**Knowledge On Covid-19, Attitude And Perception Towards Online**

**Learning During The Pandemic Among Public Junior High School**

**Science, Technology, And Engineering (STE) Students In Valenzuela**

**City**

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| **1. Abstract** |
| The COVID-19 pandemic hit the Philippines which forced the education system to shift instantaneously to an online curriculum. This study aimed to determine the knowledge, attitude and perception on virtual learning of junior high school Science, Technology and Engineering (STE) students in Valenzuela. A cross sectional study with purposive sampling method, and Chi-square as the statistical test was done. The study was executed from a sample size of 109 using Slovin's formula with a 5% margin of error. Awareness of the pandemic, knowledge about vaccines and its potential to stop the spread were agreed by the majority that it would be best if everyone will be vaccinated. Many students agreed that the implementation of Enhanced Community Quarantine was proven to prevent transmission and reduce the number of cases. Majority still possess an attitude wherein they stay up on their readings, listen to online classes, and read their lectures. Many of the students adapted to this new normal to meet their requirements and to finish the academic year. Classroom preference clearly exceeds virtual social interaction. The backlogs of academic workload, extra adjustment and suffering in this pandemic pushes them to greater pressure simultaneously with the responsibility to maintain their academic standing. |
| **2. Introduction and research problem** |
| The COVID-19 pandemic created a substantial impact on the function of education systems, a number of which were already stressed in several aspects. This was true and experienced across the country and affected all students through various factors. Multiple students observed themselves unable to consistently participate in online learning setup due to bandwidth limitations which caused them to lag behind. This study aimed to determine if there would be a significant difference in the knowledge, attitude, and perception between virtual education over the traditional learning among these participants during this pandemic. |
| **3. Methods** |
| A Cross sectional study was done among Filipino junior high school STE students in a government school to determine their knowledge, attitude, and perception of virtual learning during this COVID-19 pandemic. Researchers utilized a purposive sampling method to determine the 109 Filipino junior high school STE students currently enrolled in a government school. Knowledge, attitudes, and perceptions of the junior high school STE students were the dependent variables while virtual education was the independent variable and both variables were quantitative data. In this case, the statistical test that was used was Pearson Chi-square. This was approved by the ethics review board before data gathering was done. |
| **4. Results and findings** |
| In terms of students' knowledge of COVID-19 dangers and the efficiency of preventative measures, 92.50% had sufficient information. Moreover, student's attitude during virtual learning such as engaging in conversations online through chat, email and discussion, getting to know other students in the class, and having fun in online chats, discussions or via email with the instructor or other students as a characteristic of them. Concerning the students’ perception for choosing online-blended learning, the majority of them wanted to finish their academic requirements, and think that it would be safer to study at home than go to school during this time of pandemic. |
| **5. Conclusions, implications and significance** |
| Although virtual social interaction was enhanced by the students, it still clearly exceeded and favored student's preference to learn inside the classroom where face to face interaction is just a normal human response. Likewise the extra adjustment, piling academic workload while suffering in this pandemic, and thinking about the finances of both their studies and families. This pushed them to greater pressure, while having to maintain their academic performance and be in the midst of all this unpredictable predicament. |
| **References (Selected)** |
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