Can Media Campaigns Empower Women Facing Gender-Based Violence amid COVID-19?*

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Women’s exposure to gender-based and intimate partner violence (GBV and IPV) may be especially acute due to COVID-19, which has led to a notable increase in reporting of such violence, especially in the Global South. Building on recent studies on the role of edutainment and community-level interventions in combating GBV and IPV, we assessed the impact of a randomized intervention distributed via widely used social (Facebook and WhatsApp) and traditional (TV) media by an Egyptian women’s rights non-governmental organization amid COVID-19. WhatsApp was a more effective way to deliver the treatment information than Facebook, but there are no statistical differences across outcomes between WhatsApp and TV dissemination. Our findings show that overall these media campaigns had no impact on women’s attitudes toward gender or marital equality, or the justifiability of GBV or IPV. However, the campaign did increase women’s knowledge, hypothetical, and reported use of resources available to those exposed to GBV and IPV.

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The restrictions on movement, social isolation, and increased economic stress accompanying the COVID-19 pandemic have increased women’s exposure to gender-based violence (GBV) and intimate partner violence (IPV) (1, 2). Beyond being morally reprehensible, GBV and IPV increase social inequality and undermine economic development (3–5). The prevalence of GBV and IPV across the globe and their significant economic costs have led to an increase in research on how to curb violence. Globally, systematic reviews have emphasized the need to shift norms that accept violence (6, 8), remedy the economic and political marginalization of women (9–11), and consider community-based interventions including public engagement and advocacy (12–14).

COVID-19 has limited organizations’ ability to implement traditional in-person, often community-based, interventions, spurring the need for alternative ways of disseminating information and providing resources and support to women potentially impacted by violence. Harnessing the increased use of the internet and social media during the pandemic (15), we assess the impact of a social media and traditional TV campaign aimed at increasing women’s rejection of violence and deepening knowledge of resources and support services available to those impacted by GBV and IPV.

Our study draws on findings that the expansion of entertainment programming along with cable TV has durably shifted gender norms and outcomes across contexts (16, 17). Closely connected research on edutainment posits that exposure to role models or dramatized, entertaining content can change attitudes by capturing individuals’ attention, and motivating shifts in social behaviors (18, 19). Particularly when delivered at the community-level, edutainment may also shift perceptions of social norms and cue behavioral changes (20, 21). Studies that apply informational or edutainment interventions around GBV and IPV (22–25) have produced mixed findings. While some have found that interventions increase rejection of violence (22, 23), especially when delivered via communal channels, others note these interventions do not shift attitudes but increase individuals’ willingness to report violence (24, 25). However, while scholars have used social media to examine phenomena like misinformation (26, 27) and political accountability (28), we are not aware of any study that probes whether social media platforms like Facebook and WhatsApp can be effective in delivering edutainment interventions, which often rely on traditional film distribution or in-person gatherings for communal screenings.

Egypt, the context of our intervention, features high levels of gender inequality and gender-based violence, ranking 129th out of 153 countries in the World Economic Forum’s 2020 Global Gender Gap Index (29), reflecting the high rates of GBV and IPV in the broader Arab world (30, 31). 36% of ever-married women between the ages of 15-49 surveyed in 2015 report having experienced physical domestic violence, but only one-third of these women sought help to stop violence and only 18% reported it (32). There are several phenomena that explain such low levels of help seeking and reporting. More than half of ever-married women surveyed in 2005 express that physical domestic violence (hitting or beating) was justifiable in some cases (33, p. 1128). Social norms that blame women who are exposed to intimate partner violence...
and sanction women who report violence to authorities also sustain its occurrence (34). Those who do reject violence and would report it must contend with the challenges of navigating the Egyptian legal system’s handling of violence against women amid the absence of some legal protections against IPV (34, 35).

Despite these barriers to reporting directly to authorities, women subjected to violence can also access advocacy organizations, which provide them with resources and counseling on ways to safely respond to violence. Indeed, existing cross-national research shows that mobility limitations related to the COVID-19 pandemic led to increased searches for online resources around domestic violence (2). Research also underscores the challenge COVID-19 presented to existing organizations attempting to reach isolated audiences, emphasizing how social distancing renders women without knowledge of resources and organizations especially vulnerable (5). Our baseline survey of close to 6,000 Egyptian women showed that only 28% exhibited any knowledge of online resources and 22% knew of any organizations available to support women affected by GBV or IPV.

To explore the potential for content delivered over social and traditional media to shift attitudes, increase knowledge of available resources and shift behaviors around responding to GBV and IPV, we worked with an established women’s rights non-governmental organization (NGO), the Egyptian Center for Women’s Rights (ECWR), whose media programs, hotlines, and legal advocacy seek to shift women’s rejection of violence, address norms that heighten women’s inequality, and provide resources to aid women impacted by violence. The organization, and particularly its founder, women’s rights lawyer Nehad Aboul Qomsan, social media and TV as an important, underutilized tool for NGOs and public agencies to connect with women subjected to violence and disseminate information about resources available for such women, especially given social distancing restrictions common in the pandemic.

