

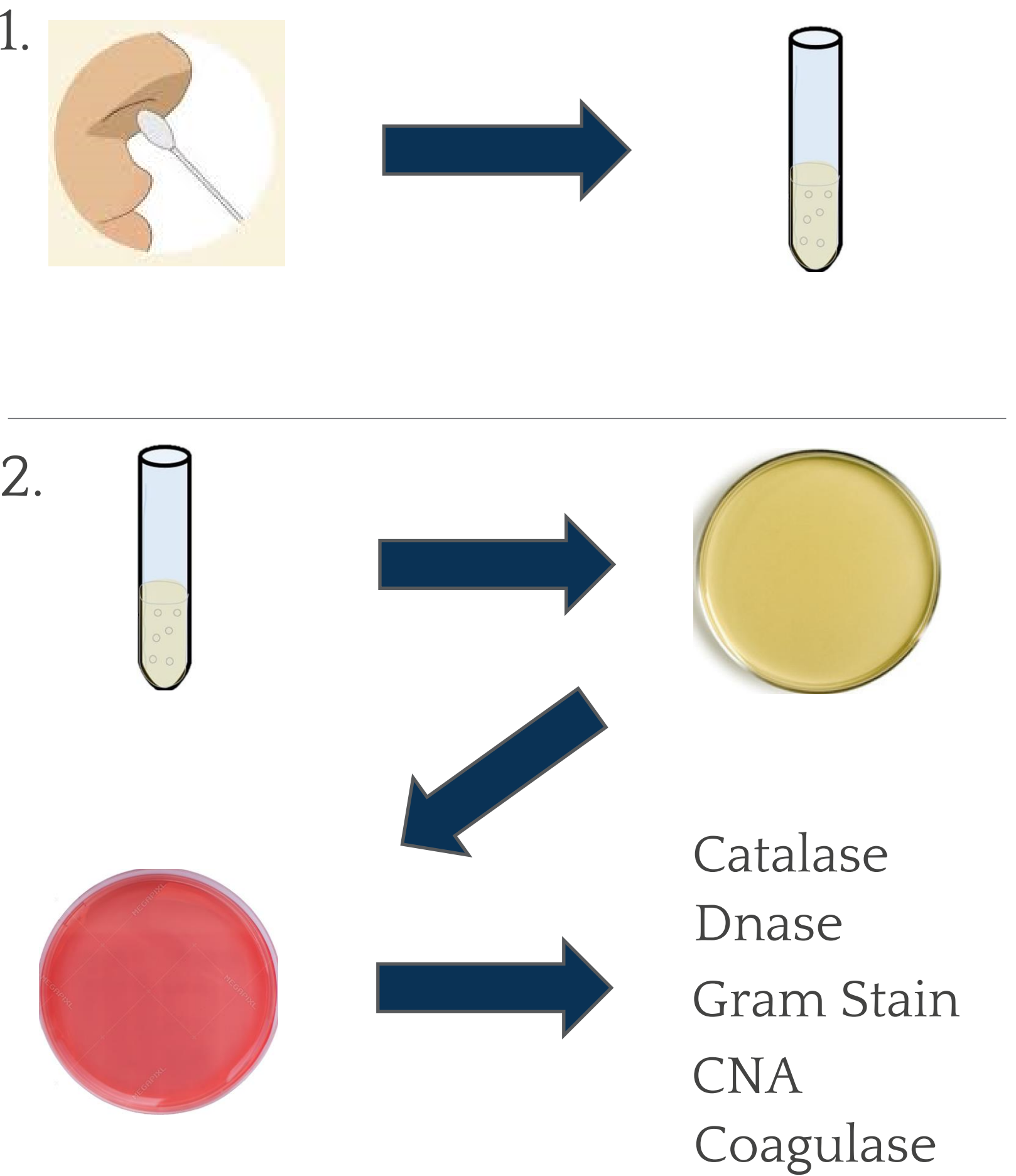
Identifying *Staphylococcus aureus* in nasal swabs from CSP students

