

ABSTRACT

Analysis of Surabaya Community Eye Health Clinic Strategic Location Using Gravity Center Approach Analytical Theory as a Base to identify Social Loss (A Case Study in Surabaya)

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Accessible location is very influential to health service utilization rate which is very much determined by the transportation and the travel distance to the location. Therefore, to find out an ideal location for a health clinic, analysis can be done using gravity center approach method. The health facility mentioned is the Surabaya Community Eye Health Clinic (SCEHC).

This was a cross sectional study carried out from February to August 2005. The population was stake holders namely the SCEHC management, Provincial Health Office management and SCEHC patients. Respondents were 108 people and the variables observed were: age, education, income, vehicle, time, transportation cost, social-loss, strategic location, transportation total cost and total travel-distance. A Focus Group Discussion was held after the statistical and gravity center approach analysis was conducted.

The result showed that the ideal location, theoretically was in Menanggal village of Gayungan district, on the south side of Waru circle, or 8 km from the new SCEHC at East Gayung Kebonsari street. The total transportation cost and travel-distance from Surabaya's entry points were Rp. 5.685.641.908 and 208,0992509 km. The difference between the ideal location to the new location was Rp 1.312.465.480 and to the old location was Rp.7.737.202.412. The social-loss after the relocation were time loss, cost, fatigue, unfamiliar location, traffic jam, transportation difficulties, stress, leaving the family and work.

The conclusion was that the ideal SCEHC location, theoretically was in the south side of Waru circle. To prevent any constraints facing the relocation it is best to socialize the new location reducing social-loss after the relocation, and a location map of the new SCEHC location in leaflets to be spread around all Surabaya city point-of-entry.

Key words: Gravity Center Approach Method, total cost, total travel distance, new SCEHC, old SCEHC