APPENDIX I: MARGINAL AND CUMULATIVE EFFECTS

### Sexual Behavior

<table>
<thead>
<tr>
<th>Sexual Behavior</th>
<th>%Unexposed</th>
<th>%OL only</th>
<th>P-Value</th>
<th>%Safaids only</th>
<th>P-Value</th>
<th>% Both</th>
<th>P-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knows multiple sexual partners increase HIV Risk k5r</td>
<td>0.8964</td>
<td>0.9246</td>
<td>0.1930</td>
<td>0.8818</td>
<td>0.8421</td>
<td>0.8609</td>
<td>0.3442</td>
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<tr>
<td>People Discuss HIV Risk &amp; Multiple Partners</td>
<td>0.5177</td>
<td>0.5643</td>
<td>0.1574</td>
<td>0.6081</td>
<td>0.4993</td>
<td>0.7128</td>
<td>0.0031</td>
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<tr>
<td>Most married men faithful to wives</td>
<td>0.3567</td>
<td>0.3857</td>
<td>0.5410</td>
<td>0.2476</td>
<td>0.2166</td>
<td>0.2655</td>
<td>0.1214</td>
</tr>
<tr>
<td>Leaders Discourage Multiple Partners</td>
<td>0.3624</td>
<td>0.4178</td>
<td>0.1270</td>
<td>0.4690</td>
<td>0.4065</td>
<td>0.4335</td>
<td>0.4598</td>
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<tr>
<td>Men with many women are real men</td>
<td>0.0811</td>
<td>0.0654</td>
<td>0.3985</td>
<td>0.0696</td>
<td>0.7717</td>
<td>0.1165</td>
<td>0.2618</td>
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<tr>
<td>Can resist being unfaithful to main partner</td>
<td>0.7139</td>
<td>0.7431</td>
<td>0.1504</td>
<td>0.8293</td>
<td>0.0162</td>
<td>0.7789</td>
<td>0.0988</td>
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<tr>
<td>Does not need someone to fill gap</td>
<td>0.5944</td>
<td>0.6408</td>
<td>0.1376</td>
<td>0.8122</td>
<td>0.0001</td>
<td>0.7614</td>
<td>0.0027</td>
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<tr>
<td>Multiple Partners (Last 12 Months) b2</td>
<td>0.1624</td>
<td>0.1647</td>
<td>0.9556</td>
<td>0.3234</td>
<td>0.0255</td>
<td>0.2375</td>
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<tr>
<td>Multiple Partners (Last Month)b4</td>
<td>0.0663</td>
<td>0.0679</td>
<td>0.9449</td>
<td>0.1619</td>
<td>0.0632</td>
<td>0.0534</td>
<td>0.6273</td>
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<tr>
<td>Self-reported having concurrent partners in the past 12 months</td>
<td>0.1171</td>
<td>0.0956</td>
<td>0.3924</td>
<td>0.2006</td>
<td>0.1840</td>
<td>0.0515</td>
<td>0.0118</td>
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<tr>
<td>Currently have more than one sexual partner (past 3 months) b5</td>
<td>0.0722</td>
<td>0.0859</td>
<td>0.5908</td>
<td>0.1763</td>
<td>0.0572</td>
<td>0.0687</td>
<td>0.8607</td>
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### Communication

<table>
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<tr>
<th>Communication</th>
<th>%Unexposed</th>
<th>%OL only</th>
<th>P-Value</th>
<th>%Safaids only</th>
<th>P-Value</th>
<th>% Both</th>
<th>P-Value</th>
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<tbody>
<tr>
<td>Discussed HIV/AIDS with Spouse b25</td>
<td>0.8370</td>
<td>0.8064</td>
<td>0.4711</td>
<td>0.8218</td>
<td>0.8275</td>
<td>0.7962</td>
<td>0.6264</td>
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<tr>
<td>Discussed HIV/AIDS with Kids b26</td>
<td>0.5154</td>
<td>0.5731</td>
<td>0.0916</td>
<td>0.6736</td>
<td>0.0104</td>
<td>0.5043</td>
<td>0.8970</td>
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<tr>
<td>Discussed HIV/AIDS with Friends b27</td>
<td>0.6196</td>
<td>0.6938</td>
<td>0.1384</td>
<td>0.7206</td>
<td>0.4222</td>
<td>0.6893</td>
<td>0.1336</td>
</tr>
<tr>
<td>Discussed HIV/AIDS with Spouse, Kids, and/or Friends</td>