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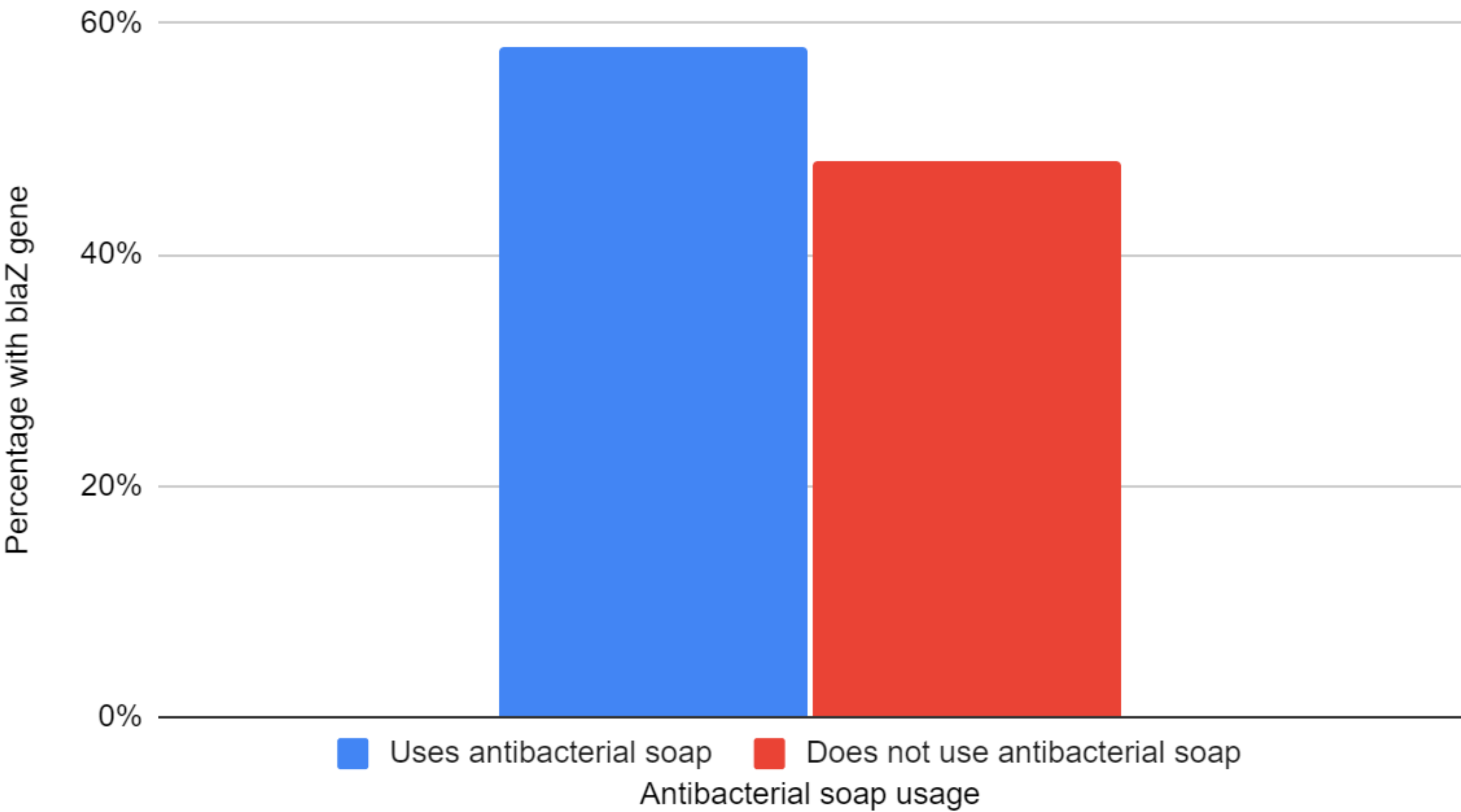
Abstract

The Staph Study at CSP aims to identify bacteria from voluntary students. Swabs of bacteria were collected and cultured. Then, a series of tests were performed to identify the type of bacteria present. It was found that 8 of 12 strains collected were *Staphylococcus aureus* because of the presence of bubbles, light halos, purple clustered bacteria, dark purple halos, and agglutination.