We analyzed how encouragement to watch videos produced by ECWR and Aboul Qomsan with content aimed at empowering women through a shift in attitudes, increased knowledge, and change in responses to violence. The first set of videos constituted the latest season of a weekly TV show called Hekayat Nehad (Nehad’s Stories), aired on a popular satellite channel, Al Kahera Wa Al Nas, on Saturday evenings between June 27, 2020 and September 5, 2020. The shows’ 10 episodes were around 25-30 minutes in length and featured Aboul Qomsan sitting in a TV studio and speaking directly to the camera in a conversational tone. ECWR and Aboul Qomsan also produced a second set of thirteen 5-9 minute videos, with a similar narrative style as the TV show, to be disseminated over social media. Her tone and conversational nature aimed to cue the role modeling effects emphasized in edutainment interventions. Appendix Tables S1 and S2 summarize the content of each TV episode and video disseminated over social media, while Figure S2 shows an example of the landing page that social media users accessed.

While different in length and setting, the TV show and the video messages featured similar content centered on topics related to women’s empowerment, sexual harassment, and violence against women. In the videos, Aboul Qomsan addresses linkages between patriarchal social
norms and exposure to violence; emphasizes that women are not to blame for violence; defines violence beyond just physical force and highlights its prevalence in the family, workplace, and in public; details Egypt’s legal system, including where it needs reform; and instructs friends and families who become aware of violence to support victims. Given the difficulty in navigating the Egyptian legal system, the videos often emphasize access to NGOs, like an ECWR-sponsored hotline, that can connect women with support resources, including legal consultations. When discussing high-level violence like rape, she also underscores procedures to preserve evidence and immediately notify the police. Aboul Qomsan formally discusses the hotline at the end of most video messages, while she emphasizes several organizations and intricacies of navigating the Egyptian legal system more diffusely in the TV show. When discussing the complexities of the Egyptian legal system, Aboul Qomsan often emphasizes that respondents should contact ECWR, who can to provide legal representation.

1 Recruitment, Demographics, Treatment Delivery

Our intervention resembled those fielded in person in contexts as diverse as India (36), Mexico (22), and Uganda (24, 25), but distinctively different in how we recruited participants into the study and especially in how we delivered the content. We used Facebook advertisements to recruit approximately 10,000 Egyptian women to a baseline survey. To incentivize participation, respondents who completed the survey received 25 Egyptian Pounds (1.2 USD) in mobile phone credit. As part of the baseline survey, respondents were invited to text a project WhatsApp account, add the number to their contacts, and follow and send a message a project Facebook account to request receiving additional information and videos about women’s issues in Egypt. After removing individuals with duplicated responses, which we feared were not genuinely interested, we identified 5,618 Egyptian women interested in receiving such information and videos. In an endline survey conducted between September 10 and October 11, 2020, endline response rates were balanced among treatment conditions at 75% yielding a final sample of 4,165 participants.

We chose to recruit an all-female sample for two practical reasons beyond allowing a close focus on women’s attitudes. First, our partner’s content is designed to speak to and spark conversation among women and to address sensitive topics around GBV and IPV. Second, as some of our treatment content was disseminated via Whatsapp groups, rather than individually, we sought to avert the potential for harassment of women online that may have been more likely to occur in mixed-gender groups. Fig S1. show that our final sample of Egyptian women was largely drawn from more densely populated Egyptian governorates, and in particular Egypt’s most populous city and its capital, Cairo. However, Figure 1 shows that respondents were demographically similar in age, education, relationship status, number of children, and extent of media usage, to Egyptian women who reported having access to the internet—the study’s population of interest—in the 2016 and 2018 rounds of the nationally-representative Arab Barometer survey.
Using block randomization to ensure balance among treatment arms according to baseline demographics and attitudes, baseline respondents that showed interest in receiving more information and videos were assigned to one of five treatment conditions. A control group received all treatment content upon completion of the endline survey. A treatment group received WhatsApp messages reminding them about the TV show. In the remaining three treatment arms, we delivered video messages via the two most popular social media platforms in Egypt: WhatsApp and Facebook (37). Appendix Table S3 displays details on the block randomization procedure, assignment to treatment, and endline response rates across treatment arms. Appendix Tables S4-S11 show that the randomization was successful.

Participants in the TV Reminder treatment received a WhatsApp message each Saturday informing them about the time and channel of the show Hekayat Nehad over an eight week period from July 18, 2020 through September 5, 2020. Participants assigned to the other three treatment arms—Facebook, WhatsApp Individual or WhatsApp Group—received thirteen links to a website publishing the videos mentioned earlier over the course of the same eight week period. Those in the WhatsApp Individual treatment received individual messages, while those in the WhatsApp Group received messages in groups of between eight and twelve other users. In both, the Individual and Group treatments, basic questions about the goals of the research were answered, but there was no in-depth moderation.

