

# Sterile Supply Services Training in Eastwood Park

#### **LEE Chun Kin**

Ward Manager CSSD, POH/TSWH

HA Convention 2018 8th May 2018





## Overseas Corporate Scholarship Program for Clinical Leaders 2015-16

#### 23 Nov - 18 Dec 2015

#### **Eastwood Park, UK**

- 1. Chan Siu Yin, NO OT, NDH NTEC
- 2. Chui Yuk Ling, DOM CSSU, QEH KCC
- 3. Lam Wing Yan, APN OT, RHTSKH HKEC
- Lee Chun Kin, WM CSSD, POH/TSWH NTWC
- 5. Leung Wai Hung Allen, APN OT, PYNEH HKEC
- 6. Lo Yuk Fung, WM CSSD, KWC
- Mak Yung To Stanley, APN OT, PWH NTEC
- 8. Yim Chi Cheung Thomas, WM CSSU

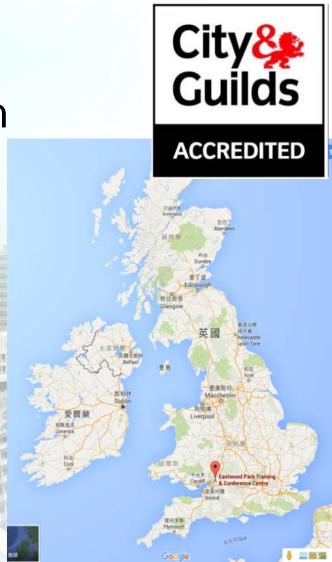
New TuQEHKOCluster

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### Eastwood Park Training Center

 8 nurses working in CSSD / TSSU for 4 weeks training in UK

- Theory
- Exam
- -Practice
- -Clinical Visit





### Learning Objectives

- Competent in decontamination management
- Quality management system (QMS)
- Validation of decontamination equipment
- Application of international standards
- Improve service quality and project development
- Resource person for service enhancement and new development

# Eastwood Park Facilities







New Territories West Cluster



#### Curriculum

- Week 1: Foundation knowledge and skills of standard CSSD environment
- Week 2: Flexible endoscope decontamination
- Week 3: Clinical visit: industries, laboratory & 4 hospitals
- Week 4: Decontamination services management







# Ensuring Washing Quality – Cleaning Efficacy Test







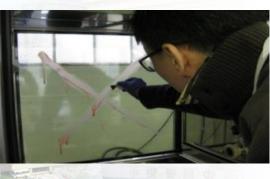
Ninhydrin - Protein Residue Test





**Cavitation Efficiency Test** 



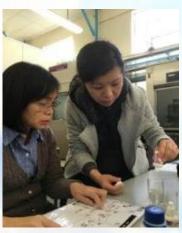


**Clean Efficacy Test** 



#### Good Water, Good Process









Water Hardness Test







**Water Conductivity Test** 



# Validation – Ensuring Good Sterilizer Performance







Manual leak rate test





Standard Test Pack

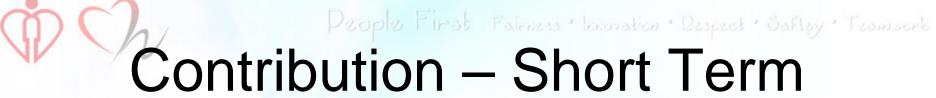


**Automatic Control Test (ACT)** 



#### Reflection

- Centralization and Local Centre
- Regulation, guidelines and management structure development
  - Engineer specific for decontamination services
  - Decontamination Lead
- Full validation for all decontamination equipment
  - Parametric release of sterile products
  - Quality assurance
  - Standardization among HA hospitals
- Modernization and application of technology



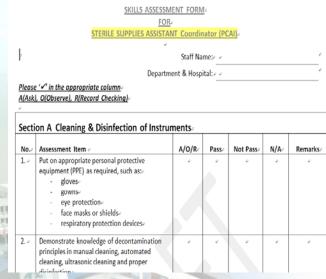
- Enhance staff training
- Enhance periodic tests (validation)
- Enhance record keeping
- Enhance 'On Loan' instrument logistic
- Revise operation manual
- Develop Key Performance Indicators



### Staff Training

- Commissioning training program
- Enriched the contents of the local training program

  SKILLS ASSESSMENT FORM:
  FORSTERILE SUPPLIES ASSISTANT Coordinator (PCAL)
  - International standards
  - Validation
  - New trends
  - -QMS
- Establish staff competency assessment