<td>0.7161</td>
<td>0.7642</td>
<td>0.2646</td>
<td>0.7917</td>
<td>0.3826</td>
<td>0.7661</td>
<td>0.2745</td>
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<tr>
<td>Percentage who are dissatisfied when having sex with spouse/regular</td>
<td>0.1649</td>
<td>0.1421</td>
<td>0.3762</td>
<td>0.0387</td>
<td>0.0187</td>
<td>0.1768</td>
<td>0.7831</td>
</tr>
<tr>
<td>Percentage who have talked with spouse/regular cohabitating partner</td>
<td>0.1266</td>
<td>0.1070</td>
<td>0.6775</td>
<td>0.0187</td>
<td>0.0791</td>
<td>0.1271</td>
<td>0.9935</td>
</tr>
<tr>
<td>Sex life improves with communication about HIV</td>
<td>0.8803</td>
<td>0.8792</td>
<td>0.9679</td>
<td>0.9779</td>
<td>0.0080</td>
<td>0.8572</td>
<td>0.4563</td>
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<tr>
<td>Condom Use</td>
<td>%Unexposed</td>
<td>%OL only</td>
<td>P-Value</td>
<td>%Safaids only</td>
<td>P-Value</td>
<td>% Both</td>
<td>P-Value</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
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<tr>
<td>While in ART, PLHIV can transmit HIV k4r</td>
<td>0.9154</td>
<td>0.8758</td>
<td>0.1202</td>
<td>0.9757</td>
<td>0.0242</td>
<td>0.8923</td>
<td>0.2942</td>
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<tr>
<td>Knows PLHIV on ART can transmit HIV k3r</td>
<td>0.8598</td>
<td>0.8881</td>
<td>0.2474</td>
<td>0.9930</td>
<td>0.0000</td>
<td>0.8359</td>
<td>0.6725</td>
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<tr>
<td>Percentage who disagree that if one spouse is HIV+ the other certainly is k1r</td>
<td>0.4879</td>
<td>0.4367</td>
<td>0.3838</td>
<td>0.5122</td>
<td>0.7741</td>
<td>0.5223</td>
<td>0.5364</td>
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<tr>
<td>Knows that STIs increase HIV infection k2r</td>
<td>0.8716</td>
<td>0.8359</td>
<td>0.1137</td>
<td>0.8818</td>
<td>0.8495</td>
<td>0.7903</td>
<td>0.1993</td>
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<tr>
<td>Condom Use in Marriage Accepted</td>
<td>0.5913</td>
<td>0.6826</td>
<td>0.0266</td>
<td>0.6346</td>
<td>0.5936</td>
<td>0.7518</td>
<td>0.0139</td>
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<tr>
<td>Women Can Ask Regular Partner to Use Condom</td>
<td>0.7272</td>
<td>0.7072</td>
<td>0.4865</td>
<td>0.7986</td>
<td>0.3630</td>
<td>0.7038</td>
<td>0.7396</td>
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<tr>
<td>Women Can Ask Casual Partner to Use Condom</td>
<td>0.7400</td>
<td>0.7521</td>
<td>0.7735</td>
<td>0.8089</td>
<td>0.2207</td>
<td>0.6815</td>
<td>0.5330</td>
</tr>
<tr>
<td>Condom use at last sex among those ever having sex b7</td>
<td>0.5152</td>
<td>0.5574</td>
<td>0.1300</td>
<td>0.7245</td>
<td>0.0262</td>
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<td>0.2872</td>
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<tr>
<td>Condom at last sex, if regular partner</td>
<td>0.4957</td>
<td>0.4835</td>
<td>0.7188</td>
<td>0.4536</td>
<td>0.7536</td>
<td>0.6227</td>
<td>0.1057</td>
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<tr>
<td>Condom at last sex, if casual partner</td>
<td>0.9109</td>
<td>0.8789</td>
<td>0.3076</td>
<td>0.8702</td>
<td>0.5434</td>
<td>0.8222</td>
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<td>Condom at last sex among those with multiple partners</td>
<td>0.7234</td>
<td>0.8027</td>
<td>0.0893</td>
<td>0.7669</td>
<td>0.6176</td>
<td>0.6994</td>
<td>0.7102</td>
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<tr>
<td>Condom at last sex with a casual partner, among those with multiple partners</td>
<td>0.9258</td>
