

## HOW TO DISINFECT THE MINI-WRIGHT STANDARD PEAK FLOW METER AND THE MINI-WRIGHT AFS LOW RANGE PEAK FLOW METER

### INTRODUCTION

The Mini-Wright Peak Flow Meter was designed as a portable device to help healthcare professionals monitor lung function and to minimise the risk of cross-infection. It has an integral one-way valve that prevents the patient from breathing in any of the previous patient's exhaled breath that could remain in the meter.

The importance of peak flow monitoring leads to many patients receiving their own personal meter to monitor their lung function at home, through prescription or recommended purchase. Doctors surgeries and Hospitals may also wish to issue Peak Flow Meters on a loan basis and therefore need a means of reprocessing each device before re-issue. The following instructions have been prepared to facilitate multiple-patient use.

Devices used for multiple patients may need to be replaced more often than those used by only one person.

We would recommend the use of one-way valve mouthpieces or disposable bacterial filters with our range of Mini-Wright peak flow meters in order to reduce the risk of cross contamination within multi-patient use conditions.

Please note that the one-way valve mouthpiece and bacterial filters are single patient use devices and therefore must be discarded after every use.

Single Patient medical devices may be used on more than one occasion for the same patient only.

### FREQUENCY OF DISINFECTING THE MINI-WRIGHT RANGE OF PEAK FLOW METERS AND ACCESSORIES:

**Note:** We would recommend that if the last user was diagnosed or suspected of having a serious communicable disease that the meter should be disposed of. The following recommendations for the frequency of disinfecting peak flow meters and accessories are presented as a guide only.

**Peak Flow Meter:** We would recommend cleaning the exterior surfaces of the peak flow meter and inside the red cap with an ordinary alcohol wipe (IPA 70 – 90%) after every use, with a thorough wash and disinfection after every 50 uses or immediately if contamination is observed.

In practice, the person responsible for the clinical wellbeing of the patient should consider the specific circumstances of the next patient and the risk posed by cross-infection.

#### Accessories:

Mouthpiece Type	Disposable One-Way cardboard mouthpieces (Single Use device*)	Disposable bacterial filters (Single Use device*)
Frequency	Dispose of after each use	Dispose of after each use

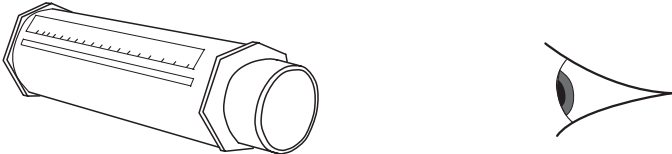
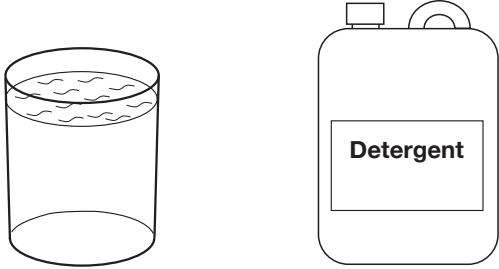

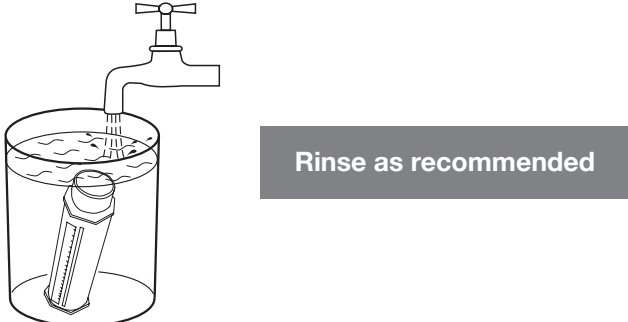
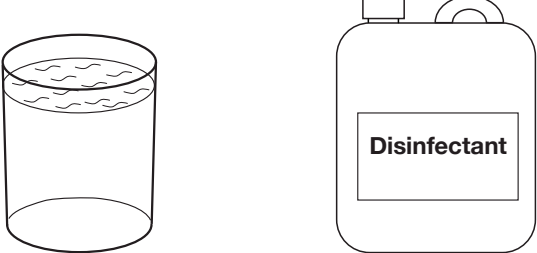
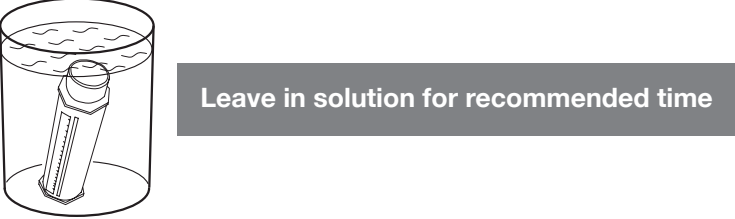

\***Single Use** device means **Do Not Re-use** (BS EN ISO 15223-1: 2012), Clement Clarke International Ltd consider that multiple measurements being made by the same patient in one consultation can be considered as a **Single Use** as long as the mouthpiece/filter is not damaged between measurements. This interpretation cannot be applied to all devices marked as 'Single Use'.

Detergents		
The following detergents have been tested for compatibility with Clement Clarke International Limited's Peak Flow Meters:		
Name	Solution strength	Comments
Lancerzyme	40 ml in 5 litres of water	Enzymatic cleaner
Cidezyme		Enzymatic cleaner

- Clement Clarke International Limited accepts no liability for damage caused to products if the above procedure and recommended solutions are not used.
- It is the user's responsibility to choose which of the recommended solutions are used within their establishment or hospital and we stress that the infection control nurse/department should be consulted when making the choice.
- It is the responsibility of the user to keep themselves current with the latest information from the relevant disinfectant manufacturer concerning instructions, effects, concentrations, and immersion times.

**References:** Chemical disinfection in hospitals – PHLS, Sterilization, disinfection and cleaning of medical device equipment (MAC Manual) – MHRA.

Disinfectants			
The following disinfectants have been tested for compatibility with Clement Clarke International Limited's Peak Flow Meters at the stated concentrations only.			
Chemical type	Examples	Solution strength	Comments
Chlorine dioxide generator	Tristel one day	20ml in 1 litre of water	Safety data sheet and further information available from <a href="http://www.tristel.com">www.tristel.com</a>
<i>ortho</i> -phthalaldehyde	Cidex OPA	Undiluted	
Sodium hypochlorite (NaOCL)	Milton	1000 ppm	Ensure thorough rinsing, as (NaOCL) corrosion of the metal parts will occur if exposed to chlorine for long periods .
Sodium dichloroisocyanurate (NaDCC)	Presept, Actichlor Sanichlor, Haz-Tab	1000 ppm	
Hydrogen peroxide and peroxygen compounds	Pera Safe	1.62% w/volume	

1		<p>Inspect the unit for signs of damage or wear, if any is evident replace the meter.</p>
2		<p>Prepare a solution of detergent in accordance with the manufacturer's instructions in a container large enough for the Peak Flow Meter(s) to be totally submerged.</p>
3		<p>Agitate the meter whilst in the solution to ensure any trapped air is expelled. Do not use any mechanical aids such as brushes or cloths.</p>
4		<p>Rinse and dry as recommended.</p>
5		<p>Prepare a quantity of your chosen disinfectant in a suitable container.</p>
6		<p>Immerse the Peak Flow Meter, again, agitate the meter to ensure air is expelled and leave it in the solution for the recommended time.</p>
7		<p>Rinse as stated, shake gently to remove any excess water and allow to dry naturally, do not use hot air or a drying cupboard.</p>