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| **Supplementary Table 1: Structural equation model, standardised co-efficients and goodness of fit statistics for transcational sex** |
|  | Standardised Coef. | SE | p-value | 95%CI |
| Hunger->Trauma | 0.15 | 0.02 | <0.001 | 0.11-0.19 |
| Trauma->Depression | 0.2 | 0.02 | <0.001 | 0.89-0.98 |
| Gender attitudes->depression | 0.12 | 0.02 | <0.001 | 0.08-0.16 |
| Hunger->Depression | 0.3 | 0.02 | <0.001 | 0.26-0.34 |
| Hunger->gender attitudes | 0.19 | 0.02 | <0.001 | 0.15-0.23 |
| Trauma->Transactional sex | 0.21 | 0.02 | <0.001 | 0.17-0.26 |
| Gender attitudes->Transactional sex | 0.06 | 0.02 | 0.009 | 0.02-0.11 |
| Trauma->alcohol | 0.16 | 0.02 | <0.001 | 0.12-0.20 |
| Depression->alcohol | 0.22 | 0.02 | <0.001 | 0.18-0.26 |
| Controlling behaviours->alcohol | 0.05 | 0.02 | 0.032 | 0.004-0.09 |
| Trauma->controlling behaviours | 0.06 | 0.02 | 0.001 | 0.03-1.00 |
| Gender attitudes->controlling behaviours | 0.62 | 0.01 | <0.001 | 0.59-0.64 |
|  |  |  |  |  |
| Goodness of fit statistics |  |  |  |  |
| Likelihood ratio  | p<0.0001 |  |  |  |
| RMSEA | p=0.03 |  |  |  |
| CFI | 0.991 |  |  |  |
| TLI | 0.985 |  |  |  |

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| **Supplementary Table 2: Structural equation model, standardised co-efficients and goodness of fit statistics for condom use** |
|  | Standardised Coef. | SE | p-value | 95%CI |
| Hunger->Trauma | 0.15 | 0.02 | <0.001 | 0.11-0.19 |
| Trauma->Depression | 0.2 | 0.02 | <0.001 | 0.17-0.24 |
| Gender attitudes->depression | 0.12 | 0.02 | <0.001 | 0.08-0.16 |
| Hunger->Depression | 0.3 | 0.02 | <0.001 | 0.26-0.34 |
| Hunger->gender attitudes | 0.19 | 0.02 | <0.001 | 0.15-0.23 |
| Trauma->condom use | 0.1 | 0.02 | <0.001 | 0.05-0.14 |
| Depression->condom use | -0.14 | 0.02 | <0.001 | -0.18- -0.09 |
| Gender attitudes->condom use | -0.06 | 0.02 | 0.01 | -0.10 - -0.01 |
| Alcohol->condom use | -0.07 | 0.02 | 0.001 | -0.11 - -0.03 |
| Trauma->alcohol | 0.16 | 0.02 | <0.001 | 0.12-0.20 |
| Depression->alcohol | 0.22 | 0.02 | <0.001 | 0.17-0.26 |
| Controlling behaviours->alochol | 0.05 | 0.02 | 0.031 | 0.004-0.09 |
| Trauma->controlling behaviours | 0.06 | 0.02 | 0.001 | 0.03-0.09 |
| Gender attitudes->controlling behaviours | 0.62 | 0.01 | <0.001 | 0.59-0.64 |
|  |  |  |  |  |
| Goodness of fit statistics |  |  |  |  |
| Likelihood ratio  | p<0.0001 |  |  |  |
| RMSEA | p=0.031 |  |  |  |
| CFI | 0.992 |  |  |  |
| TLI | 0.984 |  |  |  |

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| **Supplementary Table 3: Structural equation model, standardised co-efficients and goodness of fit statistics for past year sex partners** |
|  | Standardised Coef. | SE | p-value | 95%CI |
| Hunger->Trauma | 0.15 | 0.02 | <0.001 | 0.11-0.19 |
| Trauma->depression | 0.2 | 0.02 | <0.001 | 0.17-0.24 |
| Gender attitudes->depression | 0.12 | 0.02 | <0.001 | 0.08-0.20 |
| Hunger->depression | 0.3 | 0.02 | <0.001 | 0.26-0.34 |
| Hunger->gender attitudes | 0.19 | 0.02 | <0.001 | 0.15-0.23 |
| Trauma->No. of partners | 0.14 | 0.02 | <0.001 | 0.10-0.19 |
| Gender attitudes->No. of partners | 0.06 | 0.02 | 0.003 | 0.02-0.11 |
| Alcohol->No. of partners | 0.08 | 0.02 | <0.001 | 0.04-0.12 |
| Trauma->Alcohol | 0.16 | 0.02 | <0.001 | 0.12-0.20 |
| Depression->Alcohol | 0.22 | 0.02 | <0.001 | 0.18-0.26 |
| Controlling behaviours->Alcohol | 0.05 | 0.02 | 0.032 | 0.004-0.09 |
| Trauma->controlling behaviours | 0.06 | 0.02 | 0.001 | 0.03-0.09 |
| Gender attitudes->controlling behaviours | 0.62 | 0.01 | <0.001 | 0.59-0.64 |
| Goodness of fit statistics |  |  |  |  |
| Likelihood ratio  | p<0.0001 |   |   |   |
| RMSEA | p=0.031 |  |  |  |
| CFI | 0.991 |  |  |  |
| TLI | 0.985 |  |  |  |