Statement of the Problem **(Revised)**

This study aims to determine the effectiveness of ultra violet lights in disinfecting using an automatic disinfection box.

Specifically, the study sought to find the answers to the following questions:

1. What is the significant difference between ultraviolet-based disinfectant and alcohol-based disinfectant in terms of their effectiveness? **(t test)**

2. What is the significant effect among the different factors listed below in terms of its effectiveness?

a) Intensity of ultraviolet to be used **(one sample t test)**

b) Duration time to ultraviolet light exposure **(2 sample t test for 2, anova 3 or more)**

3. How does the automatic disinfection box be described in terms of: **(descriptive only, weighted mean only of result)**

a) Satisfaction

b) Cost

**Satisfaction**

1. How satisfied were you with using the device?
2. Very dissatisfied.
3. Somewhat dissatisfied.
4. Neither satisfied nor dissatisfied.
5. Somewhat satisfied.
6. Very satisfied.
7. How well does this product meet your needs?
8. It did not meet my needs at all.
9. It met very few of my needs.
10. It met some of my needs.
11. It met the majority of my needs.
12. It met all of my needs.

**Low cost**

1. On a scale of 1 to 5, how reasonably priced do you think this product is compared to other similar products?
2. This product is not a reasonably price at all.
3. This product is a slightly reasonable price.
4. This product is a moderately reasonable price.
5. This product is a very reasonably price.
6. This product is an extremely reasonably price.
7. On a scale of 1 to 5, do you think this product is good value for money?
8. I do not think this product is good value for money at all.
9. I think this product is slightly good value for money.
10. I think this product is moderately good value for money.
11. I think this product is very good value for money.
12. I think this product is extremely good value for money.