Manufacturer: Altomed Limited.



	Ce i dicomed
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Device(s):	All Altomed VITAL Instruments
IMPORTANT The instructions provided have been validated by Altomed as being capable of preparing a medical device for re-use. It remains the responsibility of the processor to ensure that the processing as actually performed using equipment, materials and personnel in the processing facility achieve the desired result. This requires validation and routine monitoring of the process. Likewise any deviation by the processor from the instructions provided should be properly evaluated for effectiveness and potential adverse consequences.	
1. Introduction Note: Only trained staff should handle these devices	 These procedures should be followed when cleaning and sterilizing stainless steel and/or titanium reusable instruments. These procedures should be followed in conjunction with any existing Hospital Cleaning and Sterilization procedures. These devices should only be monitored, controlled, handled, cleaned and processed by suitably trained and qualified personnel under an approved quality management system such as ISO 9001 or ISO 13485. Processing systems used must be able to sterilize devices to EN 556. Follow guidelines in HTM2010 and HTM2030. Use HTM2031 if necessary (see Limitations on Processing).
2. WARNINGS: Note: Ophthalmic medical devices are very delicate and in all instances must be handled with care and treated as fragile	 Long narrow cannulations and blind holes require particular attention during cleaning. Do not exceed temperatures of 140°C. Initial rinsing/cleaning temperatures should not exceed 35°C as temperatures above this may cause coagulation of proteinaceous substances and should be avoided. The VITAL instruments are very fine and delicate medical devices. These should be handled at all times with the utmost care to prevent handling damage. They should be inspected under a microscope as described in Section 11 prior to sterilization. Follow hospital/facility approved Health & Safety procedures at all times (e.g. C.O.S.H.H. Personal Protective Equipment (P.P.E.) etc). Keep fingers away from sharp tips! Follow hospital/facility and MHRA Guidance to control the processing of the devices. Follow hospital/facility approved procedures or recommendations in "Transmissible Spongiform Encephalopathy Agents: Safe Working And The Prevention Of Infection" compiled by the Advisory Committee on Dangerous Pathogens Spongiform Encephalopathy Advisory Committee) for processing devices that have been exposed to unconventional slow viruses or prion diseases such as Creutzfeldt Jakob Disease (C.J.D), Kuru, Gerstmann-Straussler-Scheinker Syndrome (G.S.S.), Fatal Familial Insomnia (F.F.I.), Scrapie, Bovine Spongiform Encephalopathy (B.S.E.) etc.
Single Use Symbol / Do not reuse CE marked products have this symbol	 Carry out procedures in a suitably controlled environment to protect from contamination. Do not process rusty or damaged instruments with good instruments or stainless steel with normal steel or iron instruments. General note: Do not re-use or reprocess single use devices. Follow the instructions supplied by the machine and detergent manufacturers. All machines and detergents used should be CE marked. Instruments should not be exposed to Bromine, Iodine, Calcium Chloride, Calcium Hypochlorite, Sodium Hypochlorite or Chlorhexidine. Do not expose Titanium devices Potassium Perchlorate. Any chemicals used should be Tenzide free. Only use CE marked chemicals specifically approved and labelled for use with medical devices.

3. Limitations on reprocessing

4. Point of use

Take care when

securing flush tube

to make sure the

tips of the device

are not rubbed or

caught on the inside of the tube

Note: Keep

protective cap on at all times except during cleaning, use, or inspections

1. Repeated processing has minimal effect on these instruments. End of life is normally determined by wear and damage due to use, processing or handling. Exposure to strong acid or alkaline may reduce the working life of instruments

Processing Instructions

Note:

1. Do not allow contaminants to dry on the device. Altomed recommend the use of a suitable Enzymatic preparation solution such as Ruhof Prepzyme XF to keep any debris moist if required 2. Remove excess soil by rinsing in purified water as soon as possible after use. Very carefully use

- a facility approved brush designed for delicate medical devices to remove any pieces of visible debris, open and close jaws as required. Always push the debris away from the lumen then rinse.
- 3. Connect a VITAL Flush Tube (A7644) to the instrument neck (see fig 1.) ensure the tubing does not touch delicate tips of the device. Slowly and carefully push water through the device until it comes out at the handle then withdraw the water back into the syringe. Use a gentle push pull motion on the syringe to loosen any debris if necessary. Disconnect the Flush Tube from the syringe and expel water from syringe. Rinse Flush Tube and connector in purified water.

Fig 1.