Methods



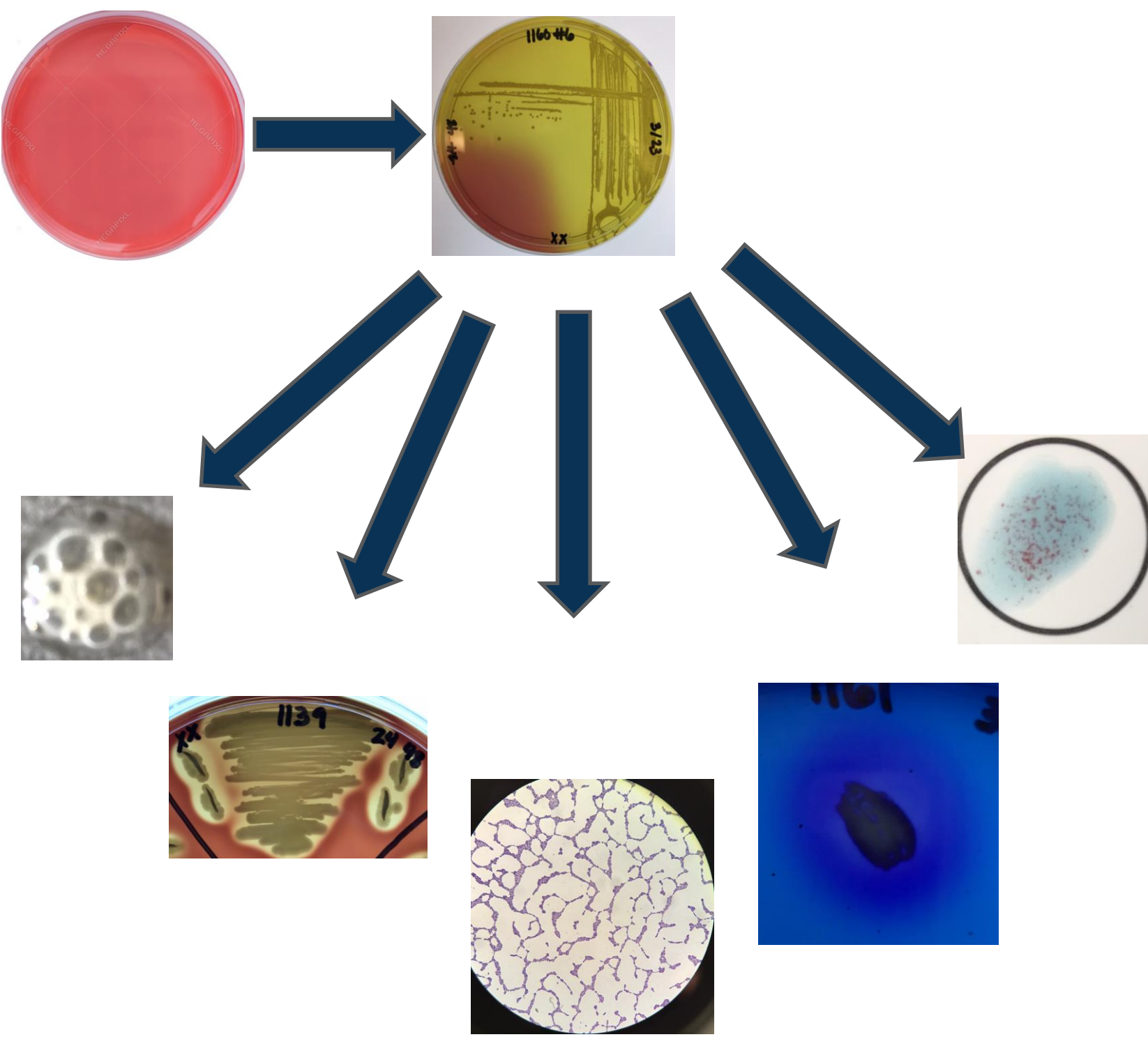
*Staphylococcus aureus* isolates from people that use antibacterial soap have a higher percentage of penicillin resistance.



