



Why playing cards?

- Casinos
- **Bridge Competitions**
- Competitor Antimicrobial card is more expensive

Application Methods Used on Card





Clear lacquer with antimicrobial mixed



Spray

Control

Before

After

Antimicrobial Playing Cards By: Blaine Harvey and Meghan McGonagle

Experiments & Results

Experiment #1

Competition



Experiment #2





Lacquer Coating Antimicrobial







Hour 1



Hour 6

Experiment #3

Competition

Initial









Lacquer Coating Antimicrobial







Control

Day 1



Control







Discussion

- Cost Comparison
 - Competition \$10.99
 - Antimicrobial card
 - Lacquer Coating \$6.79
 - Solution \$4.99
- Reasons for failure
- Not enough moisture during incubation
- Sealing on media plates



Next Steps

- Apply antimicrobial to a moldy surface to see if the bacteria dies
- Streak E.coli onto playing cards then transfer to plates after time intervals
- Redo failed experiments ightarrowExperiment #3
- Apply spray and lacquer finishes of different weight %'s of antimicrobial to the cards