Lastly, those respondents assigned to the Facebook treatment initially received individual messages via Facebook’s Custom Messages Channel. However, this treatment arm was transitioned to individual WhatsApp receipt after the delivery of four videos due to a technical issue with the Facebook account. In the subsequent analysis, we pool individuals who received the messages via WhatsApp and Facebook individually. Below, we discuss the relative effectiveness of the different social media platforms in generating consumption of the treatment information by participants.

We examine whether a mode of delivery was particularly effective in generating treatment consumption and ultimately shifting attitudes, increasing information about resources and support, and changing behaviors. Communally-delivered content may provoke more substantive shifts in attitudes and behaviors than content delivered individually, by generating discussions conducive to changes in individuals’ beliefs about social norms (22, 38). In using the Group functionality of WhatsApp, we aimed to measure whether communally transmitted information on social media functions similarly to offline groups. Observing conversation in groups before endline, however, we noted very low levels of aggregate conversation (Table S12).  

1Since we received IRB approval three weeks after the TV show started, these messages initially also pointed to the location of videos from the first three episodes.

2This might be driven by the fact that participants did not know other participants in the assigned WhatsApp group. However, the lack of variation on the extent to which WhatsApp group members knew each other prevent us from being more conclusive about this.
2 Information consumption

Our study differs from other edutainment interventions around GBV and IPV in its use of social and traditional media to deliver content rather than communal screenings or radio broadcasts (23,25). As a result, the first challenge of our study was whether individuals would consume the information we delivered via Facebook and WhatsApp, given their limited attention and the significant amount of information and notifications they receive online.

Because participants assigned to the social media treatment arms received messages with links to a server that showed videos hosted on YouTube, we can measure website visits and YouTube views to understand aggregate consumption of treatment information across those treatment arms. While this data is subject to error around the website’s calculation of unique users, S5 and Tables S13 and S14 suggest that approximately 45% of those in the social media treatment arms visited the site, and that the mean visitor watched between 2 and 3 videos.

Server data also allows us to explore the relative effectiveness of Facebook vis-a-vis WhatsApp in ways that self-reported viewing at endline would not. Fig. S3 displays visits per assigned user across videos distinguishing for Facebook and WhatsApp Individual treatments. Fig. S4 reports the corresponding means for the first four weeks, when we were able to disseminate videos through Facebook, and the last eight weeks, when we had to continue disseminating the treatment information via WhatsApp to those initially assigned to Facebook. A simple difference-in-differences analysis, which uses the fact that participants assigned to receive videos through Facebook treatment were migrated to WhatsApp Individual delivery, indicates that the individual dissemination of videos via WhatsApp was much more effective than through Facebook, with 0.126 (p < 0.05) visits more per assigned users for WhatsApp Individual than for Facebook. These differences show that, in addition to the technical issue we faced with our Facebook account, WhatsApp was a more effective method to deliver the treatment content in terms of generating video views.

3 Empirical Specification and Description of Outcome Measures

Our main results are from the following Intent-To-Treat Specification using weighted generalized least squares (WGLS)\(^4\)

\[
Y_i = \alpha_0 + \alpha_1 F\&WI + \alpha_2 WG + \alpha_3 TV + \Omega X_i + \gamma b + \varepsilon_i,
\]

Table S12 shows visits and average visiting or viewing time per video for the website and YouTube respectively. Fig. S5 report the distribution of visits per user across treatments. Out of 3,695 assigned users, the website data identified 1,635 unique users who visited a total of 7,090 times, spending approximately 4 minutes each on the site.

\(^3\)The weights correspond to the inverse probability of treatment assignment, and are detailed in Appendix Table S1.
where $Y_i$ is an outcome of interest of individual $i$; $F & WI$, $WG$, and $TV$ are respectively indicators for treatment assignment to Facebook or WhatsApp Individual, WhatsApp Group, and TV Reminders; $X_i$ are baseline-individual controls from the corresponding family of outcomes, $\gamma_b$ are block-randomization fixed effects. Our primary estimates ($\alpha_{1-3}$) recover the treatment effects for the Facebook or WhatsApp Individual, WhatsApp Group, and TV Reminder treatments.

