

Endodontic study 2014

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Determining antibacterial effect of Bluem oxygen fluid for endodontic purposes: in vivo

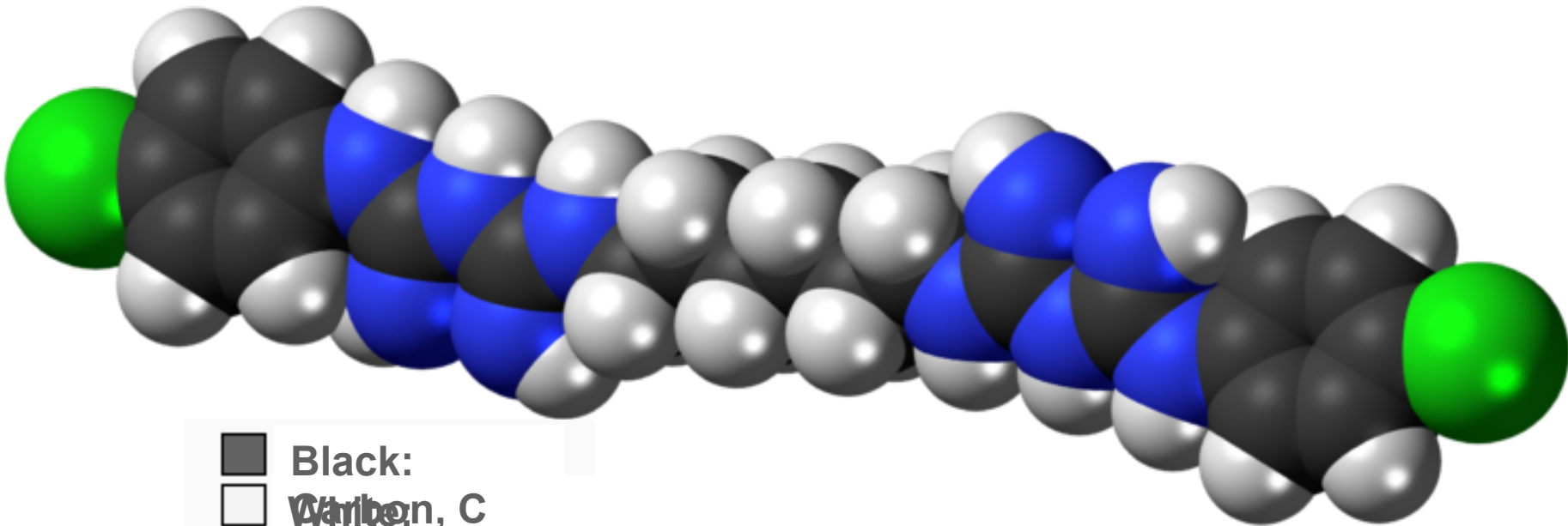
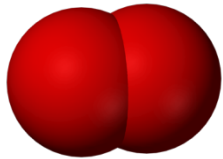
Results:

- The result suggest that Bluem oxygen fluid is more effectively than 5,25% NaOCl and almost as effective as Chlorhexidine.

	5 min. after the sample			24 h. after the sample		
	NaOCL 5.25%	CHX 2%	Bluem	NaOCL 5.25%	CHX 2%	Bluem
No growth	8	13	10	6	11	9
Growth	7	2	5	9	4	6

Biofilm penetration

- Oxygen molecules (O₂) can penetrate much deeper into the biofilm to kill the anaerobic bacteria than the Chlorhexidine (C₂₂H₃₀Cl₂N₁₀) molecule
- Oxygen molecule (O₂) can penetrate much deeper into the perimucosal seal around the implant.



Black	Carbon, C
White	Hydrogen, H
Blue	Nitrogen, N
Green	Chlorine, Cl
Red	Oxygen, O

Bluem current range

• Qualification based on oxygen release measured in 1-100 mg/l O₂.

I. Bluem Professional Line (medical device)*
 Oxygen release > 20 mg/l O₂

Treatment

- Professional implant care gel (15 ml.)
- Professional oxygen fluid (500 ml.)

II. Bluem Consumer Line (with bluem honey oxygen technology) Oxygen release < 20 mg/l O₂

Prevention

- Toothpaste (75 ml., 15 ml.)
- Mouthwash (5000 ml., 500 ml., 50 ml)
- Mouth spray (15 ml.)

* Currently the Bluem Professional line is sold as cosmetics.

	Product	Result
	Bluem professional implant care oral gel 15 ml/200 ml	> 100mg/l O ₂
	Bluem toothpaste 15 ml/75 ml	+/- 20 mg/l O ₂
	Bluem mouthwash 50 ml/500 ml	+/- 20 mg/l O ₂
	Bluem professional oxygen fluid 500 ml	1- 40 mg/l O ₂

