

A17 Assessment of availability of sport facilities and recreational resources in a state of Penang

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The association between the build environment and the sport engagement is showed to be promising on maintaining general and optimal general health outcomes for all populations. To fill this research gap, the pattern and availability of sport facilities and recreational resources were accessed based on districts in Penang. Sport facilities and recreational resources in Penang were collected mainly using Google Maps and Google Street View, and recreational resources were classified according to the area measured in QGIS. The relationship between the availability of sport and recreational resources, and population size were determined using SPSS software. A total of 1609 facilities, comprised 16 sport facilities and 7 recreational resources were collected from five (5) districts in a state of Penang. Of these sport facilities and recreational resources, about 88.6% are considered as public-based, whereas about 11.4% were owned by private-based organizations. Sport and recreational facilities in public setting tended to be 8 times higher compared to private-owned facilities, with ratio of 8:1. In general, recreational resources (61.0%) had found to be higher than the total sport facilities (39.0%) in all districts in Penang. There were 84.3% of sport facilities and recreational resources located in urban areas of Penang, while 15.7% located in rural areas. For service population ratio, one facility served for 527 to 1490 individual. A significant positive association between the sport facilities ($r=0.802$, $p<0.01$) and recreational resources ($r=0.756$, $p<0.01$), and total population sizes was found in the present study, regardless of the districts assessed. Central Seberang Perai has recorded the highest numbers of total and public-based sports and recreational facilities located in urban areas. The availability of sport facilities and recreational resources were significantly and proportionately related to the total residents in Penang, but the types of sport facilities available varies across five districts in Penang.