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| **Appendix 1. Breakdown of Baseline Relationship Characteristics** |  |  |   |  |  |  |  |
|   |   | **Female Cases (N=90)** | **Female Controls (N=47)** |  | **Male Cases (N=90)** | **Male Controls (N=46)** |
|   |   | **Mean**  | **(SD)** | **Mean**  | **(SD)** |  | **Mean**  | **(SD)** | **Mean**  | **(SD)** |
| **Commitment** |  |  |  |  |  |  |  |  |  |
|  | 1. My relationship with my partner is permanent | 4.31 | (0.77) | 4.64 | (0.64) |  | 4.77 | (0.56) | 4.85 | (0.51) |
|  | 2. I am certain of my love for my partner | 4.48 | (0.60) | 4.70 | (0.46) |  | 4.83 | (0.46) | 4.89 | (0.31) |
|  | 3. I have decided that I love my partner | 4.51 | (0.52) | 4.70 | (0.46) |  | 4.86 | (0.35) | 4.87 | (0.34) |
|  | 4. I am committed to my relationship | 4.53 | (0.50) | 4.70 | (0.46) |  | 4.83 | (0.43) | 4.89 | (0.31) |
|  | 5. I believe my relationship is stable | 4.37 | (0.73) | 4.64 | (0.61) |  | 4.80 | (0.50) | 4.87 | (0.34) |
|  | 6. I expect to love my partner for the rest of my life | 4.39 | (0.67) | 4.60 | (0.65) |  | 4.84 | (0.45) | 4.87 | (0.50) |
|  | 7. I cannot imagine ending my relationship | 4.03 | (0.88) | 4.53 | (0.65) |  | 4.56 | (0.94) | 4.87 | (0.50) |
| **Intimacy** |  |  |  |  |  |  |  |  |  |
|  | 1. My partner and I have a mutual understanding of each other | 4.18 | (0.98) | 4.60 | (0.65) |  | 4.47 | (1.06) | 4.83 | (0.53) |
|  | 2. My partner gives me considerable emotional support | 4.20 | (0.99) | 4.60 | (0.61) |  | 4.62 | (0.84) | 4.72 | (0.69) |
|  | 3. My partner is able to count on me | 4.28 | (0.67) | 4.47 | (0.50) |  | 4.81 | (0.54) | 4.87 | (0.34) |
|  | 4. I am emotionally close to my partner | 4.17 | (0.89) | 4.53 | (0.80) |  | 4.88 | (0.33) | 4.87 | (0.34) |
|  | 5. I give my partner considerable emotional support | 4.38 | (0.55) | 4.60 | (0.50) |  | 4.87 | (0.34) | 4.87 | (0.34) |
| **Trust** |  |  |  |  |  |  |  |  |  |
|  | 1. My partner is interested in his/her own welfare\* | 3.51 | (1.28) | 3.89 | (1.20) |  | 3.23 | (1.60) | 4.24 | (1.39) |
|  | 2. There are times when my partner cannot be trusted\* | 3.03 | (1.23) | 3.66 | (1.03) |  | 3.49 | (1.57) | 4.80 | (0.54) |
|  | 3. My partner is honest with me | 3.53 | (1.12) | 3.94 | (0.99) |  | 3.81 | (1.52) | 4.72 | (0.78) |
|  | 4. I can trust my partner completely | 3.86 | (1.10) | 4.34 | (0.81) |  | 4.20 | (1.34) | 4.80 | (0.65) |
|  | 5. My partner is sincere in his/her promises | 3.77 | (1.13) | 4.32 | (0.81) |  | 4.40 | (1.16) | 4.83 | (0.64) |
|  | 6. My partner does not consider me enough\* | 3.67 | (1.28) | 4.11 | (1.20) |  | 2.76 | (1.78) | 2.11 | (1.75) |
|  | 7. My partner treats me fairly | 3.88 | (1.22) | 4.45 | (0.97) |  | 4.33 | (1.18) | 4.80 | (0.75) |
|  | 8. I can count on my partner to help me | 4.23 | (0.96) | 4.62 | (0.61) |  | 4.50 | (1.01) | 4.80 | (0.65) |
| **Satisfaction** |  |  |  |  |  |  |  |  |  |
|  | 1. How happy are you in your relationship? | 3.74 | (0.57) | 3.94 | (0.25) |  | 3.79 | (0.68) | 3.98 | (0.15) |
|  | 2. How warm and comfortable is your relationship? | 2.97 | (0.76) | 3.21 | (0.62) |  | 3.20 | (0.75) | 3.78 | (0.42) |
|  | 3. How rewarding is your relationship? | 2.90 | (0.64) | 3.09 | (0.54) |  | 3.00 | (0.62) | 3.72 | (0.46) |
|  | 4. How satisfied are you with your relationship? | 2.93 | (0.72) | 3.09 | (0.54) |  | 3.13 | (0.60) | 3.78 | (0.42) |
| **Communication** |  |  |  |  |  |  |  |  |  |
|  | 1. When issues arise, we try to discuss them | 3.02 | (0.42) | 3.23 | (0.48) |  | 3.22 | (0.73) | 3.78 | (0.42) |
|  | 2. When issues arise, we share our feelings | 3.03 | (0.41) | 3.28 | (0.50) |  | 3.29 | (0.71) | 3.76 | (0.43) |