- 4. Repeat Steps 2 and 3 above until the device is clean.
- 5. Preparation for cleaning
- 1. It is recommended to clean the device as soon as is reasonably possible after use as described in Section 4 above. Ensure only trained staff handle and process the device. Care must be taken to prevent any cross contamination. Follow facility approved procedures for transporting contaminated devices. Do not let debris dry on the device.
- 6. Cleaning 1: Equipment and Chemicals
- 1. Equipment: Ultrasonic Cleaner and Washer /Disinfector as applicable, CE marked and approved by the hospital/facility with validated cycles.
- 2. Detergent: CE marked pH neutral Endozymatic detergent, Altomed recommend Ruhof Endozyme AW Triple Plus. Any chemicals used should be CE marked and be specially designed and labelled for use with medical devices.
- 7. Cleaning 2: Ultrasonic Cleaner

Ultrasonic Cleaner

/!\ <u>Note:</u> Take

care when drying so

tips do not become

damaged

1. Follow guidelines and procedures in HTM2030 and Ultrasonic Bath Manufactures Instructions.

Note: It is not recommended to use old or contaminated solutions in the

- 2. Ensure the Ultrasonic Machine is clean empty and dry prior to use.
- 3. Fill fluid reservoir with detergent solution to ensure complete immersion of device. Follow the Chemical and Ultrasonic Cleaner Manufacturer's instructions for use. Altomed recommend using an endozymatic detergent such as Ruhof Endozyme Triple Plus. Degass the solution and bring to the correct operating temperature following machine manufacturer's instructions for use.
- 4. Pre-clean devices as described in Section 4 Steps 2, 3, 4 as necessary using detergent solution.
- 5. Protect the devices by packing them in Microwash Trays, finger matting or securing blocks to prevent them touching other devices or the sides and bottom of the Ultrasonic bath.
- 6. Switch off the Ultrasonic bath and carefully place items into the solution. Ensure they are fully immersed and that any air contained in the device is displaced. Replace lid, switch on and leave immersed for as long as specified in the Chemical and Ultrasonic Manufacturer Instructions.
- 7. Switch off machine, remove and drain instruments. Rinse device including the lumen thoroughly in clean hot water (60°C or hotter) before drying and prior to processing in a washer/disinfector.
- 8. Dry using hospital approved absorbent non-shedding cloths, hot air dryer or drying cabinet. Wear suitable PPE when handling hot devices. If device is not visually clean, repeat procedure.

