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## INSTRUCTIONS

### From Point Of Use

- Wherever possible, do not allow blood, debris or bodily fluids to dry on devices. For best results, and to prolong the life of the device, reprocess immediately after use. If they cannot be reprocessed immediately, use an enzymatic foam spray cleaner to help prevent soil from drying.

### Preparation for Decontamination

- Reprocess all devices as soon as it is reasonably practical following use.
- Disassemble only where intended, without the use of tools unless specifically provided by the manufacturer. Where instructions for disassembly are required, these are available with the device.

### Cleaning - Automated

- **Use only either CE marked or validated washer-disinfector machines and low-foaming, non-ionising cleaning agents and detergents following the manufacturers instructions for use, warnings, concentrations and recommended cycles.**
- Load devices carefully, with any box joints and hinges open and so that any fenestrations in devices can drain.
- Place heavy devices with care in the bottom of containers, taking care not to overload wash baskets.
- Place devices with concave surfaces (e.g. curettes) facing down to prevent pooling of water.
- Where available, use appropriate attachments to flush inside reamers and devices with lumens or cannula.
- Ensure that soft, high purity water which is controlled for bacterial endotoxins is used in the final rinse stage.

**Note:** *automated cleaning may not be suitable for all lumens and cannula, in which case clean manually with a water jet gun, if available, and an appropriate brush (and stilette if provided) that reaches the depth of the feature. After manually cleaning, pass all devices through an automated cleaning cycle to achieve disinfection.*

**Note:** *these instructions have been validated using a washer-disinfector cycle validated to include two cold rinses at <35°C, a detergent cycle and a rinse cycle both at >50°C, a disinfection cycle operating at a temperature of between 80°C and 92°C for a minimum holding time of 1 minute (actual holding time in excess of 2 minutes 50 seconds) and a 20 minute drying cycle. The detergent used was a low-foaming, non-ionising spray wash detergent cleaner (max 13pH) and the rinse aid a neutral pH low-foaming, non-ionic surfactant with isopropyl alcohol.*

## Cleaning - Manual

- **Manual cleaning is not advised if an automatic washer-disinfector is available. If this equipment is not available, use the following process:**
  1. Using a double sink system (wash / rinse) dedicated for device cleaning (not used for hand washing). Ensure that the water temperature does not exceed 35°C.
  2. In the first sink, keeping the device submerged, with an autoclavable brush, apply CE marked cleaning solution to all surfaces until all soil has been removed. Pay particular attention to serrations, teeth, ratchets and hinges, always brushing away from the body and avoiding splashing. Ensure rongeurs and hinged devices are thoroughly cleaned in both open and closed positions.
  3. In the second sink, rinse the device thoroughly with soft, high purity water which is controlled for bacterial endotoxins, so that the water reaches all parts of the device, then carefully hand dry or use a drying cabinet.

**Note:** *manual cleaning is NOT a disinfection process. When manual cleaning is used it may not be possible to disinfect the device prior to further handling.*

## Cleaning - Inspection

- After cleaning, visually inspect all surfaces, cannulations, ratchets, joints, holes and lumens for complete removal of soil and fluids. If ANY soil or fluid is still visible, return the device for repeat decontamination.

## Maintenance

- Apply surgical grade lubricants to hinges, joints and moving parts as per the lubricant manufacturers instructions.

## Inspection And Function Testing

- Visually inspect and check:
  - all devices for damage and wear.
  - cutting edges are free of nicks and present a continuous edge.
  - jaws and teeth align correctly.
  - all articulated devices have a smooth movement without excess play.
  - locking mechanisms (such as ratchets) fasten securely and close easily.
  - long, slender devices are not distorted.
  - any component parts fit and assemble correctly with mating components.
- Remove for repair or replacement any blunt, worn out, flaking, fractured or damaged devices.

**Note:** *if a device is returned to the manufacturer / supplier, the device MUST be decontaminated and sterilised and be accompanied by the relevant documented evidence.*

## Packaging

- All devices are to be packed following local protocol in accordance with BS standards.

## Sterilisation

- **Either CE marked or validated vacuum autoclave operating at 134-137°C / 2.25 bar for a minimum holding time of 3 minutes - always following the instructions of the machine manufacturer.**

- When sterilising multiple devices in one autoclave cycle, ensure that the steriliser manufacturers stated maximum load is not exceeded.
- Ensure devices are dry before sterilisation.

### **Storage**

- Ensure devices are dry before storage, and stored in dry, clean conditions at an ambient room temperature.

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