

Sanitation in the Residence Hall Bathrooms

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Abstract

- A common problem on college campuses is the rampant spread of infectious diseases, and illness in the communal residence hall bathrooms.2
- Products such as hand sanitizer and anti-bacterial metal finish for bathroom doors, will lower the rate of illness and improve student health.

Introduction

- Students health suffers nationally at college. The heart of this problem is in residence hall bathrooms.
- The failure to wash one's hands leads to the harboring of illness in high traffic areas such as bathroom doors.1
- Bathroom doors require your hands to exit. This allows transfer of bacteria to those who do wash their hands.2
- A secondary source of sanitation, such as Purell or Microban, would improve the health of students.3.4
- Attendance rates, and therefore grades, suffer from poor student health. 2

Need and Approach

- Need- To address the problems with current sanitary conditions in the residence hall bathrooms that may be contributing to student illness.
- Approach- Investigate current bathroom cleaning policy, implement a survey to find student need, and research an effective and cost efficient way to improve sanitation.

Methods

Survey-To assess student need, we surveyed 439 people, from every grade, and every residence hall. **Bacteria Cultures-**We swabbed the doors of each residence hall bathrooms to check for bacteria. Interview- We contacted Tom Moreau to learn about current cleaning policy.

Research-Looked into possible solutions.

1st Solution-Purell₃

- Kills 99.99% of most common germs.
- Uses 100% naturally renewable, plant-derived ethanol(Green Product).

2nd Solution-Microban₄

- After day of application, most bacteria eliminated.
- Better for preservation, not human health.

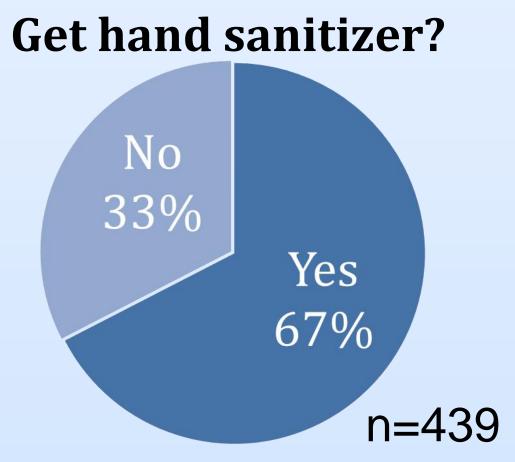




Results

Survey Results-

- 20% of students report that they DON'T ALWAYS wash their hands.
- 76% of the bathrooms require you to touch the handle as you exit.
- 52% of students report that the feel they have gotten sicker while living in residence halls.



Cost Results	
Purell	Microban
Total Cost: \$18,580 per year	Total Cost: \$3.99 per gallon
Additional \$3.21 to tuition	Covers all important surfaces
Bi-weekly refills	One-time application

Bacteria Cultures

Left SIde: Doors before cleaning

Right Side: Door after cleaning



Daniels Hall

Institute Hall



Morgan Hall





Sanford Riley Hall

Stoddard Complex

Conclusions/Recommendations

- There is currently no problem in the school's sanitation methods.
- The problem lies in the lack of student hand-washing.
- As a solution, we recommend the use of Purell.
 - More effective than Microban.
 - High return on investment.
- Future action.
 - Availability in more than just residence halls.

Acknowledgments

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- Thank you to Tom Moreau for partaking in an interview informing us on current sanitation policy in residence hall bathrooms.

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