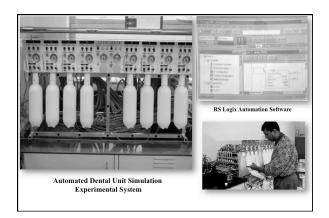
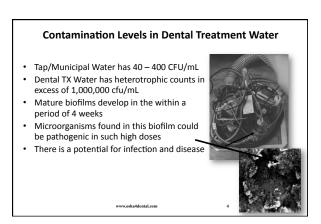


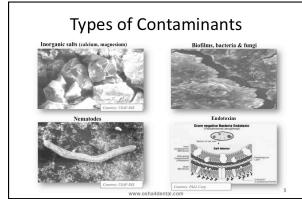
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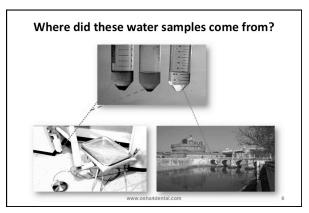
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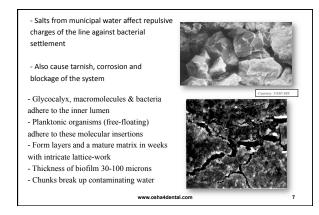




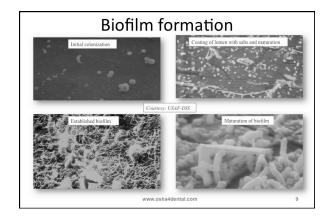


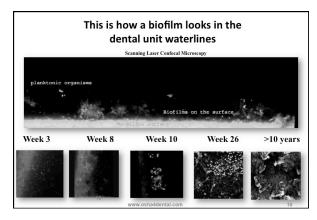


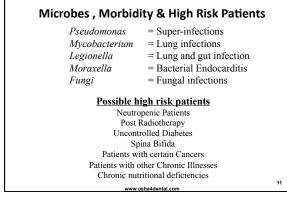
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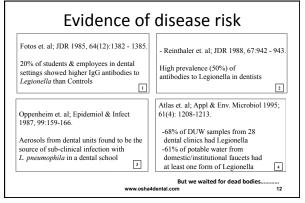




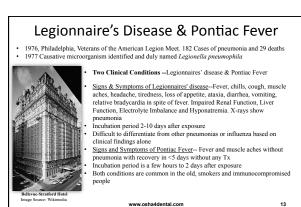


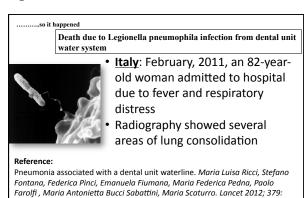






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Death due to Legionella pneumophila infection from dental unit water system

- Legionnaires' disease was promptly diagnosed by Legionella pneumophila urinary antigen test and bronchial aspirate for microbiological examination
- Patient developed fulminant and irreversible septic shock and died 2 days later
- Investigation to find the source of L pneumophila infection revealed Dental Clinic Water Samples showed positive for L... pneumophila ((6.2X10⁴ CFU/mL))

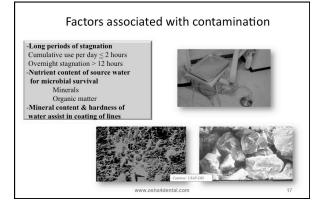
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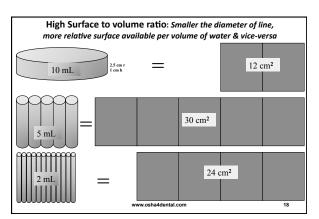
Death due to Legionella pneumophila infection from dental unit water system

- Patient's domestic water samples negative
- Three different typing methods showed the clonal relation between the clinical and environmental strains.

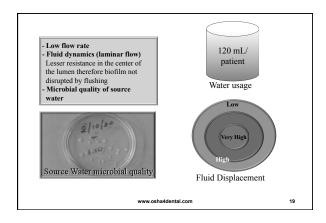
So We now have proof of a death

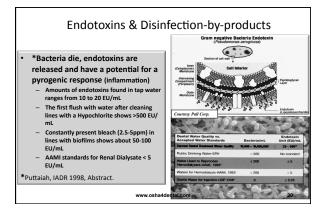
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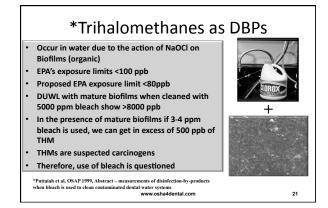


