UNMASKED: Daring the Lethal Enemy

The effective use of masks as a preventive measure against COVID-19 in urban areas: A case study of Nairobi, Kenya.

Nairobi, Kenya
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World Customs Organization

East and Southern Africa region

24 Member countries

Languages: English, French, Portuguese

13 coastal, 11 land-linked countries

4 Regional Training Centres (RTCs)
Background of Study

i. Nairobi accounts for the majority of the COVID-19 caseload in Kenya

ii. Men have higher rates of morbidity and mortality

iii. Masks are believed to be an effective measure (among others) against the spread of COVID

iv. ... but the appropriate masks have to be worn correctly to enhance effectiveness.
Objectives of Study

i. To investigate the awareness and adherence of the public to guidelines on wearing of masks as a preventive measure against COVID-19 in urban areas.

ii. To establish the considerations and attitudes of the populace towards the use of masks.
Methodology of Study

i. Adherence to guidelines on wearing of masks
- Observational drive-in within societal classes
- Upper class, middle class, informal settlements
- Estimating Proportions from population of 383,266.

i. Considerations and attitudes towards masks
- 1,152 respondents, virtual questionnaires, calls.
- Google Forms Spreadsheet Data Analysis
- Histogram chart presentations
Results of Study

i. Awareness and adherence of the public to wearing of masks as a preventive measure against COVID-19 (Coronavirus) in urban areas.
73% of the masked women wore them correctly compared to 58% men.

Only 58% of population wearing masks with two-thirds of them wore them correctly.
Upper Class: 100% wore masks, 96% correctly.

Upper Class: No significant difference in the proper wearing of masks across genders.
Only two thirds of masked middle class population wore masks correctly.

A majority of the middle-class women (76%) adhered to proper wearing of masks in public compared to 56% of their male counterparts.
Only a third of persons in informal settlements wore masks; less than half (48%) wore them correctly.

Among the masked population in informal settlements, more women (55%) wore their masks properly, compared to 48% of the men.
ii. considerations and attitudes of the populace towards the use of masks.
Distribution of respondents across different age groups.
Word of mouth is the most preferred source of information in the informal settlements. Social media and television were more preferred in the higher classes.
A majority of the respondents from the informal settlements prefer reusable masks unlike the upper class who prefer the disposable masks. A majority of the middle class use both masks.
A majority of the population purchased their masks across all social classes. The upper classes also enjoyed mask freebies compared to the informal settlement respondents.
The price of masks was considered highest among the respondents of informal settlements.
A majority of the respondents from across the social classes highly consider the location of their vendors when purchasing the masks.
Conclusion & Recommendations

i. Adult population largely aware of requirement on & importance of wear masks in public places.

ii. But population has not fully embraced directive to wear masks & wear them correctly.

iii. Adherence to correct wearing of masks higher up social classes & lowest in informal settlements.

iv. Women have greater compliance levels across the social divide compared to men.

v. Need for sustained campaigns on wearing face masks, alongside other measures.

vi. Targeted campaigns towards men to improve on adherence to the proper wearing of masks.

vii. Utilise preferred sources of information for specific classes.

viii. Avail more cost-friendly, appropriate, masks to the vulnerable & informal settlements.

ix. More studies needed on rates & nature of disposal and cleaning of disposable & reusable masks.
Contacts
Larry Liza
Director

World Customs Organization
East & Southern Africa
Regional Office for Capacity Building,
Elgon Road, Upper Hill
P. O. Box 50581- 00200
NAIROB, KENYA.
Tel +254 70 901 1615
Email: rocb@wcoesarocb.org
www.wcoesarocb.org