|  | 3. When issues arise, we talk about solutions and compromises | 3.09 | (0.44) | 3.30 | (0.51) |  | 3.42 | (0.62) | 3.76 | (0.57) |
| **HIV Communication** |  |  |  |  |  |  |  |  |  |
|  | 1. Had a conversation about HIV prevention? | 0.67 | (0.47) | 0.77 | (0.43) |  | 0.72 | (0.45) | 0.83 | (0.38) |
|  | 2. Initiated a conversation about condom use? | 0.50 | (0.50) | 0.49 | (0.51) |  | 0.68 | (0.47) | 0.70 | (0.47) |
|  | 3. Had a partner who initiated a conversation about condom use? | 0.43 | (0.50) | 0.45 | (0.50) |  | 0.59 | (0.49) | 0.70 | (0.47) |
|  | 4. Discussed your outside sexual partners? | 0.96 | (0.21) | 1.00 | (0.00) |  | 0.80 | (0.40) | 0.98 | (0.15) |
|  | 5. Discussed your partner's outside sexual partners? | 0.96 | (0.21) | 1.00 | (0.00) |  | 0.83 | (0.37) | 0.93 | (0.25) |
|  | 6. Requested sex from your partner? | 0.72 | (0.45) | 0.81 | (0.40) |  | 0.96 | (0.21) | 1.00 | (0.00) |
|  | 7. Had a partner request sex from you? | 0.99 | (0.11) | 1.00 | (0.00) |  | 0.86 | (0.35) | 0.96 | (0.21) |
|  | 8. Discussed male circumcision with your partner? | 0.40 | (0.49) | 0.43 | (0.50) |  | 0.58 | (0.50) | 0.63 | (0.49) |
|  | 9. Discussed family planning with your partner? | 0.80 | (0.40) | 0.91 | (0.28) |  | 0.83 | (0.37) | 0.93 | (0.25) |
|  | 10. Had your partner reminded you to take ART? | 0.53 | (0.51) | - | - |  | 0.67 | (0.50) | - | - |
|  | 11. Had your partner urge you to attend a clinic for HIV-related problem? | 0.69 | (0.47) | 0.98 | (0.15) |  | 0.83 | (0.37) | 0.98 | (0.15) |
|  | 12. Discussed PMTCT with your partner? | 0.63 | (0.48) | 0.36 | (0.49) |  | 0.30 | (0.46) | 0.13 | (0.34) |
|  | 13. Discussed what HIV means for your health with your partner? | 0.28 | (0.45) | 0.38 | (0.49) |  | 0.44 | (0.50) | 0.61 | (0.49) |
| **Relationship Power, mean (SD)** |  |  |  |  |  |  |  |  |  |
|  | 1. My partner will get violent if I ask to use a condom | 3.09 | (0.59) | 2.51 | (0.88) |  | 3.38 | (1.04) | 2.52 | (1.35) |
|  | 2. My partner will get angry if I ask to use a condom | 3.12 | (0.58) | 2.57 | (0.83) |  | 3.40 | (1.01) | 2.48 | (1.31) |
|  | 3. We generally do what my partner wishes | 2.74 | (0.82) | 2.81 | (0.74) |  | 2.62 | (1.26) | 2.96 | (0.99) |
|  | 4. My partner controls what I wear | 2.22 | (0.63) | 2.17 | (0.60) |  | 1.82 | (1.09) | 1.48 | (0.86) |
|  | 5. When we are together, I am usually quiet | 2.88 | (0.79) | 3.28 | (0.71) |  | 2.88 | (1.16) | 3.28 | (0.93) |
|  | 6. My partner makes most of the important decisions | 2.68 | (0.80) | 3.06 | (0.79) |  | 3.03 | (1.17) | 3.50 | (0.78) |
|  | 7. My partner controls who I spend time with | 2.43 | (0.69) | 2.57 | (0.68) |  | 2.14 | (1.18) | 1.93 | (1.14) |
|  | 8. My partner will think I have other partners if I ask to use a condom | 3.32 | (0.70) | 3.21 | (0.86) |  | 2.84 | (1.34) | 2.76 | (1.34) |
|  | 9. I feel trapped in my relationship | 2.99 | (0.88) | 3.38 | (0.82) |  | 2.44 | (1.17) | 1.96 | (1.33) |
|  | 10. My partner does what he/she wants | 2.79 | (0.85) | 2.98 | (0.87) |  | 2.52 | (1.17) | 3.20 | (1.09) |
|  | 11. My partner is not as committed to me as I am to him/her | 2.69 | (0.87) | 2.98 | (0.90) |  | 1.97 | (1.14) | 2.15 | (1.23) |
|  | 12. My partner will usually get his/her way | 2.92 | (0.71) | 3.11 | (0.60) |  | 2.73 | (1.22) | 3.30 | (1.05) |
|  | 13. My partner gets more from our relationship that I do | 2.91 | (0.70) | 3.11 | (0.60) |  | 2.70 | (1.18) | 3.35 | (1.04) |
|  | 14. My partner always wants to know where I am | 2.31 | (0.68) | 2.26 | (0.64) |  | 1.62 | (0.92) | 1.61 | (0.98) |
