# Women survivors of female genital mutilation/ cutting: A collaborative process of engaging them as ambassadors of change in Hargeisa, Somaliland

## METADATA

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| **statement** | **text** |
| Publication Consent | Write here how study participants granted consent to publish the study results if applicable. Write 'Not applicable' or leave empty otherwise. |
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| Funding | Provide details on funding, including grant id if applicable. |
| Author contributions | Provides consise author contributions using the CrediT terminology: <https://credit.niso.org/>. For example: MM was responsible for the conceptualization, MSS for data curation, ... |
| Data availability | Write if, how, and where data and other materials that are relevant for the study are accessible. |
| Acknowledgements | Acknowledge contributions or similar that do not warant authorship, e.g. we acknowledge all latex, libreoffice, pandoc, and rmarkdown contributors. |

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## ABSTRACT

Objective: WE THE PEOPLES OF THE UNITED NATIONS DETERMINED to save succeeding generations from the scourge of war, which twice in our lifetime has brought untold sorrow to mankind, and to reaffirm faith in fundamental human rights, in the dignity and worth of the human person, in the equal rights of men and women and of nations large and small, and to establish conditions under which justice and respect for the obligations arising from treaties and other sources of international law can be maintained, and to promote social progress and better standards of life in larger freedom,

Results: AND FOR THESE ENDS to practice tolerance and live together in peace with one another as good neighbours, and to unite our strength to maintain international peace and security, and

to ensure, by the acceptance of principles and the institution of methods, that armed force shall not be used, save in the common interest, and to employ international machinery for the promotion of the economic and social advancement of all peoples,

Conclusion: HAVE RESOLVED TO COMBINE OUR EFFORTS TO ACCOMPLISH THESE AIMS. Accordingly, our respective Governments, through representatives assembled in the city of San Francisco, who have exhibited their full powers found to be in good and due form, have agreed to the present Charter of the United Nations and do hereby establish an international organization to be known as the United Nations.

## ABSTRACT\_ES

### Spanish abstract example heading , first level 3 heading style after the level 2 ABSTRACT ES title

Objetivo: NOSOTROS LOS PUEBLOS DE LAS NACIONES UNIDAS DECIDIDOS a preservar a las generaciones venideras del flagelo de la guerra, que dos veces durante nuestra vida ha infligido a la humanidad sufrimientos indecibles, y a reafirmar la fe en los derechos fundamentales del hombre, en la dignidad y el valor de la persona humana, en la en la dignidad y el valor de la persona humana, en la igualdad de derechos de hombres y mujeres y de las naciones grandes y pequeñas, y a crear las condiciones la justicia y el respeto de las obligaciones derivadas de los tratados y de otras fuentes del derecho y promover el progreso social y elevar el nivel de vida dentro de un concepto más amplio de la libertad

Resultados: Y PARA ESTOS FINES a practicar la tolerancia y a convivir en paz unos con otros comoy a unir nuestras fuerzas para mantener la paz y la seguridad internacionales, para asegurar, mediante la aceptación de principios y la institución de métodos, que no se empleará la fuerza armada la fuerza armada, salvo en interés común, y a emplear los mecanismos internacionales para promover el progreso económico y social de todos los pueblos,

Concluyendo: HEMOS RESUELTO AUNAR NUESTROS ESFUERZOS PARA ALCANZAR ESTOS OBJETIVOS. En consecuencia, nuestros respectivos Gobiernos, por medio de representantes reunidos en la ciudad de San Francisco, que han exhibido sus plenos poderes reconocidos en buena y debida forma, han convenido en la presente Carta de las Naciones Unidas y por la presente establecen una organización internacional que se conocerá como las Naciones Unidas.

# Introduction

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# Methods

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### Study participants

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## Statistics

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Here we reference some figures and tables: Fig \@ref(fig1), Table \@ref(tab1), and Fig \@ref(fig2).

## Ethics

The study was conducted in accordance of relevant guidelines and approved by the responsible ethical review institution. Participants provided informed consent.

# Results

## Characteristics of participants

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|  | **\*\*N (%)\*\*** |
| **#\*\*First section heading\*\*** |  |
| **\*\*Sex\*\***  \* Men**✓**  \* Women✓  A subset of Commonmark markdown, including markdown lists are supported | \* 1656 (50.0)  \* 1656 (50.0) |
| **\*\*Age\*\***  18–30  31–45  46–65  65+ | 500 (15.1)  500 (15.1)  500 (15.1)  200 (6.04) |
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| **#\*\*Socio-economic factors factors\*\*** |  |
| **\*\*Education\*\***  High  Medium  Low | ..  ..  .. |
| **\*\*Financial strain\*\***  No  Yes | ..  .. |
| **\*\*Difficulties to make ends meet\*\***  No  Yes | ..  .. |
| **\*\*Mean income\*\***  **\*\*(sd)\*\*** | ..  .. |
| **#\*\*Culture-related factors\*\*** |  |
| **\*\*Sámi reindeer herding community\*\***  \* None  \* Mountain  \* Forest  \* Concession | ..  ..  ..  .. |
| **\*\*Worked with reindeers (last 12 months)\*\***  No  Yes | ..  .. |
| **#\*\*Behavioural factors\*\*** |  |
| **\*\*Smoking\*\***  No  Yes | ..  .. |
| **#\*\*Psychosomatic factors\*\*** |  |
| **\*\*Allergy\*\***  No  Yes | ..  .. |
| **\*\*BMI\*\***  Normal  Overweight  Obese | ..  ..  .. |

[[table,label: 'tab1',caption: 'Characteristics of weighted study sample in a 1-column table.',colwidths: [60,40], colaligns: [l,c],table]]

