



OCALA REGIONAL  
MEDICAL CENTER

March 6, 2008

Paul J. Rucinski, M.D.  
4037 SW 93<sup>rd</sup> Drive  
Gainesville, FL 32608

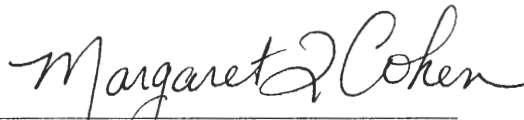
RE: Chlorhexidine Gluconate (CHG) bacterial study (August 24<sup>th</sup> – September 12, 2006)

Dear Dr. Rucinski

Attached is the matrix regarding the bacterial study of various concentrations of chlorhexidine gluconate plated against both hospital and community acquired MRSA as well as coagulate negative staphylococci from Ocala Regional Medical Center .

Using standard laboratory practice(s), the identical bacterial samples were used for each bacteria group and placed on blood agar plates. The CHG was diluted with sterile water. Once the plates were inoculated with the selected bacterium, a strip was placed in the center that had been saturated with CHG at the selected concentration. The plates were incubated and observed daily for 14 days. CHG destroyed all bacterial contamination underneath and formed a clear “halo” around the strip approximately equal to the total width of the strip. The bacterium was inhibited from the “halo” area for the entire 14 day period.

CHG was effective in both destroying and inhibiting all three bacterial groups at concentrations tested.



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% CHG at DAY	MRSA H		MRSA C		Coag neg Staph	
	2	14	2	14	2	14
4	X H	X H	X H	X H	X H	X H
3	X H	X H	X H	X H	X H	X H
2	X H	X H	X H	X H	X H	X H
1	X H	X H	X H	X H	X H	X H
0.5	X H	X H	X H	X H	X H	X H
0.25	X H	X H	X H	X H	X H	X H
0.0125	X H	X H	X H	X H	X H	X H
0.0625	X H	X H	X H	X H	X H	X H
0.05	X H	X H	X H	X H	X H	X H
0.03125	X H	X H	X H	X H	X H	X H

X = No evidence of bacterial growth around strip

H = Halo present around strip

<b>MRSA H</b>	<b>Methicillin-resistant <i>Staphylococcus aureus</i> HOSPITAL ACQUIRED</b>
<b>MRSA C</b>	<b>Methicillin-resistant <i>Staphylococcus aureus</i> COMMUNITY ACQUIRED</b>
<b>Coag neg Staph</b>	<b>Coagulase negative staphylococci</b>
<b>%CHG</b>	<b>Percent of Chlorhexidine Gluconate diluted in sterile water</b>