



De La Salle University - Dasmariñas

**STRATIFICATION OF BARANGAYS IN THE CITY OF DASMARIÑAS  
CAVITE BY MEANS OF HEALTH: A CLUSTER ANALYSIS**

An Undergraduate Research Presented to  
The Mathematics Department  
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### ABSTRACT

This study is entitled “*Stratification of Barangays in the City of Dasmariñas Cavite by Means of Health: A Cluster Analysis*”. It aimed to use cluster analysis in stratifying the barangays in the City of Dasmariñas, Cavite in terms of the common diseases. It also aimed to know the possible causes of those diseases. Primary and secondary sources were used in the study. For primary data the researchers went to the City Health Offices to gather the morbidity of each barangay. A statistical tool was used to process the gathered data. The results from the statistical tool were used as basis for the data analysis. Secondary resources were taken when the researchers went to the barangay health centers and conduct some interviews to support the findings.

Based on the result that the researchers obtained using statistical tool there are 30 barangays that fall on Cluster 1, 18 barangays on Cluster 2, and 27 barangays in Cluster 3. The three clusters obtained were named “Hereditary and environment caused diseases”, “Residents’ lifestyle caused diseases” and “Food and weather caused diseases”. These names were based from the possible causes of the top 5 common diseases that affected the barangays according to the barangay centers’ resident physician.

The results of the study lead to the conclusion that human lifestyle, the food they eat, the environment they had and the sudden change in the weather have a big factor in keeping their body healthy. And the awareness with this would be a big help to lessen the occurrence of these diseases. And cluster analysis was a perfect tool for stratification.



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