Facility number: 1			Date: 03-03-2020 - 08-03-2020	
General				
Action	Yes	No	Comments/How?	
Basic general hospital statistics				
Hospital type			Tertiary rural mission hospital	
Total number of beds			100	
Number of operating theatres			4	
Number of surgeries per year			about 300 depending on present surgeons	
CSSD general information			about 500 depending on present sargeons	
Number of CSSD staff			01-Feb	
Number of OT nurses			6, 5 during surgery	
Number of Biomedical technicians			0	
Who reprocesses the laparoscopic instruments			OT nurses	
who reprocesses the laparoscopic instrainents			OT Hurses	
Compliance with standards is verified against:		х	none	
There is record keeping of sterile reprocessing	х		Paper based, autoclave tape results	
There is periodic review of reprocessing performance		х		
Product descriptions/documentation are available for all products to be sterilized		х		
There is a procedure for new materials/instruments		х		
Disposables are being reprocessed and reused	х			
What types?			Ports, ESU knives, Vessel sealers, lap instruments	
Number of reuses is documented		х	, , ,	
How often			Not tracked	
For instruments that can be disassembled, (manufacturer) instructions		х		
are available for disassembly		^		
There is a written protocol for manual cleaning		Х		
There is a protocol for repair of instruments		Х		
Cleaning facilities in and around the OT				
Action	Yes	No	Comments/How?	
			·	
How often are the OT and cleaning areas cleaned?	х		Daily	
Sinks are cleaned at the end of the day		х	-	
Personal protection				
Sufficient personal protection devices are available such as				
· · · · · ·		Х		
Gloves of different materials	1 .			
		Х		
Gloves of different materials		x		_
Gloves of different materials Watertight aprons with long sleeves				
Gloves of different materials Watertight aprons with long sleeves Safety goggles Splash screen		х		
Gloves of different materials Watertight aprons with long sleeves Safety goggles Splash screen Equipment in the OT		х		
Gloves of different materials Watertight aprons with long sleeves Safety goggles Splash screen Equipment in the OT Compressed air gun		x		
Gloves of different materials Watertight aprons with long sleeves Safety goggles Splash screen Equipment in the OT Compressed air gun Water gun		x x		
Gloves of different materials Watertight aprons with long sleeves Safety goggles Splash screen Equipment in the OT Compressed air gun Water gun Hand Shower		x x x		
Gloves of different materials Watertight aprons with long sleeves Safety goggles		x x x x		_
Gloves of different materials Watertight aprons with long sleeves Safety goggles Splash screen Equipment in the OT Compressed air gun Water gun Hand Shower Ultrasonic cleaner		x x x x x		

Other equipment				8
The disinfectant trays (for Cidex) are kept near the OT	х		In the OT	
What sort of disinfectant tray is used?			Stainless container	
How often are the disinfectant trays cleaned?				
How often are the rinsing trays cleaned?			No rinsing tray was present	
Description of the CSSD				
Action	Yes	No	Comments/How?	Sourc e
There is a CSSD	х			8
All surgical instruments are fully processed in the CSSD		х	All instruments are cleaned near the OT	
The CSSD is cleaned daily		х		7
Sinks are cleaned at the end of the day				7
There are separate rooms for dirty, clean and sterile goods	х			4,7
Transport of sterile and contaminated goods is strictly separated		х	It can be but not used	1,4,7
The instruments are only passed through machine hatches		х		
There is a storage area with racks	х		Yes but not used	1,4,8
Personal protection				
Sufficient personal protection devices are available such as				4,7
Gloves of different materials		х		7
Watertight aprons with long sleeves		х		7
Safety goggles		х		7
Splash screen		х		7
Dirty area equipment available in CSSD				
Water gun		х		7
Hand Shower		х		7
Sufficient materials for manual cleaning are available (brushes for		.,		
external and internal cleaning)		Х		4,7
Washer-disinfector	х		Not used	3
Ultrasonic cleaner		х		3
Drying machine	х		Broken	8
Compressed air gun		Х		7
Other equipment				8
Have after taken of the south and a south after the south and a			T	
How often is the ultrasonic cleaning fluid replaced?	\vdash			7
The used cleaning agents are suitable for the washer-disinfectors				7
Inspection and assembly area Insulation tester		.,	T	
	_	X		
Microscope Composition reference (namer or computer)		X		
Composition reference (paper or computer) There are composition basket sets of instruments		X		-
·	\vdash	X		7
Instrument set compositions are documented	_	X		7
Of each set a photograph is available		Х		7
The documentation of set compositions is			T	
Paper based				7
Based on electronic documents (database)				7
There are multiple laparoscopic instrument sets for consecutive		x		
surgeries Packaging materials available	\vdash			
Cotton sheets	x		For surgical equipment	4,7
Cotton succes	L^_		i or surgical equipment	7

