

South Africa - Urban upgrading and levels of interpersonal violence in Cape Town, South Africa: the Violence Prevention through Urban Upgrading Programme

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Overview

Identification

ID NUMBER

UrbanupgradingandlevelsofinterpersonalviolenceinCapeTownSouthAfrica-theViolencePreventionthroughUrbanUpgradingProgramme

Overview

ABSTRACT

Background

Violence Prevention through Urban Upgrading applies a second-generation crime prevention through environmental design, which includes built environment interventions alongside social programmes and community participation initiatives. We assessed the association between the intervention and reported experience of violence in Khayelitsha, one of South Africa's poorest and most violent suburbs.

Method

We conducted a retrospective population-based study using survey data from 3625 geo-located households collected between 2013 and 2015 and mapped alcohol outlets across the study area. Generalized linear models helped estimate and compare self-reported experience of violence adjusting for known confounders, which included area and household deprivation as well as alcohol outlet density.

Findings

Living in close proximity to the upgraded urban infrastructure was associated with a 34% reduced exposure to interpersonal violence after adjusting for confounders. This association was consistent across age and gender. Access to additional social programmes alongside the urban upgrading intervention was not associated with further reduction in risk.

Interpretation

The association between urban-upgrading and reduced exposure to interpersonal violence supports its inclusion among interventions in national and local crime prevention policies to address social and structural environments.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Richard Matzopoulos	South African Medical Research Council

Sampling

No content available

Questionnaires

No content available

Data Collection

Data Collection Dates

Start	End	Cycle
2013-01-01	2015-12-31	N/A

Data Processing

No content available

Data Appraisal

No content available

File Description

Variable List

VPUU_violence_analysis

Content

Cases 3450

Variable(s) 15

Structure Type:
Keys: ()

Version

Producer

Missing Data

Variables

ID	NAME	LABEL	TYPE	FORMAT	QUESTION
V1	case	case	contin	numeric	
V2	year	year	discrete	numeric	
V3	sex	sex	discrete	character	
V4	age	age	contin	numeric	
V5	vpuu	vpuu	discrete	character	
V6	vpuusoc	vpuusoc	discrete	numeric	
V7	violence_any	violence_any	discrete	character	
V8	violence_sev	violence_sev	discrete	numeric	
V9	socialcohesion	socialcohesion	discrete	numeric	
V10	area_dep	area_dep	discrete	character	
V11	house_dep	house_dep	discrete	numeric	
V12	youngage	youngage	discrete	numeric	
V13	distance_m	distance_m	contin	numeric	
V14	mapref_geo	mapref_geo	contin	numeric	
V15	invdensity	invdensity	contin	numeric	

case (case)

File: VPUU_violence_analysis

Overview

Type: Continuous	Valid cases: 3450
Format: numeric	Invalid: 0
Decimals: 0	Minimum: 1
Range: 1-4531	Maximum: 4531
	Mean: 2453.6
	Standard deviation: 1312.2

year (year)

File: VPUU_violence_analysis

Overview

Type: Discrete	Valid cases: 3450
Format: numeric	Invalid: 0
Decimals: 0	
Range: 2013-2015	

sex (sex)

File: VPUU_violence_analysis

Overview

Type: Discrete	Valid cases: 3363
Format: character	Invalid: 0
Width: 1	

age (age)

File: VPUU_violence_analysis

Overview

Type: Continuous	Valid cases: 3240
Format: numeric	Invalid: 210
Decimals: 0	Minimum: 18
Range: 18-95	Maximum: 95
	Mean: 40.6
	Standard deviation: 13

vpuu (vpuu)

File: VPUU_violence_analysis

Overview

Type: Discrete	Valid cases: 3450
Format: character	Invalid: 0
Width: 9	

vpuusoc (vpuusoc)

File: VPUU_violence_analysis

Overview

Type: Discrete
Format: numeric
Decimals: 0
Range: 0-1

Valid cases: 3450
Invalid: 0

violence_any (violence_any) File: VPUU_violence_analysis

Overview

Type: Discrete
Format: character
Width: 3

Valid cases: 3450
Invalid: 0

violence_sev (violence_sev) File: VPUU_violence_analysis

Overview

Type: Discrete
Format: numeric
Decimals: 0
Range: 0-1

Valid cases: 3450
Invalid: 0

socialcohesion (socialcohesion) File: VPUU_violence_analysis

Overview

Type: Discrete
Format: numeric
Decimals: 0
Range: 4-20

Valid cases: 1039
Invalid: 2411

area_dep (area_dep) File: VPUU_violence_analysis

Overview

Type: Discrete
Format: character
Width: 8

Valid cases: 3450
Invalid: 0

house_dep (house_dep) File: VPUU_violence_analysis

Overview

Type: Discrete
Format: numeric
Decimals: 0
Range: 1-2

Valid cases: 3450
Invalid: 0

youngage (youngage)

File: VPUU_violence_analysis

Overview

Type: Discrete
Format: numeric
Decimals: 0
Range: 0-1

Valid cases: 3450
Invalid: 0

distance_m (distance_m)

File: VPUU_violence_analysis

Overview

Type: Continuous
Format: numeric
Decimals: 2
Range: 1.7301709-5676.9994

Valid cases: 3387
Invalid: 63
Minimum: 1.7
Maximum: 5677
Mean: 2291.4
Standard deviation: 1399.7

mapref_geo (mapref_geo)

File: VPUU_violence_analysis

Overview

Type: Continuous
Format: numeric
Decimals: 0
Range: 1-3048

Valid cases: 3450
Invalid: 0
Minimum: 1
Maximum: 3048
Mean: 805.2
Standard deviation: 645.7

invdensity (invdensity)

File: VPUU_violence_analysis

Overview

Type: Continuous
Format: numeric
Decimals: 2
Range: 3.49406-154.9187

Valid cases: 3450
Invalid: 0
Minimum: 3.5
Maximum: 154.9
Mean: 31.2
Standard deviation: 21.2