<td>0.8912</td>
<td>0.1588</td>
<td>0.8924</td>
<td>0.4288</td>
<td>0.9818</td>
<td>0.0433</td>
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<tr>
<td>Always/usually used a condom with last sexual partner</td>
<td>0.7107</td>
<td>0.6718</td>
<td>0.0631</td>
<td>0.5916</td>
<td>0.1871</td>
<td>0.7728</td>
<td>0.1416</td>
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<tr>
<td>condom use at last sex among those have sex in the last 12 months b19</td>
<td>0.7118</td>
<td>0.6816</td>
<td>0.2150</td>
<td>0.5996</td>
<td>0.2133</td>
<td>0.8013</td>
<td>0.1547</td>
</tr>
<tr>
<td>Testing</td>
<td>%Unexposed</td>
<td>%OL only</td>
<td>P-Value</td>
<td>%Safaids only</td>
<td>P-Value</td>
<td>% Both</td>
<td>P-Value</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
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<tr>
<td>Pregnant woman should test for HIV k7r</td>
<td>0.9597</td>
<td>0.9545</td>
<td>0.6385</td>
<td>0.9818</td>
<td>0.1578</td>
<td>0.9050</td>
<td>0.0355</td>
</tr>
<tr>
<td>Knows TB can be cured if HIV+ k6r</td>
<td>0.7352</td>
<td>0.6801</td>
<td>0.2108</td>
<td>0.8378</td>
<td>0.1764</td>
<td>0.6048</td>
<td>0.1212</td>
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<tr>
<td>Knows that the risk of contracting HIV decreases for a circumcised man k10r</td>
<td>0.7042</td>
<td>0.6753</td>
<td>0.3972</td>
<td>0.9426</td>
<td>0.0001</td>
<td>0.7019</td>
<td>0.9657</td>
</tr>
<tr>
<td>a10b Agrees that only way to know you are HIV positive is through blood test</td>
<td>0.9434</td>
<td>0.9619</td>
<td>0.0572</td>
<td>0.9552</td>
<td>0.4266</td>
<td>0.9246</td>
<td>0.4430</td>
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<tr>
<td>Important to Know HIV Status</td>
<td>0.9666</td>
<td>0.9818</td>
<td>0.1588</td>
<td>0.9978</td>
<td>0.0039</td>
<td>0.9186</td>
<td>0.0101</td>
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<tr>
<td>Worried about Becoming Infected</td>
<td>0.6075</td>
<td>0.5936</td>
<td>0.6156</td>
<td>0.5482</td>
<td>0.3601</td>
<td>0.6417</td>
<td>0.4738</td>
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<tr>
<td>Likely to be Infected Now</td>
<td>0.2017</td>
<td>0.3034</td>
<td>0.1061</td>
<td>0.3580</td>
<td>0.0524</td>
<td>0.3820</td>
<td>0.1133</td>
</tr>
<tr>
<td>Agrees that husband/cohabitating partner has another wife b9</td>
<td>0.1001</td>
<td>0.0768</td>
<td>0.3905</td>
<td>0.1145</td>
<td>0.7839</td>
<td>0.0574</td>
<td>0.3326</td>
</tr>
<tr>
<td>Agrees that husband/cohabitating partner has another sex partner who is not a</td>
<td>0.1996</td>
<td>0.1978</td>
<td>0.9630</td>
<td>0.0211</td>
<td>0.0178</td>
<td>0.0833</td>
<td>0.2202</td>
</tr>
<tr>
<td>Thinks that last partner had other sexual partners</td>
<td>0.1668</td>
<td>0.1834</td>
<td>0.4080</td>
<td>0.5500</td>
<td>0.0001</td>
<td>0.3748</td>
<td>0.0009</td>
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<tr>
<td>Thinks that next to last partner had other sexual partners</td>
<td>0.4921</td>
<td>0.3349</td>
<td>0.1018</td>
<td>0.1271</td>
<td>0.0052</td>
<td>0.4146</td>
<td>0.6035</td>
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<tr>
<td>Thinks that third to last partner had other sexual partners</td>
<td>0.2632</td>
<td>0.4032</td>
<td>0.0456</td>
<td>0.1891</td>
<td>0.5494</td>
<td>0.8595</td>
<td>0.0000</td>
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<tr>
<td>Leaders Encourage HIV Testing</td>
<td>0.4968</td>
<td>0.5367</td>
<td>0.2838</td>
<td>0.5367</td>
<td>0.7072</td>
<td>0.6179</td>
<td>0.0327</td>
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<tr>
<td>Knows where to get HIV/AIDS info. k11r</td>