Crepe paper				
ci che babei		х		7
Non-woven sheets		х		7
Sterilization paper bags		х		7
Sterilization pouches	х		For ETO machine	7
Schimmelbush drums	х		For linen sheets and drapes	7
Filter drums	Х		not seen in use	
Sterilization containers		х		7
Heat sealer is available for sealing pouches	Х			
Sterilizing area				
Information is available on the chemical and physical behaviour of the		х		
items to be sterilized				7
Sterilisers available				
Steam steriliser (size in liters)	Х			
ETO steriliser	Х			
Sterrad steriliser		х		
Formaldehyde steriliser		х		
Other			Three broken autoclaves were present	
The steam steriliser is:			Manual	8
The steam steriliser has a readout		х	Only the ETO machine	1
The steam steriliser has a vacuum cycle	х			1
Sterilisers with toxic gasses are given time to vent		х		
Routine sterilizer performance testing				
How often is a Bowie Dick test carried out?		х	Never	7
The result of the Bowie-Dick test is documented		х		7
Routine sterilization performance testing is done by				•
Standard Bowie and Dick test pack (textile)		х		7
Disposable Bowie and Dick test pack		х		7
Chemical indicator strips		х		7
Process challenge device such as GKE with chemical indicator		х		7
Helix with chemical indicator		х		7
Electronic process challenge device such as ETS (3M), EBI 16				+
(Ebro) or DPCD (Interster)		Х		7
Process challenge device with Biological Indicator		х		7
If in use: x per week per sterilizer				7
How often is maintentance performed on the autoclaves?			Once per year and when the autoclave is broken	7
		х		7
Is there record keeping of the maintenance?				