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8. Cleaning 3: 11. Inspection / 1. Clean devices first as described in Sections 6 and 7 above and ensure they are visually 3. Inspect device under a microscope as follows; contact Altomed if in any doubt to suitability: Washer / maintenance -Alignment - All jaws, teeth, arms etc. correctly aligned and interlocking where appropriate. clean. Place instruments into a suitable container (e.g. Microwash Tray) to protect from Disinfector handling and processing damage. continued Finish - Device should be clean with no staining, debris or residues. Any markings should 2. Follow HTM 2030 and Washer/Disinfector Manufacturers instructions for use. be clear and easily visible. Staining may be removed by using a specially designed cleaning agent, Altomed recommend Ruhof Surgi-Stain. Follow the chemical manufacturers 3. Load instruments so that as much contaminated surface area is exposed as possible, e.g. Note: when device allows, open jaws, hinges etc and place any devices with holes, lumen or Check all instructions for use to clean the device if necessary. Structure - No scratches, nicks, bends, distortions, cracks, flaking, pitting or other signs of concave surfaces so that they can drain freely. Load the machine so that the load devices against configuration does not impede the cleaning process. Keep heavy objects at the bottom of either a master physical or handling damage. Movement - Smooth without grating, scratching, jerking or excessive play unless designed trays, do not overload baskets and do not let instruments touch each other. sample or the 4. Run a hospital/facility approved and validated cycle. The initial rinse should be at or drawings shown to be otherwise. Locking Mechanisms - Should open and closed easily, check also for any cracks in box below 35°C followed by a hot water disinfection rinse where the surface of the device in the Altomed should reach 71°C for a minimum of 3 minutes, 80°C for 1 minute or 90°C for 1 second Catalogue. locks and hinges see HTM 2030) Altomed have validated a cycle with the following parameters: 5 minute Contact Altomed <u>Tips</u> - Check the integrity of any delicate parts, e.g. probes, scissor tips etc. Assemblies - All interlocking and detachable parts should fit easily and correctly without if in any doubt pre-wash at 20°C followed by an Endozyme wash at 50°C for 5 minutes, a 1 minute rinse at 60°C for 5 minutes, a 1 minute rinse at 60°C and a thermal disinfection cycle the need to apply any excessive force of 90°C for 6 minutes, HTM2030 and MHRA Guidance should be followed where Cutting edges - Should give a clean cut along the length of the blade. Test by cutting damp applicable. tissue paper: ensure cut is clean, along full length of blade and does not pull at tissue fibres. Lubrication - When necessary instruments should be lubricated on all moving parts after 5. When unloading check devices, including cannulations and holes etc. for complete removal of visible soil. Ensure instruments are dry. If necessary test lumen flow rates using cleaning. Follow the Lubricant Manufacturers instructions. Any lubricants used must be a syringe. If necessary carry out manual cleaning Section 9 and repeat Sections 6,7 and 8. specifically designed, CE marked and labelled for use with medical devices, Altomed 9. Cleaning 4: 1. Use a double sink system dedicated only for cleaning instruments - DO NOT use a hand recommend the Ruhof Premix-Slip lubricant Manual 12. Packaging wash basin. Ensure the water temperature is warm but does not exceed 35°C. Use a 1. Use hospital/facility approved and validated protocols and packing material, e.g. pouches hospital/facility approved detergent diluted as necessary to the manufacturers guidelines in or wraps. Protect devices from handling damage (e.g. Microwash Tray) during processing. Lot Number LOT the first sink. Detergent used should be CE marked and designed specially for medical 2. Ensure packing is large enough to prevent pressure on the seals. Altomed recommend Symbol <u>Note:</u> devices. Altomed recommend an Endozyme detergent e.g. Ruhof Endozyme Triple Plus products to BS 868. Ensure traceability with LOT number and shelf life with use by date. Use By Carry out any 2. Fill the second sink with purified water or ensure a water jet gun is available at the sink. Symbol 3. Pack devices so jaws, lock boxes, ratchets etc are open and exposed to sterilization process. manual cleaning 13. Sterilization: Use a hospital/facility approved and validated protocol and sterilize to EN556. Ensure all Carefully immerse instrument in the solution and displace any trapped air. Ensure solution gently. Be careful reaches all areas of the device, flush any lumens as shown in Section 4 with the detergent. Ethylene equipment and systems are controlled, maintained and calibrated e.g. HTM2010 HTM2030 STERILE ΕO Oxide not to damage 3. Keeping the device fully immersed in the solution, brush, wipe, agitate, irrigate, jet wash or 2. Ensure all devices are suitably packed in a protective barrier (e.g. pouch, wrap) to maintain delicate tips. hand spray the item to dislodge any visible dirt. Do not use steel wool, abrasive powders or sterility after removal from the sterilizer. Altomed recommend using materials to EN868. Moist STERILE Heat wire bristled brushes. Pay particular attention to joints, lock serrations, or any area where 3. The preferred sterilization cycle and one that has been validated by Altomed is a standard STERILE R Radiation Autoclave cycle operating between 134°C and 137°C with a minimum 3 minute holding time. debris may collect. Remove from the solution and drain over the detergent filled sink. Note: Take Common Sterile Symbols 4. Transfer the item to second sink. Rinse device thoroughly with the purified water, ensure These conditions may vary, see also Table 5 in HTM 2010 for suitable variations if required. 14. Storage care when drying so device is fully immersed and any residues are removed. Flush device with purified water 1. Stores should ensure optimum quality conditions are maintained. Devices should be kept tips do not become as in Section 4. Remove from the rinse water and drain. away from floors, walls, and ceilings. Store in a clean, dry well ventilated environment. damaged 5. Dry using hospital approved absorbent non-shedding cloths, hot air dryer or drying cabinet. Protect device 2. Sterile devices should be clearly identified with use by dates and be segregated from non-Wear suitable PPE when handling hot devices. If device is not visually clean, repeat procedure from rain and sterile devices where appropriate. Keep products out of direct sunlight at normal room direct sunlight 10. Special note: 1. Any reusable brushes used should be cleaned after use and disinfected, ideally in a washer temperature and humidity. Ensure all devices are dry before storage. Reject any devices devices in wet or damaged packing. NEVER STORE INSTRUMENTS WHEN WET. disinfector. Reusable brushes should be stored dry. 11. Inspection/ 15. Damaged 1. Visually inspect all surfaces, cannulations, ratchets, joints, holes and lumens for If a devices fail inspection protocols it should be rejected. If in any doubt as to the integrity maintenance devices complete removal of any debris such as organic matter and any chemical residues. of a device after processing, send to the Altomed Repairs Department for evaluation, Symbols 2. If devices are not visibly clean, reprocess using manual cleaning or automated cleaning include a signed Decontamination Certificate. If the device is beyond repair then it should denoting if necessary. If unsure about cannulated device flush with sterile purified water and be decontaminated and wrapped to protect handlers from sharp edges. It should then be instructions check the flow rate. disposed of by following hospital/facility approved procedures.