



Science Fair Project- Analysis & Discussion

Analysis & Discussion The primary objective of this investigation was to test ultraviolet radiation as an alternative disinfectant for *Acanthamoeba* in its more resistant cyst form.

A previous study had already shown that multipurpose solutions were ineffective compared to hydrogen peroxide based systems at eliminating *Acanthamoeba* trophozoite contaminations. 5 This was a follow-up to that study. Another goal of this study was to test the effectiveness of hydrogen peroxide in eliminating *Acanthamoeba* cysts as well. Since trophozoites are the more susceptible form of *Acanthamoeba*, multipurpose solutions tested previously were not evaluated against cysts because they are not effective at eliminating the less resistant form of the organism. From prior knowledge, numerous studies, and from current commercial applications, it has been demonstrated that ultraviolet radiation is a reliable source for disinfecting microorganisms. More specifically, the UVC wavelength (200-260 nm) is microbicidal as compared to other wavelengths.

8, The currently available system for contact lens disinfecting using UVC is called the PuriLens System. Only a single published report concerning the effectiveness of this system showed its limited abilities eliminating *Acanthamoeba* cysts. 15 In general, there have been very few studies that tested any type of protozoan cyst sensitivity to UV radiation. 8,9 The few studies that have been performed implied that *Acanthamoeba* cysts are among the most hardy cyst forms and require longer exposure and a higher concentration of UV radiation. 8,9 An analysis of the data showing growth or no growth allowed several observations and conclusions to be made.

It seemed that the PuriLens system did an adequate job of disinfecting both *Acanthamoeba* cysts and trophozoites since no growth appeared on the plates at any time period. The hydrogen peroxide based system also showed satisfactory disinfection of cysts since again no growth was evident. The homebuilt UV radiator did not eradicate *Acanthamoeba* cysts with exposure time for less than 15 minutes. The data suggested that *Acanthamoeba* cysts need at least 15 minutes or more of exposure to UVC radiation in order for complete disinfection.

The growth on the plates at 24 days was confirmed to have decreased significantly from the growth shown at ten days for all of the plates having growth. One problem noted in the PuriLens system before the experiment was that the contact lenses were not being directly exposed to UVC light. However, because the PuriLens system has an agitator, the organisms, sticking to the contact lens are supposed to be dislodged into the solution and then would be in the direct path of the emitted UVC photons. The homebuilt UV radiator was the alternative in order to compare whether or not this would affect the disinfection process of the contacts. The contact lenses in the homebuilt radiator were directly exposed to the UV lamp unlike the PuriLens.

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