Reprocessing procedure lap equipment

Action Yes No Comments/How?	sefore start of first surgery					
In Surgery & Pre-cleaning	Action	Yes	No	Comments/How?	Sourc e	
In Surgery & Pre-cleaning						
Action Yes No Comments/How? Sloves of OT nurses are changed for surgery after cleaning After surgery, used lap instruments are stored in a soaking solution what solution is this? Tap water Stainless bowls Stainless bowls Tap water On the transport containers are leak proof, can be cleaned well Stainless bowls Stainless bowls Tap water On the transport to cleaning Action Yes No Comments/How? Transport to cleaning The sink outside the OT Cleaned directly after use Cleaned .	Lap equipment is HLD'd	х		In Cidex	8	
Action	Lap equipment is sterilised	х		In the formalin chambers	8	
Action	In Surgary & Dro clooning				_	
Solves of OT nurses are changed for surgery after cleaning After surgery, used lap instruments are stored in a soaking solution What solution is this? The transport containers are leak proof, can be cleaned well Tap water x Stainless bowls Transport to cleaning Action Yes No Comments/How? The sink outside the OT Equipment is transported to CSSD Action The sink outside the OT The sink		Voc	No	Comments /How?	Sourc	
After surgery, used lap instruments are stored in a soaking solution What solution is this? The transport containers are leak proof, can be cleaned well Transport to cleaning Action Yes No Comments/How? Laparoscopic equipment is transported to CSSD Regular surgical equipment is transported to CSSD Where is the lap equipment moved? Equipment is kept moist Cleaning of lap equipment Action Yes No Comments/How? Laparoscopic equipment moved? Equipment is kept moist Cleaning of lap equipment Action Yes No Comments/How? Cleaned directly after use Lapa equipment is disinfected before cleaning What disinfectant is used? Lap equipment is rinsed after disinfecting Lap equipment is rinsed after disinfecting Removing gross soil Whenever possible, lap instruments are disassembled. Hollow instruments are flushed with water using a spray gun Gross soil is removed by rinsing	Action	163	NO	Comments/110w:	е	
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What solution is this? Tap water x Stainless bowls Tap water x Cleaned dreatly and the Water Tap water x Cleaned water Tap water x Cleaned water x Cleaned dreatly after use Tap water x Cleaned directly after use Tap water of the sink outside the OT x Cleaned directly after use Tap water of the sink outside the OT x Cleaned directly after use Tap water of the sink outside the OT x Cleaned directly after use Tap water of the sink outside the OT x Cleaned directly after use x Clea		<u> </u>	×	Offiny when assisting in surgery	1	
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X Cleaned directly after use 1-2	Regular surgical equipment is transported to CSSD		х		8	
Equipment is kept moist x Cleaned directly after use 3-2	Where is the lap equipment moved?			The sink outside the OT	4	
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Lap equipment is cleaned in washer/disinfector Lumens are connected for mechanical flow Instruments are loaded in open position Manual Cleaning What cleaning solution is used? Manufacturer instructions for the agent are followed Instruments are fully disassembled Cleaning solution is deep enough to submerge instruments	Automatic methods					
Lumens are connected for mechanical flow Instruments are loaded in open position Manual Cleaning What cleaning solution is used? Manufacturer instructions for the agent are followed Instruments are fully disassembled Cleaning solution is deep enough to submerge instruments	Equipment is ultrasonically cleaned		х		3	
Instruments are loaded in open position Manual Cleaning What cleaning solution is used? Manufacturer instructions for the agent are followed Instruments are fully disassembled Cleaning solution is deep enough to submerge instruments	Lap equipment is cleaned in washer/disinfector		х		3	
Manual Cleaning What cleaning solution is used? Manufacturer instructions for the agent are followed Instruments are fully disassembled Cleaning solution is deep enough to submerge instruments X Under running water and soap powder 4 Under running water and soap powder 4	Lumens are connected for mechanical flow		х		4	
What cleaning solution is used? Manufacturer instructions for the agent are followed Instruments are fully disassembled Cleaning solution is deep enough to submerge instruments Soap powder x If possible, also ligasures and disposables are soaked 3,4 x Under running water and soap powder 4	Instruments are loaded in open position		х		4	
Manufacturer instructions for the agent are followed Instruments are fully disassembled Cleaning solution is deep enough to submerge instruments x If possible, also ligasures and disposables are soaked 3.4 x Under running water and soap powder 4	Manual Cleaning					
Instruments are fully disassembled x If possible, also ligasures and disposables are soaked 3,4 Cleaning solution is deep enough to submerge instruments x Under running water and soap powder 4	What cleaning solution is used?			Soap powder	3,4	
Cleaning solution is deep enough to submerge instruments x Under running water and soap powder 4	Manufacturer instructions for the agent are followed				4	
	Instruments are fully disassembled	х		If possible, also ligasures and disposables are soaked	3,4	
Appropriate quantity of detergent is used	Cleaning solution is deep enough to submerge instruments		х	Under running water and soap powder	4	
	Appropriate quantity of detergent is used				4	