In addition to measuring the extent to which treated participants internalized the treatment information through indexes of reported consumption of videos and knowledge about treatment information (Tables S15-16), we focus on the following indexes as outcomes: attitudes around violence, gender, and marital equality; reported and hypothetical behavior; as well as future outlook toward gender and marital equality. Knowledge questions measured respondents’ ability to list organizations and online resources available to support women (Table S17). We measured attitudinal outcomes via two indexes, both centered around content explicitly delivered in the videos. The first index of gender and marital equality includes questions around the husband’s role in the family, women’s place in the workforce, and the justifiability of forms of violence like yelling and hitting (Table S18). The second index revolves around attitudes toward sexual violence, including questions on whether verbal harassment carries legal consequences, harassment in the street and the workplace, and whether women’s clothing plays any role in exposure to violence (Table S19). In line with other studies’ use of donations to measure commitment to a cause (39, 40), we also measured whether our intervention shifted individuals’ willingness to make a donation to a support organization, in this case by sacrificing some or all of their remuneration for the endline survey (Table S20).

Our main behavioral outcomes centered around hypothetical and recent use of resources in response to domestic or sexual violence (Tables S21 to S23). We pre-registered the intervention’s focus on accessing support organizations or online resources, which were emphasized in the treatment content. Finally, we measured outcomes related to respondents’ beliefs about whether Egyptian women would achieve gender equality and gender rights in the future (Table S24). These questions measured women’s beliefs that in the future women would have an equal say in family decisions, as well as more equal legal rights, access to education, and economic opportunities. We also measured reported outcomes that we did not expect our intervention to shift, like self-reported exposure to violence (Table S25-S26), hypothetical reporting behaviors to family members or authorities (Tables S27-S28), as well as reporting behaviors prior to COVID-19 (Table S29). Table S30 displays all of the questions used to generate these endline indices.

## 4 Results

Figure 2 shows a successful treatment-information delivery, as individuals in the various treatment arms were more likely to report receiving and viewing treatment content, and were able
to accurately describe the content of either the videos disseminated over social media or the TV show. These results underscore the utility of using both social and traditional media to deliver this type of content. The successful treatment delivery over social media is particularly noteworthy, given the high numbers of messages that women in Egypt may have received each day, especially during the pandemic (2).

The third panel of Figure 2 shows that individuals who received the videos or reminders to watch the TV show reported increased knowledge about information on resources for women subjected to violence (0.12-.30 SD increase, p < 0.01; see disaggregated results for the individual outcomes aggregated into the index in Table S17), which were continuously emphasized in the treatment content. As in the results that follow, there is no robust difference in knowledge acquisition between those receiving the treatment content via WhatsApp (individually or in groups) or the TV shows.

Figures 3 through 5 display our results in terms of attitudes, resource use, and future outlook. Results show that receipt of the videos over social media or reminders to watch the TV show did not shift individuals’ beliefs toward gender and marital equality, increase rejection of sexual violence, or increase willingness to donate to support organizations. Tables S18 through S20 show disaggregated results, and similarly shows null results across all outcomes. Results in Columns 5-7 in Table S34 show that ceiling effects among individuals who at baseline hold attitudes rejecting violence or were more in favor of gender and marital equality do not drive these null results. Instead, these results underscore the stickiness of attitudes toward gender norms, which are reinforced by patriarchal cultural norms, prevailing religious interpretations, and via economic structures like labor market barriers (40,41).

In contrast, Figure 4 shows the intervention successfully encouraged treated participants to use the resources for women subjected to violence emphasized in the videos and the TV show. The two central plots of the figure show that, in hypothetical scenarios of response to domestic and sexual violence, treated participants were more likely to report that they would seek to use online resources or contact an organization (0.08-0.11 SD increase, at least p < 0.05; Tables S21 and S22 report disaggregated results).

Figure S6 and Tables S27 and S28, meanwhile, show that the intervention had no impact on individuals’ hypothetical responses to violence via talking to family members or contacting the authorities. The preregistration anticipated these results, as the treatment content did not emphasize or encourage these forms of reporting. In portions of both the videos and TV show, Aboul Qomsan alludes to ongoing efforts to improve women’s protections in the Egyptian legal system, and alludes to recent court cases in which women subjected to violence struggled to access justice. Given this background, we did not anticipate that the intervention would meaningfully have an impact on the perception of the Egyptian legal system, and thus associated behavior.

More importantly, in addition to reporting more willingness to contact a support organization or
use online resources for women affected by violence, the far-right column of Figure 4, meanwhile, shows that treated women were also more likely to report recent contact with a support organization and use of these resources (0.1 SD increase, $p < 0.01$, for WG and TV; 0.06 SD increase, $p < 0.1$, for FB + WI; Table S23 reports disaggregated results). The left panel of Figure 4 shows that these changes in behavior are not due to increased exposure to violence; as we anticipated, there is a precise null on reported experience of domestic and sexual violence during COVID-19 (see Table S25 for disaggregated results).

