

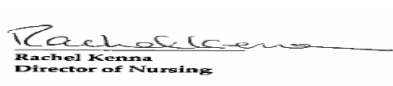


## LEAK TEST AND MANUAL CLEANING OF PENTAX GASTROSCOPE AND COLONOSCOPE™ POST PROCEDURE


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### Document Review History

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### Document Change History

Change to Document	Reason for Change
5.7 Change Wassenburg Endohigh Detergent from 80 to 75 mls  5.4: Change in the process regarding transport to include a rigid transport container.  5.13 Includes the cleaning of this container.	To reflect new process.

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## 1.0 Purpose

To outline the procedure for leak testing and manually cleaning of Pentax Gastroscope and Colonoscope™ post procedure. Endure all RIMD sets (including flexible scopes are traced through the decontamination process to the service user and ensuring RIMD are checked and reprocessed in accordance with manufacturers instructions.

## 2.0 Definition of Terms

*Endoscopes:* Flexible bronchoscopes, gastroscopes, colonoscopes

*Cleaning:* A process using friction, detergent and water to remove soil, including organic debris.


*High-level disinfection:* A process that destroys all micro-organisms with the exception of high numbers of bacterial spores. High-level disinfectants have the capability of inactivating the hepatitis B virus, HIV and Mycobacterium tuberculosis.

## 3.0 Responsibility

It is the responsibility of each member of staff leak testing and manually cleaning the endoscope ***to follow the correct procedure.***

## 4.0 Guideline

- 4.1 Endoscopes are leak tested and manually cleaned immediately after use.
- 4.2 Endoscopes are checked, as applicable, for defects, damage, functionality and cleanliness throughout the decontamination process, while in storage and before use on the patient. In addition expiry time and date is checked while in storage and before use on the patient.
- 4.3 Failure to properly leak test, manually clean and perform high-level disinfection of endoscopic equipment after each examination can compromise patient safety.
- 4.4 To minimise the risk of transmitting diseases from one patient to another after each examination, the endoscope must undergo thorough manual cleaning immediately after use followed by high-level disinfection.
- 4.5 If the endoscope is not cleaned meticulously, effective disinfection may not be possible.
- 4.6 The Pentax endoscope accessory buttons, uniquely coded to each Pentax endoscope, are returned to HSSD for autoclave sterilization.
- 4.7 The endoscope must be rinsed internally and externally after manual cleaning and before being placed in the automated washer disinfectant. Rinse water must be visibly clean. If not, repeat manual wash.
- 4.8 A routine water sample is taken from each endoscope monthly for microbiological examination in the laboratory, in addition, if the scope is used on a patient with an I.C. alert listed on the

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document“ Endoscope and Environmental Screening for Microbiology, and “ Miscellaneous I.C. Alerts for Endoscopes “ in water sampling folder a water sample from the biopsy, suction and auxiliary water channels if present and if necessary , an external dry swab for culture must be taken after decontamination. Scope is then set aside or quarantined, if necessary, until results return from Microbiology Lab.

- 4.9 The Biopsy cap is disposed of in the yellow clinical waste bag.


## 5.0 Procedure

- 5.1 Personal protective equipment must be worn as outlined in policy “Attire to be worn when cleaning endoscopes.”
- 5.2 Use single use cleaning brushes ref. no. BW – 412 T
- 5.3 At bedside place distal end of endoscope into diluted Wassenburg Cleaner solution (1.25 mls : 250 mls H<sub>2</sub>O) aspirate for 10 secs
- 5.4 Ensure protective camera cap is attached, take endoscope to sink in the designated rigid scope container lined with the sterile tray liner and covered with the red plastic cover and lid applied. If endoscope cannot be taken directly to sink, wipe down externally with detergent soaked cloth.
- 5.5 Place reusable suction and air control valves uniquely coded to the Pentax endoscope. Along with water bowl in HSSD box for collection.
- 5.6 Perform dry leak test i.e. attach Pentax leak tester (leave attached until manual cleaning is complete) , inflate gauge indicator to green zone, check for any leaks (continuous bubbles or leak tester dial will slowly deflate) observe instrument while angulating tip
- 5.7 Fill sink with 15 litres water – sink marked at this level (don't immerse leak tester hand piece) observe instrument while angulating tip in all 4 directions. A few bubbles may occur, this is normal but if there is a continuous stream of bubbles from same spot, this indicates a leak. Remove immediately from water, release pressure from tester, remove tester, **dry** brush only internal channels as per 5.9 below externally wipe down endoscope with detergent solution ,send to Sword Medical for repair as per policy

“Sending Pentax Endoscope for repair “. Suitcases kept in ground floor theatre store room.

If there is no leak, proceed to cleaning by pressing detergent pump once (75mls) of Wassenburg Cleaner to 15 litres of water already in sink.

- 5.8 Use 20 ml syringe to flush 90 mls detergent solution through auxiliary water channel, if present.
- 5.9 Place silver Pentax blocker on suction and air valve openings and silver leur connector on distal water channel outlet. Use 20 ml syringe to inject a minimum of 90 mls of detergent solution through each of the channels (biopsy and, suction). Use small disposable cleaning brush firstly down through biopsy channel , secondly at a 90 degree angle down the proximal air channel, then at a 45 degree angle via the same outlet, a minimum of 3 times. Use large cleaning brushes to clean large external channels (biopsy, suction, water) Change water and

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detergent solution, if necessary. Do not use excessive force. Do not squeeze or bend endoscope. Never insert brush in opposite (distal) end of endoscope. Use detergent soaked J cloth to clean all external parts.

- 5.10 Empty and refill sink with clean water, rinse endoscope internally (use 20 ml syringe to flush all internal channels and rinse externally, release pressure and detach leak tester but **N.B. NEVER REMOVE OR CONNECT LEAK TESTER UNDER WATER THIS CAUSES WATER LEAKAGE INTO SCOPE. If there is a delay in loading the endoscope into the washer / disinfectant inject 60 mls air into all internal channels**
- 5.11 Load into washer / disinfectant as per policy “ Loading endoscope into Wassenburg Washer /Disinfectant “
- 5.12 Place patient addressograph into manual cleaning record book. Record scope barcode on the addressograph , tick and sign relevant sections of manually cleaning record
- 5.13 The transport container is then cleaned. This cleaning process involves manually washing the designated rigid scope container with water and Brial detergent. Then dried and wiped with Azowipe and placed in the transport trolley.

## 6.0 References

HSE Standards and Recommended Practices for Endoscope Reprocessing Units 2012 Version 2.2

Pentax Gastroscope and Colonoscope Reprocessing Manual, 2013.

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