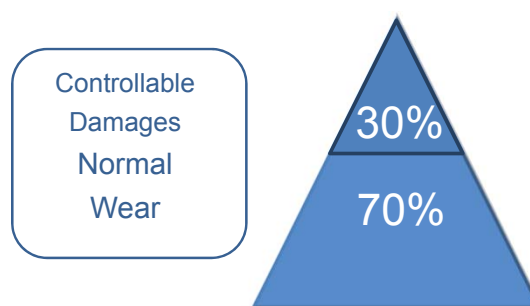
- There will be a discussion of label claims.
- There will be illustrations of equipment used to discuss concepts and issues of cause, effect, and prevention of repeating repair damages to endoscopes.
- Many of the illustrations have a tangential infection prevention related lesson that, while important to the presenter and audience, but will not be discussed as a part of this program's focus.
- All pictures within facilities and of personnel are used with permission for educational purposes only.

Objectives

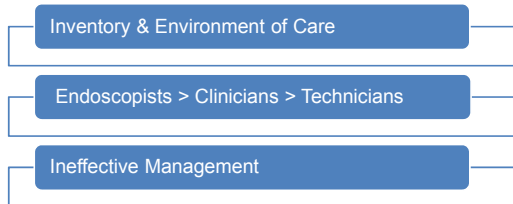
Upon completion of this presentation, you will be able to:

- List causes of common and repeating flexible endoscope damages
- Name the essential elements of a process improvement plan for flexible endoscope sustainability

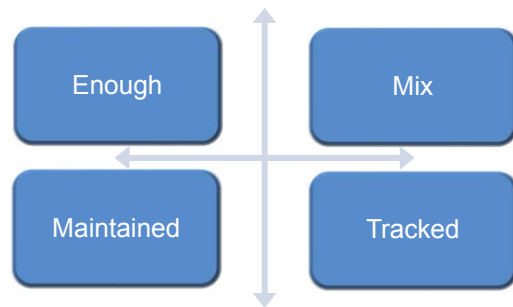
Repeating Damages



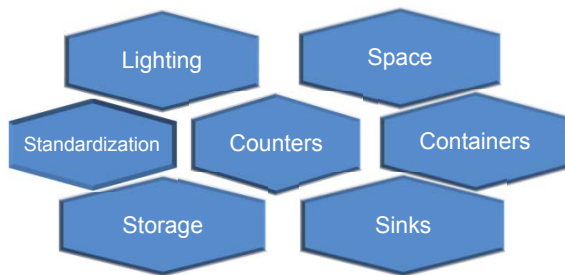
Causes of Repeating Repair Damages



Inventory



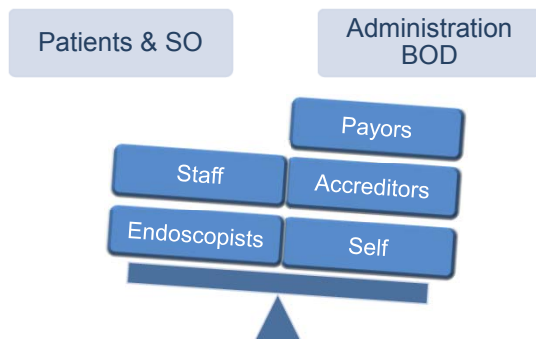
Environment of Care



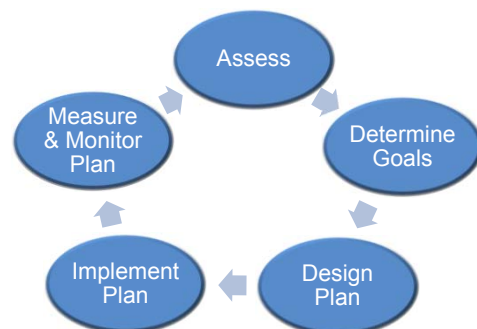
Human Resources

- Orientation
- Endoscopists
- Clinical Staff
- Technical Staff
- Competent Performance
- Time
- Training
- Understanding
- Ethics

Effective Management



Process Improvement Plan



Assessment



CAUSE
EFFECT
PREVENTION

- Sequencing of activities
- Actual & potential risks
- Non compliance
- Points for failure or vulnerability
- Trended issues
 - User Group
 - Endoscope Type
- Root cause analysis