Finally, Figure 5 shows that despite having limited impact on women’s attitudes toward gender and marital equality and rejection of violence, the intervention increased women’s beliefs that women would achieve greater gender and marital equality in the future for participants who received individual messages via WhatsApp and Facebook, or who received reminders of the TV show (0.1 - 0.13 SD increase, $p<0.05$), but not for those who received the messages via WhatsApp groups. This null result in WhatsApp Groups may be due to the absence of substantial interactions in those groups.

Figures 1 and 6 and Appendix Tables S33-S34 underscore that our results are generalizable and not driven by social desirability bias. While Figure 2 shows that the women in our study demographically reflect female internet users in Egypt, Figure 6 displays how their attitudes differ from those of women surveyed in the two most recent rounds of the nationally representative Arab Barometer survey. The data show that the women who participated in our study express attitudes slightly more in favor of gender and marital equality at baseline than respondents in the most recent waves of the Arab Barometer survey. Similarly, women in our study are more likely to report at baseline that they would consider contacting an organization, and are more likely to report knowing of or experiencing violence; however, these questions are worded differently across the questionnaires.

Given these differences, to further analyze the generalizability of our results, we estimate heterogeneous effects based on a few variables. These include baseline attitudes, as it was possible that ceiling effects in terms of already favorable attitudes toward gender or marital equality and greater rejection of violence. Further, age could have played an important role and our experimental sample is slightly younger than that of those women who reported having access to the internet in the Arab Barometer survey (Tables S31 and S32). While young people are perhaps easier to reach on social media, previous edutainment interventions have underscored that role modeling from a relatable figure can play an important psychological cueing mechanism. As Nehad Aboul Qomsan is an accomplished professional and a mother, we might have expected to see stronger results among older women. Appendix Tables 32 and S33 show that indeed there are no heterogeneous effects on our findings according to these baseline attitudes or demographic variables. This absence of heterogeneous effects suggests any compositional differences in our sample do not impact the generalizability of our results. Finally, the precise nulls on placebo outcomes that our intervention should have no impact on reported experience of violence during COVID-19, recalled experiences of violence before COVID-1, or use of re-
sources before COVID-19 (Tables S25, S26, and S29) emphasize that social desirability bias is not driving the shifts we detect in hypothetical or recently reported use of resources.

5 Discussion

Our findings align, first and foremost, with those that find dramatized interventions can shift increases in reporting violence without necessarily impacting underlying attitudes (24, 25). Unlike these other studies, we focus more specifically on the use of online resources and access to support organizations who can help, possibly remotely, women subjected to GBV and IPC in a context of rising levels of such violence. Our study further extends findings from those edutainment interventions addressing GBV and IPV via its distribution through social media and TV. Interventions delivered via social media and TV differ considerably relative to those delivered via communal film screenings (23, 25), or transmission (22), such that they may not induce discussion or cue perceptions that others’ norms are shifting, limiting their behavioral impact. Despite these differences, together with traditional media such as TV, social media platforms like Facebook and WhatsApp can be highly impactful because they are increasingly popular in Egypt (42) and elsewhere, and allow for low-cost—even free—information dissemination and circumventing mobility restrictions resulting from COVID-19.

Future work should extend our findings by considering how to deliver similar programming to men or consider mixed-gender groups. Several recent, successful interventions that purposefully include men and male community leaders have shifted women’s access to the labor market (43) and exposure to violence (13), or shown that edutainments’ impacts can work through shifts in male attitudes (23). We did not include men in our intervention because Aboul Qom-san’s content is geared toward women, and because the high prevalence of online harassment constrained us from creating mixed-gender groups. Future online interventions should carefully consider how to appropriately include men without cueing fears or heightening the risk of online harassment.
Fig. 1: Comparison of demographics between Arab Barometer and experimental sample respondents

(A) Age

(B) Education level

(C) Relationship status

(D) Number of children

(E) Social media use

(F) Weekly hours spent on social media

Notes: The Arab Barometer data belongs to the 2016 and 2018 waves. Additional summary statistic comparisons are in Table S30.
Fig. 2: Treatment effects on TV show consumption, Facebook and WhatsApp treatment consumption, and knowledge of resources delivered in treatment

Notes: The estimates and 95% confidence intervals in each box are from separate WGLS regressions where the weights are in the inverse probability of treatment assignment. The labels are the corresponding dependent variables regressed on treatment indicators (FB + WI = Facebook or WhatsApp individual message, WG = WhatsApp group message, TV = TV show reminder), relevant baseline controls and randomization block fixed effects. The outcomes included in the index of TV show consumption are in Table S15. The outcomes included in the index of videos of women’s empowerment and support are in Table S16. The outcomes included in the index of knowledge about treatment information are in Table S17.
Fig. 3: Treatment effects on attitudes toward gender and marital equality, and sexual violence