Sufficient brushes for manual cleaning are present for external and				
internal cleaning)		Х	Only toothbrush	\perp
The lumens are brushed (submerged)		Х		4
The instrument tips are brushed	Х			4
Rinsing				
Instruments are rinsed	X			3,4
In what basin			In sink under running tap water	4
What water is used?			tap water	3,4
Drying			Г	
Instruments are dried	Х			4
Lumens are dried	Х		Lumens are dried with a hairdrier	5,7
				$\overline{}$
Brushes are cleaned at the end of the day		Х		4
Cleaning tools are disinfected		Х		4
Inspection				
Action	Yes	No	Comments/How?	Sourc
Action	163	NO	comments/now:	e
Instruments are inspected for cleanliness				
Dirty instruments are reprocessed		X		4,7
Instruments are lubricated. Which lubricant?		Х		
				3,4
Insulation in inspected Instruments are assembled				3,4
	х			4
Instruments are being opened and spread out for functionality checks		Х		7
Instrument set compositions are consulted during set assembly		X		7
Damaged instruments are removed from a set and replaced by an		х	Only when broken	
adequate replacement.			erily illien steken	7
Declaring and Charilization on LUD				
Packaging and Sterilisation or HLD		NI-	Comments/How?	Sourc
Action	Yes	NO	Comments/ now :	e
Steam sterilisation How often are the lap instruments steam sterilised?			Nover	$\overline{}$
·	_		Never	8
Packaging of sets and packs is done in Cotton sheets				4,7
				7
Crepe paper Non-woven sheets				7
Sterilization paper bags				7
Sterilization paper bags Sterilization pouches				7
Schimmelbush drums				7
Filter drums				7
Sterilization containers				+
				7
None Packs using rousehle materials are double wrapped				+
Packs using reusable materials are double-wrapped Indicator tape (autoclave tape) is used for closing the packs packaged	_			4
in sheets				7
Indicators are used on every pack				4
Packs are dry after sterilization				7
Chemical Disinfection				
Instruments are chemically high-level disinfected	х			

Claves are changed when handling instruments in Disinfectant				1 1
Gloves are changed when handling instruments in Disinfectant	-	Х		-
What disinfectant is used?	<u> </u>		Cidex & spirit	-
Soaking times are tracked	_	х	When next patient is ready	
How is time tracked?	_		Clock on the wall	
Number of soaks is tracked	-	Х		-
When is liquid discarded?	-		after 14 days	-
Date of the liquid activation is noted	<u> </u>	х		
When was the liquid last discarded?	_			
Chemical indicators are present	_	х		
Chemical indicators are used periodically	<u> </u>	х		\perp
The lumens are filled with disinfectant		Х		
There is flow present in the disinfectant		х		
Disinfectant is deep enough to submerge instruments		х	Some instruments sticking out	
How are the disinfectant trays cleaned?				
Gloves are changed before rinsing instruments		х		
Instruments are rinsed	х			
What type of water is used?			Saline from bottle	
Are the lumens flushed? How?		х		
How many times is the instrument rinsed			Once	
Water is discarded after each use	х			
Drying				
How are the instruments dried?			Not dried before surgery.	4
How are the lumens dried?			Not dried before surgery	5,7
What air source is used?			5 ,	7
Formalin				
Formalin chambers are used	x			8
How many tablets are used			9 per chamber	8
Date of tablet placement is noted	×		The state of the s	
How long are the instruments in the chamber?	<u> </u>		Between surgery	8
Time in chamber is tracked		x	Between surgery	\dashv
Chambers are opened between surgeries	×		200000000000000000000000000000000000000	,
Instruments are stored in Formalin chambers until the next day	×			
modulinents are stored in Formalin chambers with the next day				°
Transport and storage				
Action	Yes	No	Comments/How?	Sourc
Action	163	NO	comments/now:	е
In what state are the instruments stared at the and of the day?			Cleaned	
In what state are the instruments stored at the end of the day?	-		Cleaned	4
Sterilised instruments are kept in storage		Х		4,7
Comments				
				_
				_
				_
				_

Sources

- 1 Expert opinion
- 2 Cidex OPA technical info
- 3 ASTM F1744
- 4 WHO Decontamination and reprocessing of medical devices for Health-care facilities
- ${\bf 5}$ APSIC guidelines for disinfection and sterilization of instruments in health care
- 6 Guideline for Disinfection in Healthcare facilities
- 7 SVN Sterilisation assessment form
- 8 Observations in pilot study