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## Study of air plasma jet on S. aureus inactivation

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Nowadays, plasma technology has an important role in medical treatment. It is used to help Diabetes Miletus patients with chronic wounds and patients with bedsore to get more effective treatment. It is also used as bactericidal method. This research studied an air plasma jet with the efficiency in inhibitory of *Staphylococcus aureus*. The study aimed to study the effect of number of pulse and treatment time of *S. aureus* inactivation. The numbers of pulse used are 2 4 6 8 10  $\mu$ s and Time of treatment (s) used are 10 30 60 120 300 s. The results showed the effectiveness in killing bacteria. Hundreds of percent of the working area (the same size of the area of the plasma head) was found to increase as the number of pulse is increased. When adding time of treatment, disinfection is more effective.

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