Notes: The estimates and 95% confidence intervals in each box are from separate WGLS regressions where the weights are in the inverse probability of treatment assignment. The labels are the corresponding dependent variables regressed on treatment indicators (FB + WI = Facebook or WhatsApp individual message, WG = WhatsApp group message, TV = TV show reminder), relevant baseline controls and randomization block fixed effects. The outcomes included in the index of attitudes toward gender and marital equality are in Table S18. The outcomes included in the index of attitudes on sexual violence are in Table S19. The outcomes included in the index of donation to organizations supporting women are in Table S20.
Fig. 4: Treatment effects on violence experienced during COVID-19, hypothetical and recent use of online resources or contact with an organization when responding to domestic or sexual violence

Notes: The estimates and 95% confidence intervals in each box are from separate WGLS regressions where the weights are in the inverse probability of treatment assignment. The labels are the corresponding dependent variables regressed on treatment indicators (FB + WI = Facebook or WhatsApp individual message, WG = WhatsApp group message, TV = TV show reminder), relevant baseline controls and randomization block fixed effects. The outcomes included in the index of domestic and sexual violence experienced during COVID-19 are in Table S25. The outcomes included in the index of hypothetical use of online resources and contact with an organization when responding to domestic violence are in Table S21. The outcomes included in the index of hypothetical use of online resources and contact with an organization when responding to sexual violence are in Table S22. The outcomes included in the index of recent use of online resources and contact with an organization during COVID-19 are those in Table S23.
Fig. 5: Treatment effects on women’s future outlook toward gender and marital equality

Notes: The estimates and 95% confidence intervals in each box are from separate WGLS regressions where the weights are in the inverse probability of treatment assignment. The labels are the corresponding dependent variables regressed on treatment indicators (FB + WI = Facebook or WhatsApp individual message, WG = WhatsApp group message, TV = TV show reminder), relevant baseline controls and randomization block fixed effects. The outcomes included in the index of views on women’s future outlook toward gender and marital equality are in Table S24.
Fig. 6: Comparison of attitudes and behavior between Arab Barometer and experimental sample respondents

Notes: The Arab Barometer data belongs to the 2016 and 2018 waves. Additional summary statistic comparisons are in Table S31. The “Support from” variables differ in both surveys: the Arab Barometer survey asked whether respondents thought that a family member who was abused would be able to receive assistance from each of the actors, and our survey asked whether respondents would recommend a friend or family member who was abused to reach each of the actors. (2) The “Experienced violence” variable differs in both surveys: the Arab Barometer survey asked if in the last twelve months a female member of the household was abused by another member, and our survey asked whether, in the month before the COVID-19 pandemic, they heard of someone or themselves experienced being hit by a man.
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Supplementary Materials

Fig. S1: Survey responses by Egyptian Governorate
Fig. S2: Example of a treatment video whose link was disseminated to individuals assigned to the Facebook, WhatsApp Individual, and WhatsApp Group treatments.
Fig. S3: Video landing web page visits for Facebook and WhatsApp Individual treatment before and after participants assigned to the Facebook treatment were shifted to the WhatsApp Individual treatment.
Fig. S4: Difference in difference effects of WhatsApp Individual treatment on video landing web page visits

Notes: The estimates and 95% confidence intervals in each box are from the same difference in difference regression. We regressed number of visits per assigned participant per video on an indicator for Facebook treatment assignment, an indicator for the shift in distribution from Facebook to WhatsApp Individual, and the interaction between the two indicators, while including video fixed effects. The coefficient on the interaction is 0.126 (p < 0.05).
Fig. S5: Number of treatment web pages visited per web page user across treatments

(A) All treatment pages

Mean = 2.6

(B) Facebook treatment pages

Mean = 2.3

(C) WhatsApp individual treatment pages

Mean = 2.8

(D) WhatsApp group treatment pages

Mean = 2.4
Fig. S6: Treatment effects on hypothetical talking to husband and family members, or reporting to authorities when responding to domestic and sexual violence

Notes: The estimates and 95% confidence intervals in each box are from separate WGLS regressions where the weights are in the inverse probability of treatment assignment. The labels are the corresponding dependent variables regressed on treatment indicators (FB + WI = Facebook or WhatsApp individual message, WG = WhatsApp group message, TV = TV show reminder), relevant baseline controls and randomization block fixed effects. The outcomes included in the index of hypothetical talking to husband, family members, or reporting to authorities when responding to domestic violence are in Table S24. The outcomes included in the index of hypothetical talking to husband and family members, or reporting to authorities when responding to sexual violence are in Table S25.
Fig. S7: Treatment effects on violence experienced before COVID-19 and recent use of online resources or contact with an organization when responding to domestic or sexual violence

Notes: The estimates and 95% confidence intervals in each box are from separate WGLS regressions where the weights are in the inverse probability of treatment assignment. The labels are the corresponding dependent variables regressed on treatment indicators (FB + WI = Facebook or WhatsApp individual message, WG = WhatsApp group message, TV = TV show reminder), relevant baseline controls and randomization block fixed effects. The outcomes included in the index of domestic and sexual violence experienced before COVID-19 are in Table S26. The outcomes included in the index of recent use of online resources and contact with an organization before COVID-19 are in Table S27.