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|  | **\*\*N (%)\*\*** | **\*\*Crude PR (95% CI)\*\*** | **\*\*Adjusted PR (95% CI)\*\*** |
| **#\*\*Socio-demographic factors\*\*** |  |  |  |
| **\*\*Sex\*\***  Men  Women |  |  |  |
| **\*\*Age\*\***  18–29  30–44  45–64  65–84 |  |  |  |
| **\*\*Region of residence\*\***  Norrbotten  Västerbotten  Jämtland-Härjedalen  Stockholm  Other |  |  |  |
| **#\*\*Socio-economic factors\*\*** |  |  |  |
| **\*\*Education\*\***  High  Medium  Low |  |  |  |
| **\*\*Financial strain\*\***  No  Yes |  |  |  |
| **\*\*Difficulties to make ends meet\*\***  No  Yes |  |  |  |
| **\*\*Mean income\*\***  Q1 (richest)  Q2  Q3  Q4  Q5 (poorest) |  |  |  |
| **#\*\*Culture-related factors\*\*** |  |  |  |
| **\*\*Sámi reindeer herding community\*\***  None  Mountain  Forest  Concession |  |  |  |
| **\*\*Worked with reindeers\*\***  No  Yes |  |  |  |
| **#\*\*Behavioural factors\*\*** |  |  |  |
| **\*\*Smoking\*\***  No  Yes |  |  |  |
| **#\*\*Psychosomatic factors\*\*** |  |  |  |
| **\*\*Allergy\*\***  No  Yes |  |  |  |
| **\*\*Weight (BMI)\*\***  Normal  Overweight  Obese |  |  |  |
| **\*\*Stress\*\***  No  Yes |  |  |  |

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| --- | --- | --- | --- |
|  | **\*\*N (%)\*\*** | **\*\*Crude PR (95% CI)\*\*** | **\*\*Adjusted PR (95% CI)\*\*** |
| **#\*\*Socio-demographic factors\*\*** |  |  |  |
| **\*\*Sex\*\***  Men  Women |  |  |  |
| **\*\*Age\*\***  18–29  30–44  45–64  65–84 |  |  |  |
| **\*\*Region of residence\*\***  Norrbotten  Västerbotten  Jämtland-Härjedalen  Stockholm  Other |  |  |  |
| **#\*\*Socio-economic factors\*\*** |  |  |  |
| **\*\*Education\*\***  High  Medium  Low |  |  |  |
| **\*\*Financial strain\*\***  No  Yes |  |  |  |
| **\*\*Difficulties to make ends meet\*\***  No  Yes |  |  |  |
| **\*\*Mean income\*\***  Q1 (richest)  Q2  Q3  Q4  Q5 (poorest) |  |  |  |
| **#\*\*Culture-related factors\*\*** |  |  |  |
| **\*\*Sámi reindeer herding community\*\***  None  Mountain  Forest  Concession |  |  |  |
| **\*\*Worked with reindeers\*\***  No  Yes |  |  |  |
| **#\*\*Behavioural factors\*\*** |  |  |  |
| **\*\*Smoking\*\***  No  Yes |  |  |  |
| **#\*\*Psychosomatic factors\*\*** |  |  |  |
| **\*\*Allergy\*\***  No  Yes |  |  |  |
| **\*\*Weight (BMI)\*\***  Normal  Overweight  Obese |  |  |  |
| **\*\*Stress\*\***  No  Yes |  |  |  |

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# Discussion

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## Methodological considerations

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## Conclusion

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# References

1. U.N. General Assembly. The Universal Declaration of Human Rights. U.N. UDHR, Res 217 A Dec 10, 1948. Available: https://www.un.org/en/universal-declaration-human-rights/index.html

2. United Nations. The 2030 Agenda for Sustainable Development. United Nations; 2015. Available: https://sustainabledevelopment.un.org/post2015/transformingourworld/publication

3. Sen A. Development as Freedom. New York: Oxford University Press; 2001.

4. International Conference on Primary Health Care. Declaration of Alma-Ata. WHO Chron. 1978;32: 428–430.

5. Ho J, Mathers C. WHO methods and data sources for global burden of disease estimates 2000-2016. Geneva: WHO; 2018. Available: https://www.who.int/healthinfo/global\_burden\_disease/GlobalDALY\_method\_2000\_2016.pdf

6. Weinstein MC. A QALY is a QALY is a QALY — Or is it? Journal of Health Economics. 1988;7: 289–290. doi:10.1016/0167-6296(88)90030-6

7. International Health Conference. Constitution of the World Health Organization. 1946. Bull World Health Organ. 2002;80: 983–984.

8. World Health Organisation. 1946 Constitution of the World Health Organization. In: Centre for International Law [Internet]. 1946 [cited 1 Dec 2023]. Available: https://cil.nus.edu.sg/databasecil/1946-constitution-of-the-world-health-organization/

9. Kungörelse. Kungörelse 1974:152 Regereingsformen [Instrument of governement]. Kapitel 2 1974. Available: https://lagen.nu/1974:152

10. Statistics Sweden. Statistics Sweden. 2023 [cited 14 Oct 2018]. Available: https://www.scb.se

11. San Sebastián M, Mosquera PA, Gustafsson PE. Whose income is more important: mine, yours or ours? Income inequality and mental health in northern Sweden. European Journal of Public Health. 2018;28: 1056–1061. doi:10.1093/eurpub/cky110

12. Baroudi M. Leaving the door ajar : young migrants’ sexual and reproductive health in Sweden. Umeå universitet. 2022. Available: https://urn.kb.se/resolve?urn=urn:nbn:se:umu:diva-194449