

# Home Remedies of the *Apis mellifera* Kind vs. *Streptococcus*

Gruntmeir, Sidney (School: Central Lee High School)

In order to determine whether *Apis mellifera* home remedies were effective in preventing and shortening the time of *Streptococcus salivarius*, I tested raw natural honey, hydrogen peroxide, and antibiotics. Not everyone can afford healthcare so finding home remedies that can relieve symptoms is a serious topic. I sterilized beads and mixed them with *Streptococcus salivarius* and mixed them onto agar plates. I then added my samples of each of my dependent variables. Then I placed them in the incubator for 5 days at a time before I started my next trial. After 5 days I put the second round of honey, hydrogen peroxide, and antibiotics into plates along with *Streptococcus salivarius* bacteria culture. After 5 days I measured the rings around all of the paper circles to determine how effective they were at preventing and stopping *Streptococcus salivarius*. I then created my honey squares with gelatine and repeated the same steps. My research will determine whether home remedies of the *Apis mellifera* kind are more effective in preventing and shortening the time of *Streptococcus salivarius* or if healthcare antibiotics are the best option.