Content Tables
| Ep. | Title                                                                 | Content                                                                                                                                                                                                                   | Reporting                      |
|-----|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1   | What is sexual harassment and what is its penalty?                     | Pervasiveness of sexual harassment; definition; harassment in public, on streets or in stores; men’s role in harassment; legal rights and ramifications of violence; interfering when you witness harassment; contact ECWR where a professional team will help you learn how to deal with these situations. | Organizations                   |
| 2   | Sexual harassment of children and how to protect them?                 | Sexual harassment of children; protecting, supporting, & believing children; boundaries; contact ECWR.                                                                                                                  | Organizations                   |
| 3   | Are women’s clothes the cause of sexual harassment?                    | Sexual harassment; justifiability of sexual harassment; research on when it occurs; personal experiences; harassment and veiling, the Niqab; supporting victims & contacting ECWR.                                   | Organizations; ECWR             |
| 4   | FGC and how to stop it?                                                | FGC; negative health effects; absence of relationship with religion; criminality; doctors’ role; contact ECWR.                                                                                                          | Organizations; ECWR             |
| 5   | Impact of COVID-19 on increasing domestic violence                      | COVID-19 & DV; safety in the home; justifiability of violence; violence’s harm to relationships; cycles of violence; supporting victims; contact ECWR.                                                                  | Organizations; ECWR             |
| 6   | Rape crimes and how to fight them                                      | COVID-19 & social issues; anxiety; spread of violence & rape in public spaces; female clothing; how to report to the police; gaining justice; family support; psychological effects; contact ECWR.                                    | Organizations; ECWR; police     |
| 7   | The difference between divorce and Khul’ and when to choose either?    | COVID-19 rise in DV; rise in questions re: divorce and Khul’; difference between two; legal rights; Egyptian law; contact ECWR.                                                                                             | Organizations; ECWR             |
| 8   | The importance of work and how to balance between work and home?       | Absence of conflict between work and home; safety via financial security; work’s benefit to social relations and esteem; work and tensions with a husband or family; work as a safety net; contact ECWR.                                   | Organizations; ECWR             |
| 9   | The negative effects of Covid-19 on women’s work                       | COVID-19 and labor market; schools; working remotely; combating sexual harassment at the workplace; inappropriate staring; sexual harassment as a crime; contact ECWR.                                                  | Organizations; ECWR             |
| 10  | How to deal with workplace harassment?                                 | Definition; lack of justifiability; online harassment; criminality; intervening in a case of harassment; expressing opinions; creating a safe workplace; contact ECWR.                                                | Organizations; ECWR             |
| 11  | How to act if you saw someone harassing a colleague at work?           | COVID-19 & changes in workplace; work environment; intervening in harassment; helping a colleague; importance of speaking up; assuring privacy; contact ECWR.                                                               | Organizations; ECWR             |
| 12  | Dealing with workplace harassment for new employees                    | Workplace harassment; seeking training as a new employee; expectations and boundaries; saying no; contact ECWR.                                                                                                         | Organizations; ECWR             |
| 13  | How can men stand against violence against women?                     | Need for men’s support; COVID-19 and rise of ECWR complaints; men’s role in intervening; men’s role in regulating anger; no justifiability of anger or violence; blame on women; men standing against violence; contact ECWR. | Organizations; ECWR             |

