

General				Source
Action	Yes	No	Comments/How?	

Basic general hospital statistics

Hospital type			Tribal secondary healthcare mission	8
Total number of beds			50	7
Number of operating theatres			2	7
Number of surgeries per year			600, 40 laparoscopic	7

CSSD general information

Number of CSSD staff			0	7
Number of OT nurses			6	8
Number of Biomedical technicians			0	8
Who reprocesses the laparoscopic instruments			OT nurses	8

Compliance with standards is verified against:

There is record keeping of sterile reprocessing	x		NABH entry level	7
There is periodic review of reprocessing performance			Autoclave tape results are recorded	
Product descriptions/documentation are available for all products to be sterilized				7
There is a procedure for new materials/instruments				7
Disposables are being reprocessed and reused	x			7
What types?			Ports and handles	
How often			Not known	
Number of reuses is documented	x			7

For instruments that can be disassembled, (manufacturer) instructions are available for disassembly

There is a written protocol for manual cleaning				4,7
There is a protocol for repair of instruments				7

Cleaning facilities in and around the OT

Action	Yes	No	Comments/How?	
--------	-----	----	---------------	--

How often are the OT and cleaning areas cleaned?			2 times per week	7
Sinks are cleaned at the end of the day			2 times per week	7

Personal protection

Sufficient personal protection devices are available such as				4,7
Gloves of different materials			One type of glove	7
Watertight aprons with long sleeves	x			7
Safety goggles	x			7
Splash screen	x			7

Equipment in the OT

Compressed air gun	x			7
Water gun	x			7
Hand Shower	x			7
Ultrasonic cleaner		x		3
Flash autoclave		x		8
Compressed Air		x		8
Sink where instruments are rinsed	x			

Other equipment

	x		8
--	---	--	---

The disinfectant trays (for Cidex) are kept near the OT

x		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?

--	--	--	--

Description of the CSSD

Action	Yes	No	Comments/How?	Source
--------	-----	----	---------------	--------

There is a CSSD

x		Area near but separate	8
---	--	------------------------	---

All surgical instruments are fully processed in the CSSD

	x		
--	---	--	--

The CSSD is cleaned daily

	x	Bi-weekly	7
--	---	-----------	---

Sinks are cleaned at the end of the day

		Bi-weekly	7
--	--	-----------	---

There are separate rooms for dirty, clean and sterile goods

x		Yes but not used	4,7
---	--	------------------	-----

Transport of sterile and contaminated goods is strictly separated

	x		1,4,7
--	---	--	-------

The instruments are only passed through machine hatches

	x	2 door autoclave is present but not used	
--	---	--	--

There is a storage area with racks

x		But not used	1,4,8
---	--	--------------	-------

Personal protection

Sufficient personal protection devices are available such as

4,7

Gloves of different materials

	x		7
--	---	--	---

Watertight aprons with long sleeves

	x		7
--	---	--	---

Safety goggles

	x		7
--	---	--	---

Splash screen

	x		7
--	---	--	---

Dirty area equipment available in CSSD

Water gun

	x		7
--	---	--	---

Hand Shower

	x		7
--	---	--	---

Sufficient materials for manual cleaning are available (brushes for external and internal cleaning)

	x	Only dish brushes	4,7
--	---	-------------------	-----

Washer-disinfector

	x		3
--	---	--	---

Ultrasonic cleaner

	x		3
--	---	--	---

Drying machine

	x		8
--	---	--	---

Compressed air gun

	x		7
--	---	--	---

Other equipment

	x		8
--	---	--	---

How often is the ultrasonic cleaning fluid replaced?

			7
--	--	--	---

The used cleaning agents are suitable for the washer-disinfectors

			7
--	--	--	---

Inspection and assembly area

Insulation tester

	x		
--	---	--	--

Microscope

	x		
--	---	--	--

Composition reference (paper or computer)

	x		
--	---	--	--

There are composition basket sets of instruments

	x		7
--	---	--	---

Instrument set compositions are documented

	x		7
--	---	--	---

Of each set a photograph is available

	x		7
--	---	--	---

The documentation of set compositions is

Paper based

			7
--	--	--	---

Based on electronic documents (database)

			7
--	--	--	---

There are multiple laparoscopic instrument sets for consecutive surgeries

	x		
--	---	--	--

Packaging materials available

			4,7
--	--	--	-----

Cotton sheets

	x		7
--	---	--	---

- Crepe paper
- Non-woven sheets
- Sterilization paper bags
- Sterilization pouches
- Schimmelbush drums
- Filter drums
- Sterilization containers
- Heat sealer is available for sealing pouches

	x		7
	x		7
	x		7
	x		7
x			7
	x		
	x		7
	x		

Sterilizing area

Information is available on the chemical and physical behaviour of the items to be sterilized

Sterilisers available

Steam steriliser (size in liters)

ETO steriliser

Sterrad steriliser

Formaldehyde steriliser

Other

The steam steriliser is:

The steam steriliser has a readout

The steam steriliser has a vacuum cycle

Sterilisers with toxic gasses are given time to vent

			7
x		240 L	
	x		
	x		
	x		
	x		
		Manual	8
	x		1
		Yes but not used properly	1

Routine sterilizer performance testing

How often is a Bowie Dick test carried out?