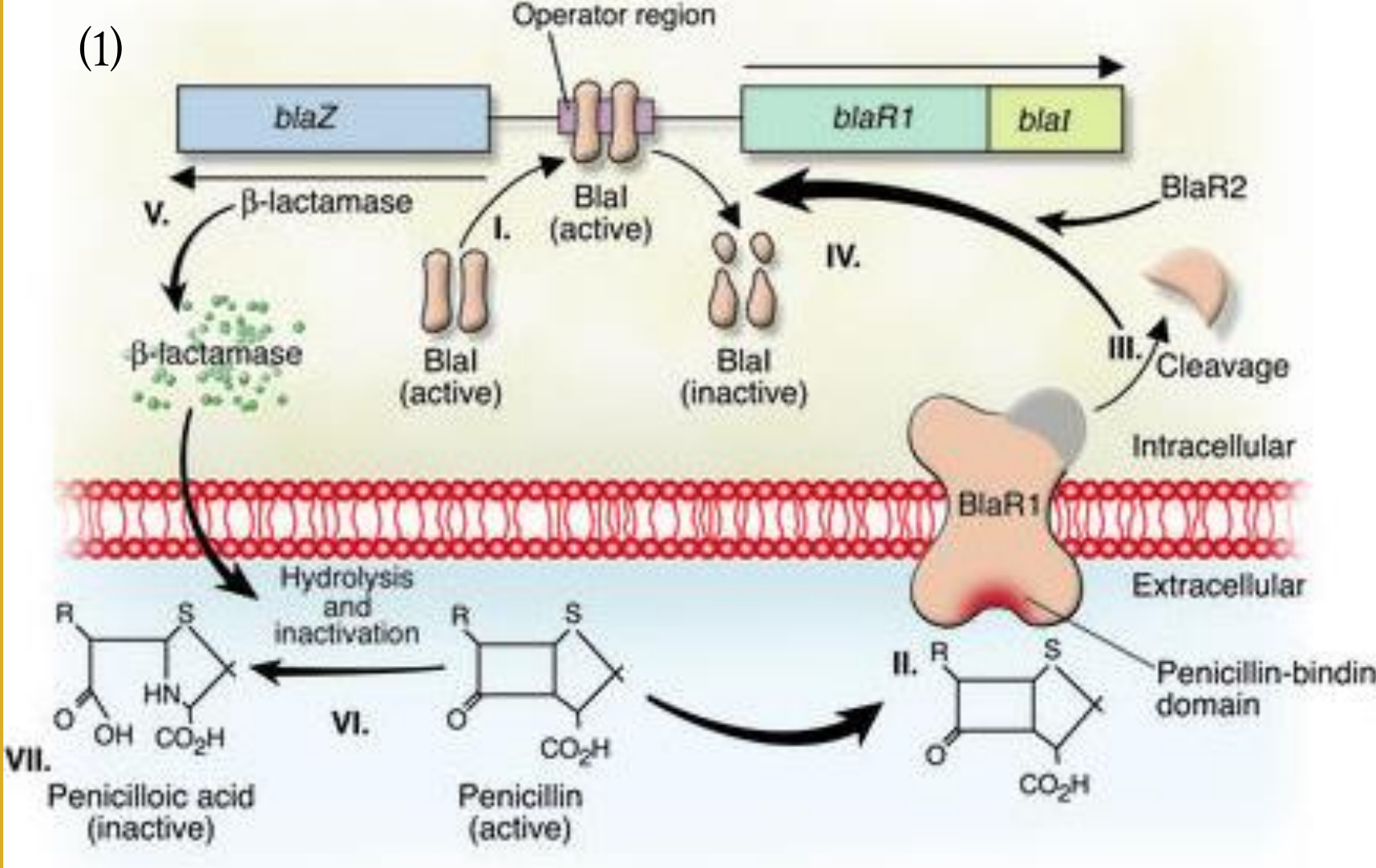
**Figure 1 Antibacterial Soap Usage vs Percent of Students Positive for blaZ Gene.** CSP students volunteered to swab their noses and answer questions related to lifestyle choices. The swabs were cultured and ran through a series of tests to identify the bacteria. Eighty-eight students used antimicrobial soap and 50 students did not use antimicrobial soap. Of those who used antimicrobial soap, 51 students (58%) tested positive for the blaZ gene. Among students who did not use antimicrobial soap, 24 (48%) students tested positive for the blaZ gene.



Results



- It is *S. aureus* if the tests show bubbles, light halos, purple clustered bacteria, dark purple halos, and agglutination
- Of 12 strains tested, 8 are confirmed to be *S. aureus*



Acknowledgements and References

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1. F. D. Lowy, Antimicrobial resistance: the example of *Staphylococcus aureus*. *J Clin Invest.* 111, 1265-1273, (2003).