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Standard Operating Procedure: SOP _____

Cleaning and disinfection of procedural water lines of dental / oral-surgical treatment units by use of the BottleCareSystem (BCS)

This standard operating procedure replaces the version dated: 06.12.2016

Purpose: The enclosed standard operating procedure, given by the company ALPRO MEDICAL, describes the **procedure** of cleaning and disinfection of procedural water lines of dental or oral-surgical treatment units as well as the disinfection of pressure bottles by use of the BCS.

Scope: This **standard operating procedure applies for all systems** equipped with a **BottleCareSystem (BCS)**.

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1. Abbreviations and Terms:

BCS: BottleCareSystem
SOP: Standard Operating Procedure

2. Responsibility:

Mr / Ms _____

3. Implementation:

3.1 Devices, reagents and materials

- BCS
- Alpron 1 litre bottle with measuring cap at the cover
- Bilpron 6 x 1 litres in cardboard box
- measuring cup with scale [500 ml]
- funnel
- BC-San 100 for cleaning and disinfection of BCS pressure bottles

3.2 Procedure

Following measures form the basis for an efficient functioning of the BottleCareSystem.

a.) *Prior to initial operation*

Prior to the initial operation, the service technician has to carry out a biofilm removal (cleaning and disinfection by use of BRS[®]) of all water lines.

b.) Routine Operation

Prior to start of work

1. **Fill approximately half of the BCS pressure bottle with drinking water (according to local drinking water requirements).*
2. *Add Alpron concentrate (if necessary by means of a funnel) into the pressure bottle (10 ml for a 1 litre bottle respectively 15 ml for a 1.5 litre bottle).*
3. *Fill the bottle with drinking water up to the mark.*
4. *The solution has to be mixed well.*
5. *Screw the pressure bottle containing the Alpron solution in the bottle holder of the BCS.*
6. *Pressurise the pressure bottle by operating the lever (position I) at the outside of the BCS.*
7. *Flush all treatment water lines connected to the BCS (such as instrument tubes and tumbler filler) for at least 2 minutes in order to flush out stale water/Bilpron.*
8. *Now treatment can be started.*

**** The Alpron ready for use solution has to be prepared freshly every working day.***

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Replacement of pressure bottles:

- To **change the pressure bottle, release** the BCS bottle only in **pressurised condition** until you hear that air escapes. Only then switch off compressed air (lever in position 0).
- Then take the pressure bottle and refill it (as described under items 1-4) or replace it by a pressure bottle which has already been prepared (items 5-7).

IMPORTANT INFORMATION:

Please take care that the pressure bottle always contains sufficient Alpron solution. Check after each patient. Ideally, there is always a second filled pressure bottle available.

c.) After last treatment (lunch break/end of work)

- Switch off compressed air (lever in position 0)
- At the beginning of the next working day empty the bottle
- Prepare fresh solution (see **b.) Routine Operation** items 1-7)

d.) At the end of the working week or prior to the beginning of holidays

1. **Release the BCS bottle in pressurised condition** until you hear that air escapes. Only then switch off compressed air (lever in position 0).
2. Remove and empty pressure bottle.
3. Fill standard pressure bottle labelled **Bilpron only** with at least 200 ml of Bilpron.
4. Screw pressure bottle with Bilpron in the bottle holder.
5. Pressurise the pressure bottle by operating the lever (position I) at the outside of the BCS.
6. Now operate all water-bearing instruments and if necessary also the tumbler filler until Bilpron visibly comes out (blue liquid).
7. Switch off compressed air (lever in position 0) and leave the pressure bottle at the system (**non-pressurised**).

Bilpron may remain in the dental unit for the weekend but also for longer standstill periods (e. g. during holidays).

- minimum for 10 hours
- maximum for 3 months

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**Prior to restart
see item 3.2 b.)**

**e.) Internal disinfection of BCS pressure bottle
and BCS connecting system with BC-San 100**

1. *As a basic principle, the bottles in use, the screw threads of the bottles as well as the bottle holder at the Bottle Care System are to be cleaned and disinfected thoroughly after each use with MinutenWipes.*
2. *To disinfect the inner surfaces of the BCS-bottles pour the complete contents of the bottle (100 ml) of BC-San 100 into the empty pressure bottle and fill the pressure bottle with drinking water up to the beginning of the screw thread.*
3. **Contact time:** *At least 6 hours, ideally overnight*
4. *During the contact time, attach the pressure bottle to the holder of the water supply tank as usual. (Other used pressure bottles do not have to be attached to the water supply system during the contact time).*

ATTENTION:

Do not pressurise the pressure bottle during its disinfection!

5. *Prior to the reuse of the water supply system empty the disinfected pressure bottle and rinse it thoroughly with drinking water.*

Note:

The used bottles must be cleaned and disinfected on a weekly basis.

Please observe the expiry date of the pressure bottle!

Please do not use the pressure bottle after the stated expiry date!

