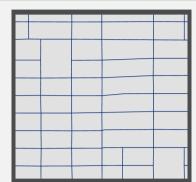
Neighbourhood Design & Physical Activity

In a recent Canadian study*, levels of transportation and leisure physical activity among grid and warped-grid neighbourhood residents were compared to curvilinear neighbourhood residents...

Grid Design



- High levels of pedestrian connectivity
- Mix of land uses
- Treed boulevards
- Sidewalks on both sides of the street
- High walkability

Warped-Grid Design



- Crescent street patterns/curved roads
- Moderate pedestrian connectivity
- Sidewalks directly adjacent to roads
- Medium walkability

Curvilinear Design



- Strip of auto-oriented commercial land
- High volume collector roads
- "Loops and Lollipops" street pattern
- Low pedestrian connectivity
- Sidewalks missing from some streets
- Low walkability

Grid residents experienced significantly higher levels of participation in...

Warped-grid residents experienced higher levels of participation in...



Transportation walking



Leisure cycling



Transportation cycling



Transportation cycling



Vigorousintensity leisure physical activity



Vigorousintensity leisure physical activity

No neighbourhood differences in time spent in transportation or leisure physical activity were found.

Neighbourhood design may encourage transportation and leisure physical activity in Canadian adults.

*For more information: McCormack GR, Koohsari MJ, Oka K, Friedenreich CM, Blackstaffe A,

Alaniz FU, Farkas B. Differences in transportation and leisure physical activity by neighbourhood design controlling for residential choice. Health Sport and Science. 2019. doi: https://doi.org/10.1016/j.jshs.2019.05.004

<u>References:</u>

1. Sandalack BA, Alaniz Uribe FG, Eshghzadeh Zanjani A, Shiell A, McCormack GR, Doyle-Baker PK. Neighbourhood type and walkshed size. Journal of Urbanism: International Research on Placemaking and Urban Sustainability. 2013 Nov 1;6(3):236-55.



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