

# DOES THE GROWTH RATE OF FOOT BACTERIA DEVELOPE GREATER IN MASS FOR OPPOSING GENRES?

## Aim

To determine which gender produces the greatest amount of foot bacteria.

## Introduction

The broader audience has claimed to believe that the male gender develops the greatest amount of foot bacteria, however from this study we now as the responders redefine that perspective to whether the male really do dominate in foot bacteria?

During our project we compared several test analysis over a period of 5 days which the participant remains a control foot, to the subject foot, with the study being varied over multiple participants.

We compared these results to provide over conclusion and prove our thesis as of our found results.

- The skin on your feet is 20 times thicker than on any other part of the human body.
- The pressure on the feet when running can be as much as four times the runner's body weight.
- When walking, each time the heel lifts off the ground it forces the toes to carry one half of the walker's body weight.
- Were you aware that each foot contains 26 bones, 33 joints, more than 100 tendons, muscles and ligaments, and 250,000 sweat glands.

## Procedure

Over the course of the 5 day time period, participants were to remain in the same shoes and socks from initial testings with their left foot remaining as the control for their results, with the control remaining to be washed on the usual daily basis. The right was the test subject, with it ongoing same controls as the left, however not being washed over the testing period.

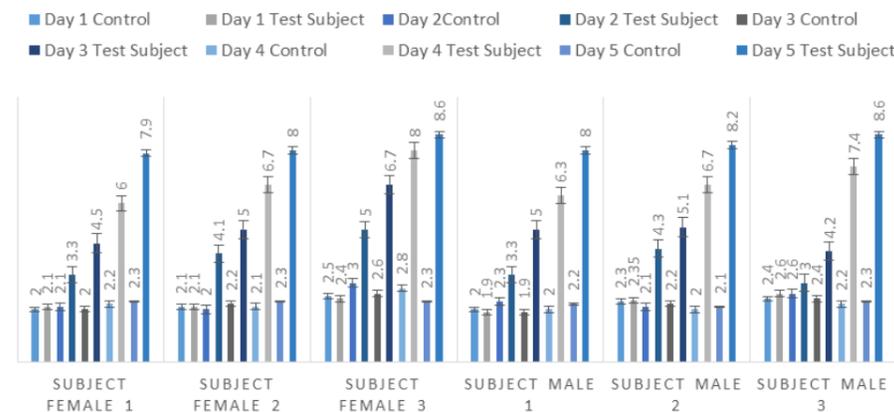
To result in the accumulated project results participants were at 10:00am, once every day over the test period, taken swabs of each foot using a cotton bud, then grown on agar plates for the result to be proven and found.

## Research Questions

- How does bacterial amount differ between genders?
- How does environment advance results?
- How does physical activity levels deter the result?

## How does bacterial amount differ between genders?

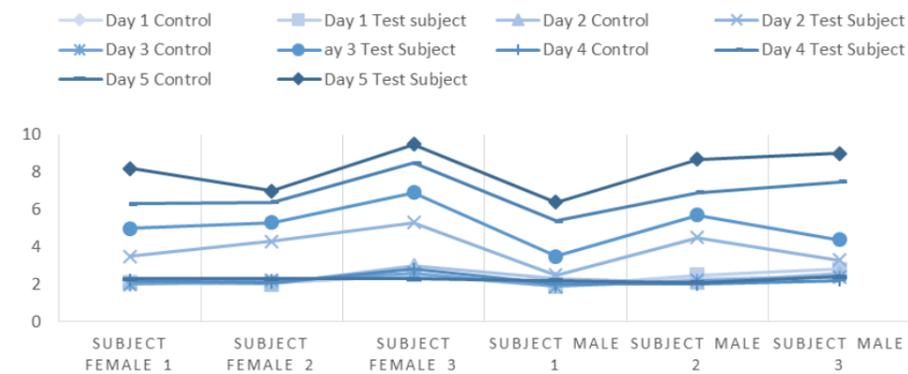
### BACTERIA PROPORTIONAL SIZE DEVELOPMENT



From this evidence we are able to see the progression of results, providing an overall view of all 6 participants and the amount as proportioned of the end of growth allowance size comparison.

## How does physical activity levels deter the result?

### BACTERIAL PROPORTIONAL SIZE DEVELOPMENT PHYSICAL ACTIVITY ANALYSIS



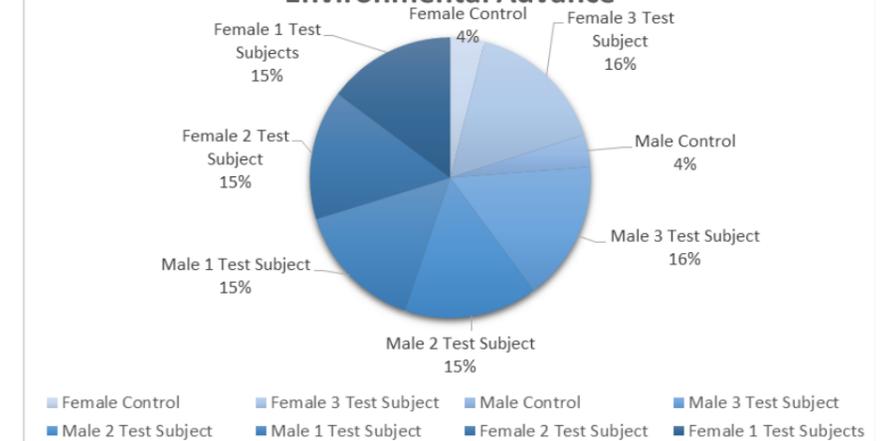
Our participants levels of physical activity varied therefore deterring levels of readings however when overcoming this it proved sufficient as it also allowed for the further testings to prove, and provide evidence to our result.

## Materials

- Cotton Buds
- Agar Plates
- Control Foot
- Independent Foot
- Testing Participants Foot

## How does environment advance results?

### Bacterial Proportional Size Development Environmental Advance



The environment consideration allowed for the testing comparison to the restraints of the feet's exposure, providing a more accurate result measurement when in calculation as we were able to estimate espouser levels.

## Data Collection

- Result were found as the amount of collies grew by a factor of 1.5 – 1.7 in each variable tested
- The colony size remained consistent over the growth state in comparison to individual results
- The type of fungus grew and sought found was similar in appearance via results. Evident from microscopic evaluation. Proved through activity analysis and therefore sought results as measured.

## Recommendations

- Further research.
- Include a wider range of subjects to improve external validity.
- Determine reasons for user rankings of features
- Improve navigability and consistency (Top user suggestion).

## Conclusion

### Evidence

- Sufficient evidence was sought through the course of the experiment as shown in the results provided.
- Therefore in resultant conclusion from evidence provided as from the project, the thesis/aim has been supported as by the results found when conducting the experiment.