#### Validation

- Perform weekly automatic control test (ACT) for washerdisinfector (WD) & sterilizer
- Perform protein residues test & soil test for WD
- Microbiological Test (TVC) for final rinse water of Automatic Endoscope Reprocesser (AER)

C HRE-HI	博	博愛醫院中央消毒物品及無菌物品供應部		16	件號碼: 本	POCSSD-D-WD-004-V1 1 01 - 04 - 2016			_
70	濟洗機 WD 1-3 ACT 測試表格			9 7	效日期: 次修定: 數:		04 - 2016 04 - 2018		_
Automatic Con	ntrol Test for Washer Disinfector Hospital								
Washer Disinfector	3			Ŧ	MH/P	OH /4	SWH		_
Cycle Number	32690	_		Fre	quency	of Va	lidation		
Test Date	27/02/2017				W	eekly			
Cycle Start Time	09:40:20		Quarterly						
Program	P2	┸	Yearly						
Stage	Reading Taken At		Ac	Actual Reference (20161)				20	
	Time at Start	1	Min	1	Sec	1	Min	1	_
Pre-Wash	Time at End	3	Min	1	Sec	2	Min	3	_
	Temperature at end		25.0		°C		29.2		_
	•								
	Time at Start	4	Min	41	Sec	4	Min	26	_
	Time at End	13	Min	14	Sec	12	Min	35	
	Minimun Temperature		26		°C		30.4		_
	Maximum Temperature		54.9		°C		57.1		_
Wash	Dos Start Time	7	Min	1	Sec	6	Min	22	_
	Dos End Time	8	Min	13	Sec	7	Min	33	_
	Dos Duration	1	Min	12	Sec	1	Min	11	_
	Dos Start Temperature		40.4		°C		40.4		_
	Dos End Temperature		51.7		°C		51.7		_
	Time at Start	14	Min	53	Sec	14	Min	8	_
Rinse	Time at End	16	Min	41	Sec	15	Min	54	
Kinse	Minimun Temperature	Т	54		°C		51.1		
	Maximum Temperature		54.5		°C		56.6		_
	Time at Start	22	Min	28	Sec	23	Min	0	_
	Time at End	27	Min	30	Sec	28	Min	1	
Fianl Rinse	Holding Time (90 °C )	5	Min	2	Sec	5	Min	1	
	Minimun Temperature		90.6		°C		90.8		
	Maximum Temperature		92.8		°C		92		
Test Person		HO WA	N CHO	NG					
Approved by		YIP SI	NG YA	U					
Approval Date		06/0	3/2017						_



#### Record Keeping

- Developed comprehensive maintenance record for major decontamination equipment
- Enhance sterilization production record
- Confirmation before product release to users





# On Loan Instrument

- Unique set ID assigned to 'On Loan' instrument
- Tracking & tracking by Surgical Instrument Tracking System (SITs)





### **Operation Manual**

- QMS revision & updated
- Improve service quality
   & efficiency of workflow
- Enhance inventory control
- Revised requisition forms

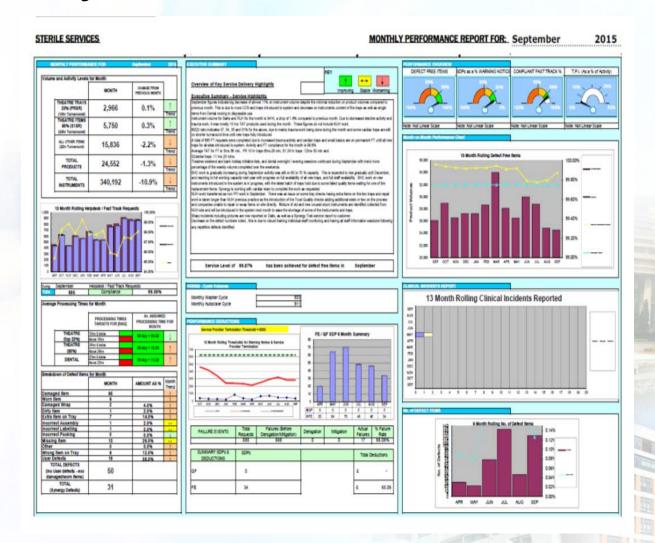
Kowloon Central Cluster - Queen Elizabeth Hospital  Document No.: KCC/QE/CSSU/TSSU/FM0009  Department - CSSU		
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ED-FLOW; Reprocessing of Flexible Endoscopes	Page	Feb 16 1 of 2

#### Competency Assessment Operation of AER ED-FLOW; Reprocessing of Flexible Endoscope

This form is for assessing staff's ability to reprocessing flexible endoscope by AER ED-FLOW correctly. Proper handling of the equipment and reprocessing of flexible endoscope should be referred to SOP – Operation of AER ED-FLOW, Reprocessing of Flexible Endoscope, machine operation manual and endoscope reprocessing on the source of AER ED-FLOW, Reprocessing of Flexible Endoscope, machine operation manual and endoscope reprocessing and actions.