|   | 15. My partner may be having sex with someone else | 2.42 | (0.78) | 2.96 | (0.66) |   | 2.99 | (1.19) | 3.50 | (1.01) |
| **Commitment:** Questions evaluated on a 5-point Likert scale where 5 demonstrated commitment to maintaining partnership**Intimacy:** Questions evaluated on a 5-point Likert scale where 5 indicated strong feelings of closeness and connectedness to their partner **Trust:** Questions evaluated on a 5-point Likert scale where 5 demonstrated high levels of trust in their partner. Questions with a \* were evaluated on a 5-point Likert scale where 5 demonstrated low levels of trust in their partner; these scores were then reverse coded so that 5 indicated high levels of trust in their partner.**Satisfaction:** Questions evaluated on a 5-point Likert scale where 5 showed strong levels of satisfaction with their relationship**Communication:** Questions evaluated on a 4-point Likert scale where 4 indicated a greater likelihood of using positive communication patterns with their partner**HIV Communication:** Questions evaluated on a binary 0-1 scale where 1 showed communication about HIV topics with their partner**Power:** Questions evaluated on a 4-point Likert scale where 4 demonstrated high power in their relationship |

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| **Appendix 2. Individual-level Relationship Characteristics before and after CHTC** |  |  |  |  |
|   | **F+ females(N=90)** |  | **F- females (N=47)** |  | **F+ males(N=90)** |  | **F- males(N=46)\*** |  | **Difference between F+ couples and F- couples** | **Couple differences pre/post CHTC(N=273)** |
| **Pre CHTC** | Score | (SD) |  | Score | (SD) |  | Score | (SD) |  | Score | (SD) |  | p-value | p-value |
| Commitment (Max=5) | 4.4 | (0.6) |  | 4.6 | (0.5) |  | 4.8 | (0.4) |  | 4.9 | (0.4) |  | <0.001 | - |
| Intimacy (Max=5) | 4.2 | (0.7) |  | 4.6 | (0.5) |  | 4.7 | (0.5) |  | 4.8 | (0.3) |  | 0.01 | - |
| Trust (Max=40) | 29.5 | (8.0) |  | 33.3 | (6.1) |  | 30.7 | (8.0) |  | 35.1 | (4.1) |  | < 0.001 | - |
| Satisfaction (Max=20) | 12.5 | (2.5) |  | 13.3 | (1.8) |  | 13.1 | (2.2) |  | 15.3 | (1.1) |  | < 0.001 | - |
| Communication (Max=12) | 9.1 | (1.1) |  | 9.8 | (1.4) |  | 9.9 | (1.6) |  | 11.3 | (1.2) |  | < 0.001 | - |
| HIV Communication (Max=1) | 0.67 | (0.2) |  | 0.71 | (0.2) |  | 0.70 | (0.2) |  | 0.78 | (0.1) |  | 0.06 | - |
| Relationship power (Max=4) | 2.8 | (0.5) |  | 2.9 | (0.5) |  | 2.6 | (0.7) |  | 2.7 | (0.6) |  | 0.3 | - |
| **Post CHTC** | Score | (SD) |  | Score | (SD) |  | Score | (SD) |  | Score | (SD) |  | p-value | p-value |
| Commitment (Max=5) | 4.3 | (0.8) |  | 4.8 | (0.6) |  | 4.6 | (0.7) |  | 4.8 | (0.4) |  | < 0.001 | 0.9 |
| Intimacy (Max=5) | 4.4 | (0.8) |  | 4.7 | (0.4) |  | 4.6 | (0.7) |  | 4.8 | (0.4) |  | 0.002 | 0.5 |
| Trust (Max=40) | 31.5 | (7.5) |  | 33.8 | (5.0) |  | 32.0 | (7.2) |  | 34.7 | (5.1) |  | 0.02 | 0.006 |
| Satisfaction (Max=20) | 12.7 | (2.6) |  | 13.9 | (1.5) |  | 13.3 | (2.2) |  | 14.3 | (2.2) |  | < 0.001 | 0.8 |
| Communication (Max=12) | 9.3 | (1.6) |  | 10.5 | (1.4) |  | 10.1 | (1.5) |  | 11.1 | (1.3) |  | < 0.001 | 0.03 |
| HIV Communication (Max=1) | 0.9 | (0.2) |  | 0.8 | (0.1) |  | 0.9 | (0.2) |  | 0.9 | (0.1) |  | <0.001 | < 0.001 |
| Relationship power (Max=4) | 3.0 | (0.5) |   | 2.8 | (0.5) |   | 2.9 | (0.6) |   | 2.7 | (0.6) |   | 0.04 | < 0.001 |
| SD=standard deviation |
| Differences between F+ women and men, and F- women and men, were examined using t-tests and Wilcoxon rank sum tests as appropriate. Paired t-tests and Wilcoxon signed rank tests were used to examine individual-level changes before and after CHTC.  |