

Pharmaceutical/medical products for the treatment of conjunctivitis exist in the form of eye drops/ointment. Thus from my recent experience, the antibiotic (chloramphenicol) is currently available only in the form of eye drops/ointment for the treatment of bacterial conjunctivitis for children aged 2+ years. I am sure that one must have come across cases where the toddler makes it impossible for the parents to administer the eye drops/ointment. In such cases, the child ends up being restrained and/or the parents eventually give up. My little girl Olivia also resisted and made it impossible for us to administer the eye drops when she had conjunctivitis. Also I don't know why we were advised that the ointment was not suitable. However, the ointment would also be difficult to administer because probably like any other toddler, my little girl would not stay still for applying the ointment into the eyes, and there is still a chance that a struggling toddler would get poked in the eye by the tip of the applicator. We waited to see if the eye infection would clear on its own, but her condition worsened. I remembered how Lister successfully used an antiseptic spray during surgery in 1867. Therefore, I thought of spraying the antibiotic into my daughter's eye area. My idea worked and when the doctors saw Olivia, they seemed happy with the way I had to deliver the antibiotic. The doctor said whatever I did has worked and gave me same prescription to finish off the antibiotic course treatment, because I explained how I had run out as I had to use a lot of drops to be able to pump up and generate a spray. Briefly this is how I prepared the antibiotic spray - I used Johnsons hair conditioner bottle (No More Tears formula indicating any residual conditioner would be safe for the eyes). Since it is a heat labile antibiotic, I thoroughly washed the bottle with cold tap water (drinking water) and the same shower water goes in her eyes so it is no different. Then I pumped out residual water but did not worry about aerosol remnants that may dilute the antibiotic concentration by a minuscule amount. Since it is an antibiotic, it does not need sterile conditions prior to use. Therefore, using aseptic transfer techniques, I transferred ~30 drops of the antibiotic to the bottle so that it would be possible to pump up and generate a spray. Approximately 2 sprays in the eye area felt the same as 1 drop in the eye and I reasoned that this was far better than no medication at all into the eyes. I currently work in the Bowel Cancer Screening laboratory. I have graduated in Microbiology with First Class and achieved the equivalent of Distinction in IBMS accredited Biomedical Science modules. My husband and my parents supported me (please note that my father holds several patents). My doctors also approved of the method I was compelled to use. I believe that I am the first to innovate this novel idea. Now, I highly recommend manufacturing an eye spray as I am sure this Spray-product will be a great help to many parents who struggle with the eye drops/ointment and give up, thus putting toddlers eye health at risk and also overall health at risk because untreated conjunctivitis infection may spread leading to complications such as meningitis. Since children are usually happy and familiar with hair spray, I could easily spray the antibiotic into my little girl's eye area while she carried on with her daily activities. I believe that she initially thought that I accidentally sprayed her usual hair spray into her eyes, but I think she later realised that it was a treatment for her eyes, yet she was happy for me to continue this spray treatment. This is why I believe an antibiotic eye spray will be a great help to parents struggling with eye drops/ointment. My first aim is to help the patients, and any commercial gain and/or IP rights and the like would be a secondary bonus. I sincerely hope such a product would reach the market in the future.

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