

Standardized Mortality Ratios among Street-Connected Youth with a High Burden of HIV in an Urban Setting in Sub-Saharan Africa

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Background

- Street-connected youth (SCY) live, work, or spend the majority of their time on the street¹
- SCY experience a high burden of morbidity related to violence, infectious disease, sexual health & substance use²
- A 2016 point-in-time count found 1419 street-connected youth (SCY) ages 0-29 living in Eldoret, Kenya³
 - HIV seroprevalence: 4.1%
- A 2017 study found that SCY in Eldoret die primarily of preventable causes, including HIV/AIDS, assaults, & accidents⁴
- Our goal: **estimate standardized mortality rates (SMRs) among SCY in Eldoret, Kenya compared to the general Kenyan adolescent population**

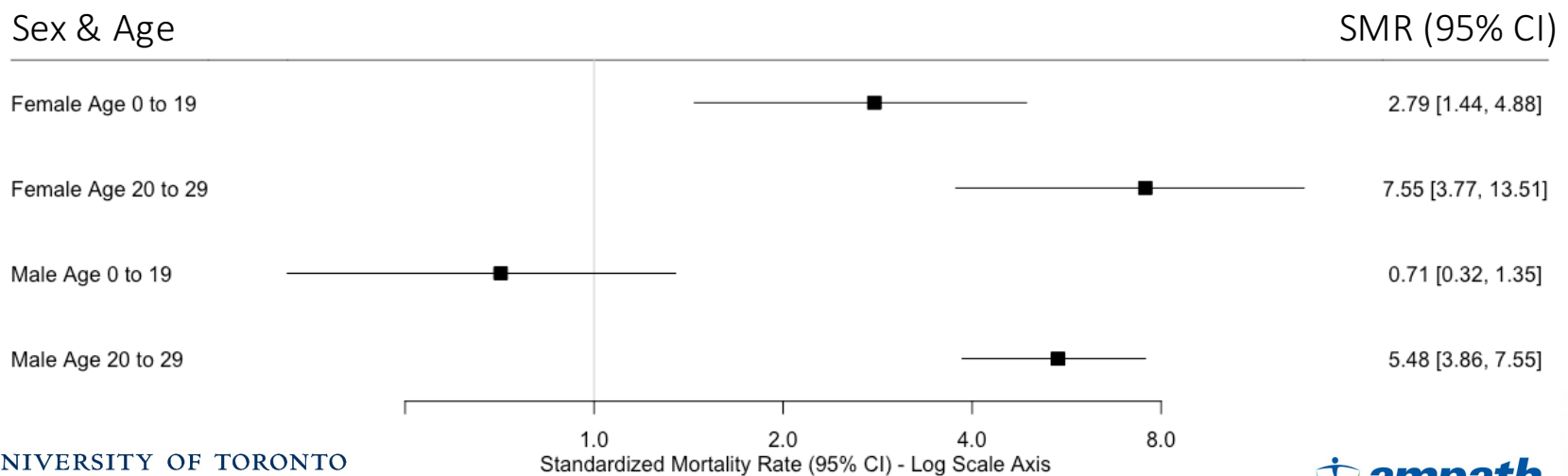
Methods

- Data on deaths among SCY in Eldoret were collected from 2010-2016 ⁴
- Data on size of the Eldoret SCY population in 2016 were collected via point-in-time count ³ → an estimate for the 2013 SCY population was back-calculated by applying rate of change in the Kenya <30 population to the 2016 SCY population
- Data on Kenyan general adolescent population size & deaths from 2010-2015 were obtained via World Population Prospects (public, online)⁵
- SMRs were calculated by dividing observed by expected number of SCY deaths
- Expected number of SCY deaths were calculated by multiplying the Kenyan adolescent death rate from 2010-2015 by the total SCY population in 2013

Table 1. Population and number of deaths among SCY in Eldoret, 2010 - 2015

Sex & Age	SCY 2016 Population	SCY 2013 est. Population	SCY Deaths 2010-2015	SCY Mortality Rate per 1000	Kenya Mortality Rate per 1000
Males					
0-19	542	504	9	17.9	25.2
20-29	425	403	37	91.8	16.8
Females					
0-19	227	214	12	56.0	20.0
20-29	133	126	11	87.2	11.6

Figure 1. SMRs of SCY in Eldoret compared to general population Kenyan youth, 2010 - 2015





Conclusions

- Mortality among SCY in an urban setting in Kenya is elevated compared to the general population of Kenyan youth
- States should act urgently on their responsibility protect SCY's human rights by scaling up programs to prevent morbidity and death associated with youth street involvement

Conflict of Interest Disclosure: authors have no conflicts of interest

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