Trended Issues

Expense

1. Replace CCD Chip
2. Fluid Invasion
3. Tube Replacement

Episodes

1. Channels, angulations, and tubes
2. Distal tip damages
3. Fluid Invasion

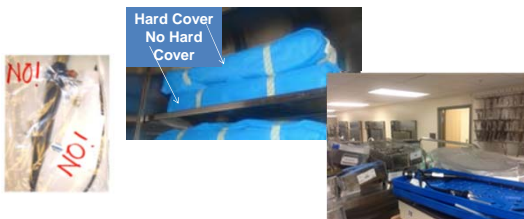
Assessment - Storage



Assessment – Storage, continued



Assessment - Storage, continued



Assessment – Clean Transport



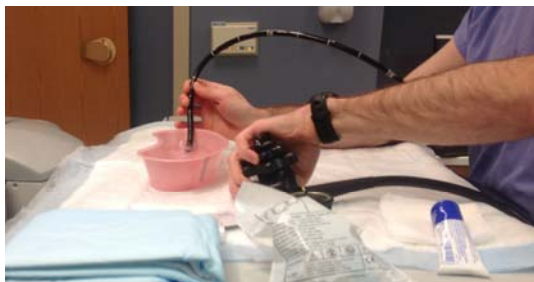
Assessment – Room Set Up



Assessment – Room Set Up, continued



Assessment – Room Set Up



Assessment – Utilization



Assessment – Pre Cleaning



Assessment – Contaminated Transportation



Assessment – Contaminated Transportation, continued



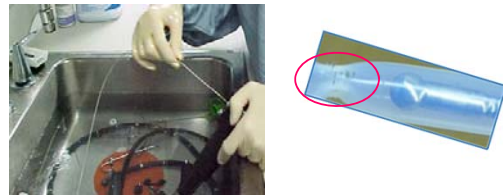
Assessment - Leak Testing



Assessment - Leak Testing, continued



Assessment - Cleaning



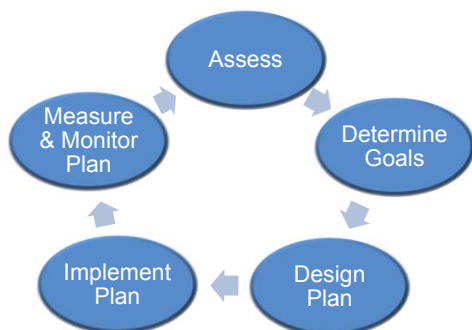
Assessment - Disinfection



Assessment - Drying



Process Improvement Plan



Determine Goals

Evidence basis from which to develop goals:

- Cause – assessment to determine
- Effect – assessment, repair trend, and condition

Example Goals

- Reduce Endoscope Repair Spend by **X%** or **X\$**
- Increase Satisfaction (throughput) by Reducing Endoscope Repair Episodes by **X%**
- Reduce Endoscope Specific Repair by Repair Episodes by **X%**

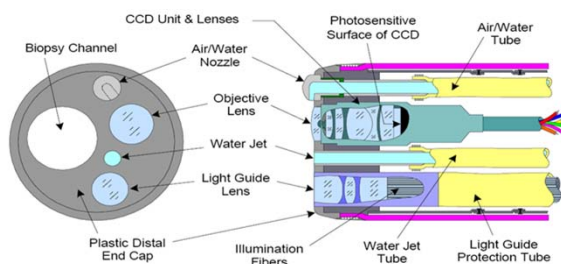
Design Plan

- Develop Evidenced Based Business Plan
- Procure Leadership Commitment to Plan
 - Standards of Practice
 - Environment of Care
 - Capital Equipment Procurement
 - FTEs

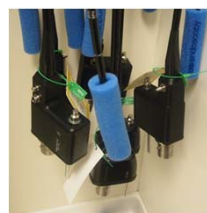
Focused Education Top 3 Controllable Issues

1. Fluid Invasion
 - Effective Leak Testing Practices
2. Replacement of Channels, Angulation Systems, and Tubes
 - Avoid Tight Coils
3. Distal Tip Damages

Focus on Distal Tip



Distal Tip Damage Control



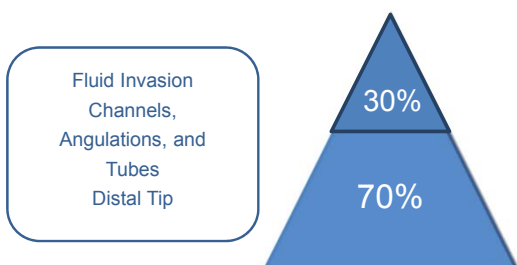
Implement Plan

- Revise Policies and Procedures
- Educate User Groups
 - Cause, Effect, and Prevention
- Verify Competencies

Measure and Monitor Plan

- Measure
 - Cost per procedure for repairs
 - Reduction of repeating repairs by type
 - Elimination of fluid invasion
 - Delay based on scope need

Controllable Repeating Damages



Evidence Based Resources

- ANSI/AAMI:ST91 2015 - Flexible and semi-rigid endoscope processing in health care facilities
- Manufactures' instructions for use
- Multi-Society Guideline on Reprocessing Flexible Gastrointestinal Endoscopes 2016
- AORN 2015 - Guideline for Processing Flexible Endoscopes
- SGNA 2015 - Standards of Infection Prevention in Reprocessing Flexible Gastrointestinal Endoscopes
- CBSPD 2016 - The Basics of Flexible Endoscope Reprocessing