<td>0.8999</td>
<td>0.8967</td>
<td>0.8430</td>
<td>0.9833</td>
<td>0.0049</td>
<td>0.9082</td>
<td>0.8011</td>
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<tr>
<td>a7 Disagrees that HIV Means Life is Over</td>
<td>0.7870</td>
<td>0.8355</td>
<td>0.0170</td>
<td>0.8113</td>
<td>0.5672</td>
<td>0.7351</td>
<td>0.3905</td>
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<tr>
<td>Ever Tested for HIV b24</td>
<td>0.7227</td>
<td>0.7251</td>
<td>0.9567</td>
<td>0.7951</td>
<td>0.1185</td>
<td>0.6892</td>
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<tr>
<td>HIV Test in the Last 12 Months b24b</td>
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<td>0.5455</td>
<td>0.3675</td>
<td>0.4116</td>
<td>0.0138</td>
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</table>

<table>
<thead>
<tr>
<th>Other HIV Risk Factors</th>
<th>%Unexposed</th>
<th>%OL only</th>
<th>P-Value</th>
<th>%Safaids only</th>
<th>P-Value</th>
<th>% Both</th>
<th>P-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaders Discourage Multiple Partners</td>
<td>0.2971</td>
<td>0.3602</td>
<td>0.0485</td>
<td>0.4778</td>
<td>0.0019</td>
<td>0.4757</td>
<td>0.0056</td>
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<tr>
<td>10+ year age difference between respondent and last sexual partner</td>
<td>0.0703</td>
<td>0.1117</td>
<td>0.0884</td>
<td>0.0430</td>
<td>0.2400</td>
<td>0.0868</td>
<td>0.6506</td>
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<tr>
<td>10+ year age difference between respondent and next to last sexual partner</td>
<td>0.0724</td>
<td>0.0858</td>
<td>0.4341</td>
<td>0.0852</td>
<td>0.6329</td>
<td>0.0560</td>
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<tr>
<td>10+ year age difference between respondent and third to last sexual partner</td>
<td>0.0435</td>
<td>0.0419</td>
<td>0.9311</td>
<td>0.0623</td>
<td>0.5143</td>
<td>0.0609</td>
<td>0.4577</td>
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<tr>
<td>HIV Treatment</td>
<td>%Unexposed</td>
<td>%OL only</td>
<td>P-Value</td>
<td>%Safaids only</td>
<td>P-Value</td>
<td>% Both</td>
<td>P-Value</td>
</tr>
<tr>
<td>---------------</td>
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<tr>
<td>Knows ARVs prevent MCT during pregnancy k8ar</td>
<td>0.8106</td>
<td>0.7541</td>
<td>0.1315</td>
<td>0.8667</td>
<td>0.2966</td>
<td>0.7986</td>
<td>0.7561</td>
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<tr>
<td>Knows ARVs prevent MCT during childbirth k8br</td>
<td>0.7727</td>
<td>0.7461</td>
<td>0.3671</td>
<td>0.8310</td>
<td>0.1924</td>
<td>0.7558</td>
<td>0.6967</td>
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<tr>
<td>Knows ARVs prevent MCT during breastfeeding k8cr</td>
<td>0.6132</td>
<td>0.6866</td>
<td>0.0850</td>
<td>0.7517</td>
<td>0.1688</td>
<td>0.5838</td>
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<tr>
<td>Knows how often people should take ARVs k9r</td>
<td>0.9011</td>
<td>0.8543</td>
<td>0.0449</td>
<td>0.7551</td>
<td>0.0041</td>
<td>0.8552</td>
<td>0.1008</td>
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<td>Leaders Encourage HIV Treatment</td>
<td>0.5926</td>
<td>0.6519</td>
<td>0.1474</td>
<td>0.7951</td>
<td>0.0651</td>
<td>0.6101</td>
<td>0.7800</td>
</tr>
<tr>
<td>Has ever taken ARVs b28</td>
<td>0.0665</td>
<td>0.0340</td>
<td>0.0258</td>
<td>0.0754</td>
<td>0.0754</td>
<td>0.0754</td>
<td>0.0754</td>
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<tr>
<td>Received support from an ARV treatment buddy or CBV, among</td>
<td>0.0732</td>
<td>0.3441</td>
<td>0.0001</td>
<td>0.2059</td>