The result of the Bowie-Dick test is documented

Routine sterilization performance testing is done by

Standard Bowie and Dick test pack (textile)

Disposable Bowie and Dick test pack

Chemical indicator strips

Process challenge device such as GKE with chemical indicator

Helix with chemical indicator

Electronic process challenge device such as ETS (3M), EBI 16 (Ebro) or DPCD (Interster)

Process challenge device with Biological Indicator

If in use: x per week per sterilizer

		Never	7
			7

	x		7
	x		7
	x		7
	x		7
	x		7
	x		7
	x		7
			7

How often is maintenance performed on the autoclaves?

Is there record keeping of the maintenance?

		Yearly	7
	x		7

Disinfection in Cidex trays is done in the CSSD

	x		
--	---	--	--

Reprocessing procedure lap equipment

Before start of first surgery

Action	Yes	No	Comments/How?	Source
Lap equipment is HLD'd	x			8
Lap equipment is sterilised		x		8

In Surgery & Pre-cleaning

Action	Yes	No	Comments/How?	Source
Gloves of OT nurses are changed for surgery after cleaning		x		1
After surgery, used lap instruments are stored in a soaking solution	x			4,7
What solution is this?			water	4,7
The transport containers are leak proof, can be cleaned well	x		stainless bowls	4,7

Transport to cleaning

Action	Yes	No	Comments/How?	Source
Laparoscopic equipment is transported to CSSD				8
Regular surgical equipment is transported to CSSD	x		But first stored outside OT	8
Where is the lap equipment moved?				4
Equipment is kept moist	x		In water	3,4

Cleaning of lap equipment

Action	Yes	No	Comments/How?	Source
Disinfecting				
Lap equipment is disinfected before cleaning		x		4
What disinfectant is used?		x	e.g. Bleach	4
Lap equipment is rinsed after disinfecting				4
Removing gross soil				
Whenever possible, lap instruments are disassembled.	x			8
Hollow instruments are flushed with water using a spray gun	x		Flushed with the tap	7
Gross soil is removed by rinsing	x			7
Gross soil is removed using tools	x			4
What tools are used?			Toothbrush	
Automatic methods				
Equipment is ultrasonically cleaned		x		3
Lap equipment is cleaned in washer/disinfector		x		3
Lumens are connected for mechanical flow				4
Instruments are loaded in open position				4
Manual Cleaning				
What cleaning solution is used?			Soap powder	3,4
Manufacturer instructions for the agent are followed				4
Instruments are fully disassembled	x			3,4
Cleaning solution is deep enough to submerge instruments	x			4
Appropriate quantity of detergent is used				4

Sufficient brushes for manual cleaning are present for external and internal cleaning)

	x	Just a toothbrush	
	x		4
x			4

The lumens are brushed (submerged)

The instrument tips are brushed

Rinsing

Instruments are rinsed

x			3,4
		In sink	4
		Tap	3,4

In what basin

What water is used?

Drying

Instruments are dried

			4
			5,7

Lumens are dried

Brushes are cleaned at the end of the day

			4
			4

Cleaning tools are disinfected

Inspection

Action	Yes	No	Comments/How?	Source
--------	-----	----	---------------	--------

Instruments are inspected for cleanliness

x		While cleaning	4,7
---	--	----------------	-----

Dirty instruments are reprocessed

x			
---	--	--	--

Instruments are lubricated. Which lubricant?

x		Silicone oil	3,4
---	--	--------------	-----

Insulation in inspected

x		Visually	3,4
---	--	----------	-----

Instruments are assembled

x			4
---	--	--	---

Instruments are being opened and spread out for functionality checks

	x		7
--	---	--	---

Instrument set compositions are consulted during set assembly

	x	No compositions available	7
--	---	---------------------------	---

Damaged instruments are removed from a set and replaced by an adequate replacement.

			7
--	--	--	---

Packaging and Sterilisation or HLD

Action	Yes	No	Comments/How?	Source
--------	-----	----	---------------	--------

Steam sterilisation

How often are the lap instruments steam sterilised?

		Never	8
--	--	-------	---

Packaging of sets and packs is done in

			4,7
--	--	--	-----

Cotton sheets

			7
--	--	--	---

Crepe paper

			7
--	--	--	---

Non-woven sheets

			7
--	--	--	---

Sterilization paper bags

			7
--	--	--	---

Sterilization pouches

			7
--	--	--	---

Schimmelbush drums

			7
--	--	--	---

Filter drums

--	--	--	--

Sterilization containers

			7
--	--	--	---

None

--	--	--	--

Packs using reusable materials are double-wrapped

			4
--	--	--	---

Indicator tape (autoclave tape) is used for closing the packs packaged in sheets

			7
--	--	--	---

Indicators are used on every pack

			4
--	--	--	---

Packs are dry after sterilization

			7
--	--	--	---

Chemical Disinfection

Instruments are chemically high-level disinfected

x			
---	--	--	--

Sources

- 1 Expert opinion
- 2 Cidex OPA technical info
- 3 ASTM F1744
- 4 WHO Decontamination and reprocessing of medical devices for Health-care facilities
- 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