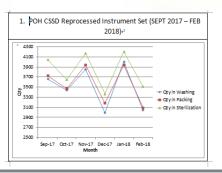
	Observational Assessment by Assess		are 0	unpete	ncy.
ŀ		or			
- 1	*All of the competencies must be achieved to pass the Flexible Endoscope Information	e asses	sment		
	Pentax / Karl Storz / Olympus Model:				
L	SITs code: QEH.FES.	Yes	No	NA	Remark
	Wear appropriate PPE before handling of flexible endoscope		•		
L	Perform manual leak test correctly				
L	Manual cleaning procedure & AER operation				
3	Add correct amount of enzyments d				
L	Add correct amount of enzymatic detergent (50ml) with water to marked level of the sink		$\top$	$\top$	
4	where the external surface of the flexible endosess to the				
L	and source sourced with diluted enzymatic dec		T		
5	or ush all channels with appropriate nylon brush fee and				
$\vdash$	- Cose ved				
6	Brush the suction valve, air/water valve and accessories (if applicable)	$\perp$			
7	The Mexicole endoscope on the AFP's stainless at the	$\perp$			
_	FF9				
8	Select correct connector set	$\perp$			
9	Connect all connectors, channel separator and tag correctly				
10	Thesa down foot pedal and launch chemical disinfant				
_	soliecting disinfected flexible endoscope / John discourse				
-	reasinand and wear clean gloves	_			
2	Disconnect all connectors, channel separates				
3 F	the mexicie endoscope and its accessories on the life				
-					
l P	ress down foot pedal to close the door				
a	ollect the connector set, channel separator and cleaning brush then de-				

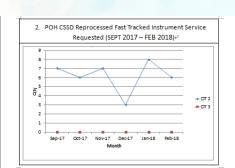
# Key Performance Indicators

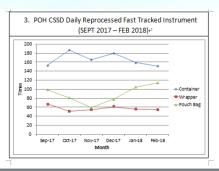


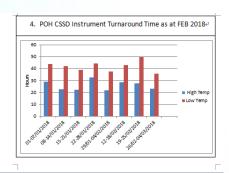


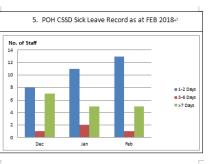
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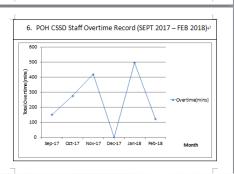


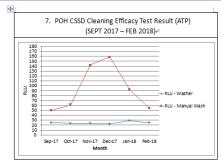


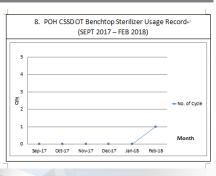












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### Contribution – Long Term

- Review the Independence Monitoring System (IMS) as essential component for purchasing new decontamination equipment
- Installed / Planned to install reverse osmosis (RO) water treatment system to improve water & steam quality
- Apply international standards for CSSD renovation project







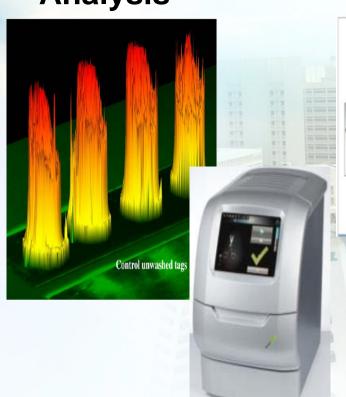
### Way Forward

LASER Marking on Individual Instrument

Fluorescent Residual Protein Analysis

RFID Tracking System











#### People First Fairness 'Innovation ' Despect ' Saftey ' Teamsork

### Acknowledgement

- Nursing Service Department, HAHO
- All the respective General Managers (Nursing), Department Heads and Colleagues
- All the staff of Eastwood Park Training contributed this course, for their arrangement in our accommodation and training



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### Thank You!







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