<td>0.0784</td>
<td>0.4754</td>
<td>0.0002</td>
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<tr>
<td>Does not struggle to take your ARV drugs as advised by the</td>
<td>0.0597</td>
<td>0.0301</td>
<td>0.2026</td>
<td>0.1003</td>
<td>0.4047</td>
<td>0.0050</td>
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<tr>
<td>Participated in a PMTCT program b32</td>
<td>0.2870</td>
<td>0.3521</td>
<td>0.2771</td>
<td>0.9813</td>
<td>0.0000</td>
<td>0.3488</td>
<td>0.3394</td>
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<table>
<thead>
<tr>
<th>HIV Stigma</th>
<th>%Unexposed</th>
<th>%OL only</th>
<th>P-Value</th>
<th>%Safaids only</th>
<th>P-Value</th>
<th>% Both</th>
<th>P-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a9 Disagrees that HIV is a punishment for sinning</td>
<td>0.5360</td>
<td>0.6329</td>
<td>0.0411</td>
<td>0.5454</td>
<td>0.8994</td>
<td>0.5764</td>
<td>0.5658</td>
</tr>
<tr>
<td>a8 Disagrees that revealing HIV status doesn't help</td>
<td>0.7224</td>
<td>0.7768</td>
<td>0.1309</td>
<td>0.7218</td>
<td>0.9948</td>
<td>0.7038</td>
<td>0.7278</td>
</tr>
<tr>
<td>Willing to Care for Someone on ART</td>
<td>0.9531</td>
<td>0.9600</td>
<td>0.5373</td>
<td>0.9823</td>
<td>0.0901</td>
<td>0.9617</td>
<td>0.5473</td>
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<tr>
<td>People in the community joint together to help PLHIV</td>
<td>0.5293</td>
<td>0.4948</td>
<td>0.4906</td>
<td>0.5480</td>
<td>0.8597</td>
<td>0.4608</td>
<td>0.2668</td>
</tr>
<tr>
<td>Keep Secret if Family Member has HIV</td>
<td>0.7412</td>
<td>0.6632</td>
<td>0.0082</td>
<td>0.7814</td>
<td>0.1379</td>
<td>0.7637</td>
<td>0.7045</td>
</tr>
<tr>
<td>Cared for someone on ART</td>
<td>0.1703</td>
<td>0.1546</td>
<td>0.4332</td>
<td>0.2244</td>
<td>0.2334</td>
<td>0.2547</td>
<td>0.1275</td>
</tr>
<tr>
<td>Agrees that wife inheritance is practiced in the community</td>
<td>0.0849</td>
<td>0.1244</td>
<td>0.2278</td>
<td>0.0801</td>
<td>0.9064</td>
<td>0.0838</td>
<td>0.9663</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Gender-Based violence</th>
<th>%Unexposed</th>
<th>%OL only</th>
<th>P-Value</th>
<th>%Safaids only</th>
<th>P-Value</th>
<th>% Both</th>
<th>P-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Man has right to have sex for gifts</td>
<td>0.3123</td>
<td>0.2636</td>
<td>0.0313</td>
<td>0.2488</td>
<td>0.5189</td>
<td>0.3307</td>
<td>0.5959</td>
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<tr>
<td>Leaders speak out against GBV</td>
<td>0.5542</td>
<td>0.5692</td>
<td>0.6705</td>
<td>0.5562</td>
<td>0.9891</td>
<td>0.6118</td>
<td>0.3228</td>
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<tr>
<td>Forced sex in the last 12 months</td>
<td>0.0275</td>
<td>0.0491</td>
<td>0.0528</td>
<td>0.0210</td>
<td>0.5937</td>
<td>0.0160</td>
<td>0.2206</td>
</tr>
<tr>
<td>Physical GBV in the last 12 months</td>
<td>0.0935</td>
<td>0.1191</td>
<td>0.1446</td>
<td>0.1158</td>
<td>0.5687</td>
<td>0.1224</td>
<td>0.2998</td>
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<tr>
<td>Reported physical GBV</td>
<td>0.2363</td>
<td>0.4415</td>
<td>0.0179</td>
<td>0.1629</td>
<td>0.4837</td>
<td>0.5544</td>
<td>0.0064</td>
</tr>
<tr>
<td>Report violence to family, friend, or community</td>
<td>0.5680</td>
<td>0.6075</td>
<td>0.5826</td>
<td>0.6174</td>
<td>0.6652</td>
<td>0.5843</td>
<td>0.8424</td>
</tr>
<tr>
<td>Report violence to police or authority</td>
<td>0.5985</td>
<td>0.6905</td>
<td>0.1613</td>
<td>0.4219</td>
<td>0.1170</td>
<td>0.6395</td>
<td>0.6483</td>
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