**Additional file 1: Table S1. Sub-group analysis among indirect presenters****.**

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| --- | --- | --- | --- |
| **Demographic and clinical features** | **Indirect presenters to 1 facility** **N=56** | **Indirect presenters to ≥ 2 facilities N=14** | **p-value** a |
|  | **n** | **(%)** | **n** | **(%)** |  |
| Age in years, men (SD), y | 41.2 | (13.2) | 40.5 | (5.8) | 0.74b |
| Sex, No. (%) |  |  |  |  | 0.51 |
|  Male | 15 | (26.8) | 5 | (35.7) |  |
|  Female | 41 | (73.2) | 9 | (64.3) |  |
| Marital status, No. (%) |  |  |  |  | 0.37 |
|  Single | 9 | (16.1) | 0 | 0 |  |
|  Married | 38 | (67.9) | 11 | (78.6) |  |
|  Divorced or Separated | 4 | (7.1) | 2 | (14.3) |  |
|  Widowed | 5 | (8.9) | 1 | (7.1) |  |
| Highest education level, No. (%) |  |  |  |  | 0.08 |
|  Completed secondary or higher | 28 | (50.0) | 6 | (42.9) |  |
|  Completed primary or some secondary | 17 | (30.4) | 8 | (57.1) |  |
|  None or some primary | 11 | (19.6) | 0 | 0 |  |
| Location of primary occupation,No. (%) |  |  |  |  | 0.17 |
|  Indoor | 23 | (41.1) | 3 | (21.4) |  |
|  Outdoor | 33 | (58.9) | 11 | (78.6) |  |
| Employment |  |  |  |  | 0.47 |
|  Unemployed/no regular income | 7 | (12.5) | 1 | (7.1) |  |
|  Low to middle income | 45 | (80.4) | 13 | (92.9) |  |
|  High income | 4 | (7.1) | 0 |  |  |
| Previous eye operation | 1 | (1.8) | 1 | (7.1) | 0.28 |
| History of allergic conjunctivitis | 10 | (17.9) | 5 | (35.7) | 0.15 |
| HIV infection/ART use, No. (%) |  |  |  |  | 0.33 |
|  HIV- | 16 | (28.6) | 1 | (7.1) |  |
|  HIV+/ART- | 11 | (19.6) | 3 | (21.4) |  |
|  HIV+/ART+ | 15 | (26.8) | 4 | (28.5) |  |
|  missing data | 14 | (25.0) | 6 | (42.9) |  |
| CD4 count in cells/mm3, median(IQR)  | 219 | (120-715) | 179 | (69-407) | 0.48c |
| Main symptom, No. (%) |  |  |  |  | 0.80 |
|  Lump | 38 | (67.9) | 10 | (71.4) |  |
|  Pain | 2 | (3.6) | 0 | 0 |  |
|  Redness | 7 | (12.5) | 1 | (7.1) |  |
|  Others | 9 | (16.1) | 3 | (21.4) |  |
| Tumour diameter in mm, median(IQR) | 5.4 | (4.2-10.0) | 8.0 | (5.4-12.0) | 0.06 |
| Histopathology, No. (%) |  |  |  |  | 0.93 |
|  CIN I (mild dysplasia) | 4 | (7.1) | 0 | 0 |  |
|  CIN II (moderate dysplasia) | 7 | (12.5) | 2 | (14.3) |  |
|  CIN III (severe dysplasia) | 10 | (17.9) | 3 | (21.4) |  |
|  Carcinoma-in-situ | 1 | (1.8) | 0 | 0 |  |
|  SCC – poorly differentiated | 1 | (1.8) | 0 | 0 |  |
|  SCC – moderately differentiated | 27 | (48.2) | 8 | (57.1) |  |
|  SCC – well differentiated | 6 | (10.7) | 1 | (7.1) |  |
| Study Centre, No. (%) |  |  |  |  | 0.18 |
|  Kikuyu Eye Unit | 45 | (80.4) | 10 | (71.4) |  |
|  Kenyatta National Hospital | 5 | (8.9) | 4 | (28.6) |  |
|  Sabatia Eye Hospital | 3 | (5.4) | 0 | 0 |  |
|  Kitale District Hospital | 3 | (5.4) | 0 | 0 |  |
| Distance from home to 1st health facility in km, median(IQR) | 20 | (5-53) | 20 | (4-70) | 0.73c |
| Cost of care in KSh, median (IQR) | 3865 | (3800-4150) | 3900 | (3800-4000) | 0.84c |

Abbreviations: ART – antiretroviral therapy; CIN – conjunctival intraepithelial neoplasia; SCC- squamous cell carcinoma

a testing whether the distribution of each feature is the same in indirect presenters to 1 facility and indirect presenters to ≥2 facilities; b t-test with unequal variances; c Mann-Whitney U-test