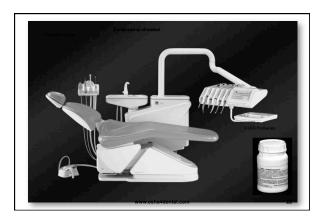


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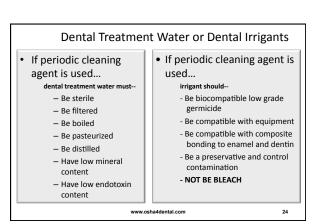








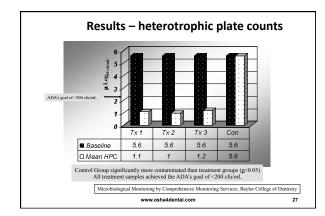


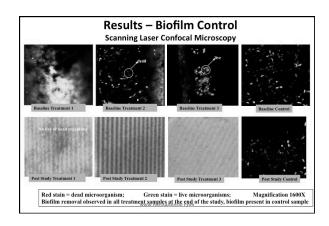


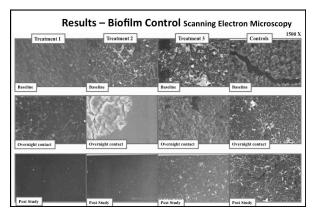
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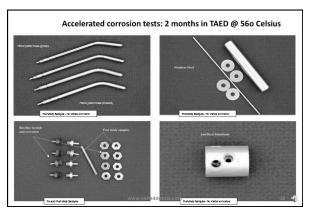


Evaluation of TAED Perborate Simulating the Castellini Autosteril System 4 Dental Unit Water Systems G1 = TAED cleaning between simulated patients + use of Sterile water G2 = TAED cleaning between simulated patients + use of 2ppm ClO2 in tap water G3 = TAED cleaning between simulated patients + use of tap water G4 = No periodic cleaning or chemical regimen + use of tap water only

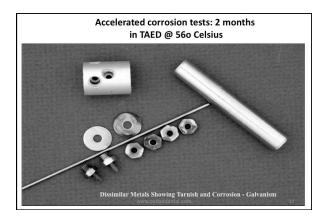








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Conclusion

- · Reduces workload for employees
- Removes Biofilms
- · Colony counts almost ZERO
- · Chemical very compatible with the Autosteril System
- · Exceeds CDC's and ADA's requirements
- May be a good alternative in areas where the US regulations are not applicable for Surgical Water/ Application

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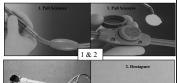
Some items in the US & Other Markets

- •Registration of the chemicals with agencies such as the United States Environmental Protection Agency (US-EPA)
- and clearance of the United States Food and Drug Administration (US-FDA) or agencies in the European Union (EU) for safety issues or with Regulatory Agencies in India
- ·Biofilms and other deposit removal efficacy
- •Proven Compatibility with metals, plastics and rubbers in the water system
- •Proven evidence of easy removal of periodic cleaning agent from the water system
- Biocompatibility of periodic cleaning agent and irrigant with humans
 Should not produce dangerous disinfection-by-products such as trihalomethanes
- Proven compatibility of irrigant with composites bonding to enamel and dentin

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Some methods of microbial control

- · Physical Methods
 - Single-patient-use (0.22 micron) with endotoxin retention capability
 - 2. Daily change Point-ofuse (0.22 micron) filters
 - Weekly change pointof-use (0.22 micron) filters
 - 4. Weekly change pointof-use filter cartridges with iodinated resin



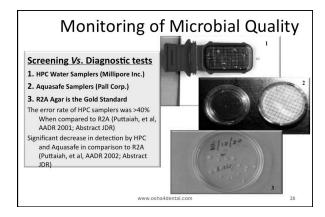
ainh et al, A Malti-Group Longitudinal Study of Denetal Unit Waterline Contamination, IADR 1996, Abstract
ainh et al, Effects of Constantly Present Low Grade Indian on Dental Unit Waterline Biofilm and Planktonic Contamination. 1999 OSAP, Abswww.osha4dental.com 34

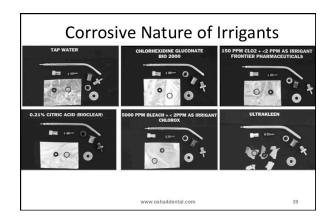
Constantly Present Germicide — DentaPure Typ to 4 ppm elemental Iodine

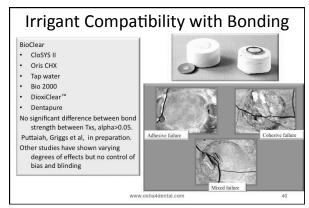


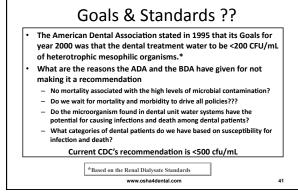
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