Table S1: Content of videos hosted on our website and delivered via message.
| Ep. | Title                                           | Content                                                                                                                                                                                                 | Reporting                                                                 |
|-----|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1   | Statement of the Egyptian Public Prosecutor    | Female Genital Cutting (FGC); one family’s experience; a family’s criminal responsibility.                                                                                                           | Reporting FGC to the police                                             |
| 2   | Horrible Stories from Medical Clinics          | FGC; doctors’ role in limiting FGC; FGC’s lack of health benefits; Social relationships in COVID-19.                                                                                                  | Need for patients & doctors to contact police on FGC                     |
| 3   | Rape and Sexual Harrassment: To Who and Why?   | Rape; current events; parental support for daughters who are victims; minimizing victim blaming; reporting; COVID-19.                                                                                   | Procedures for reporting to the police, reforms to limit fears of reporting |
| 4   | Underage Marriage                              | Health implications of underage marriage; laws in Egypt; marriage officials; household life in COVID-19.                                                                                               | Advertising of organization                                             |
| 5   | Mary Asaad & Aziza Hussein                     | A women’s initiative to combat FGC; women’s activism; family planning; physical & emotional consequences of FGC; religion & FGC.                                                                  | Advertising of support organization; the need for legal reform.          |
| 6   | What do men want from women?                   | Male & female partnership; research on men’s perceptions of manhood; FGC; COVID-19 and domestic violence (DV); a UN initiative combating DV.                                                          | NA; Advertising of support organization                                 |
| 7   | What should you do if you are in the home & you don’t feel safe? | DV against women during COVID-19; reporting DV to then police or doctors; total number of comments, questions, & calls to organizations’ pages and hotlines; organizations supporting women facing DV in situations; COVID-19’s impacts on women generally; COVID-19 & the economy. | Reporting: Police, institutions, organizations, phone number.          |
| 8   | FGC & the Internet                              | FGC; intergenerational relationships; COVID-19 & internet usage.                                                                                                                                 |                                                                         |
| 9   | What’s the definition of a man?                | A divorce after DV; raising responsible children and men; forgiveness for men & men’s expectations; women’s views on the justifiability of DV vs. men’s; how to help women facing DV who accept DV; how to respond while violence is occurring & how to flee home if you need to | Seeking support from to organizations; available hotlines; calling the police |
| 10  | Do women prefer kind or macho (over-protective) men? | Negative effects of over-protectiveness; anecdote about a marriage; spread of negative information about marriage; shifting gender norms and women’s preferences; unjustifiability of any form of DV; role of doctors; reporting DV in cases of extreme violence. | Reporting: Police, institutions, organizations.                          |

| Table S2: Content of TV shows hosted on satellite channel. |
Table S3: Block sizes, treatment probabilities and responses rates by treatment assignment

| Treatment               | Baseline | Block size | Treatment probability | Block size | Treatment probability | Endline | Response rate |
|-------------------------|----------|------------|-----------------------|------------|-----------------------|---------|---------------|
| Control                 | 1104     | 10         | 1/5                   | 50         | 1/5                   | 839     | 0.76          |
| Facebook                | 565      | 10         | 3/5                   | 0          | 0                     | 418     | 0.74          |
| WhatsApp Individual     | 1118     | 10         | 1/5                   | 50         | 1/5                   | 824     | 0.737         |
| WhatsApp Group          | 1879     | 0          | 0                     | 50         | 2/5                   | 1382    | 0.735         |
| TV Show Reminder        | 952      | 0          | 0                     | 50         | 1/5                   | 702     | 0.737         |
| **Total**               | **5618** |            |                       | **4165**   |                       |         | **0.741**     |

*Notes:* We block randomized treatment assignment separately according to whether we could identify the Facebook account of the baseline survey respondent.
## Balance Tables

### Table S4: Balance on demographics variables

#### Panel A: Respondent’s outcomes

|                      | Age (1) | Education (BA) (2) | Number of male children (3) | Number of female children (4) | Other family members (5) |
|----------------------|---------|--------------------|----------------------------|-------------------------------|--------------------------|
| Facebook and WhatsApp Ind. | 0.096   | -0.021             | -0.028                      | 0.062*                        | -0.135                   |
|                      | (0.363) | (0.013)            | (0.035)                     | (0.035)                       | (0.125)                  |
| WhatsApp Group      | -0.008  | -0.012             | -0.014                      | 0.021                         | -0.050                   |
|                      | (0.396) | (0.014)            | (0.038)                     | (0.038)                       | (0.136)                  |
| TV Show Reminder    | -0.144  | -0.020             | -0.058                      | 0.027                         | -0.141                   |
|                      | (0.395) | (0.014)            | (0.038)                     | (0.037)                       | (0.136)                  |
| Control Mean        | 31.507  | 0.753              | 0.685                       | 0.559                         | 2.652                    |
| Observations        | 4,165   | 4,165              | 4,165                       | 4,165                         | 4,165                    |
| R²                   | 0.161   | 0.518              | 0.136                       | 0.120                         | 0.101                    |

#### Panel B: Whether married and husband’ outcomes

|                      | Married (1) | Age (2) | Education (BA) (3) | Marriage duration (4) | Husband lives at home (5) |
|----------------------|-------------|---------|--------------------|----------------------|--------------------------|
| Facebook and WhatsApp Ind. | 0.012       | 7.235*  | -0.035**           | -0.336               | 0.021                    |
|                      | (0.017)     | (4.352) | (0.017)            | (0.431)              | (0.023)                  |
| WhatsApp Group      | 0.005       | 2.469   | -0.053***          | -0.091               | 0.032                    |
|                      | (0.018)     | (4.614) | (0.018)            | (0.456)              | (0.024)                  |
| TV Show Reminder    | 0.002       | -1.299  | -0.042**           | 0.427                | 0.018                    |
|                      | (0.018)     | (4.660) | (0.018)            | (0.461)              | (0.024)                  |
| Control Mean        | 0.555       | 31.631  | 10.064             | 0.798                | 0.818                    |
| Observations        | 4,165       | 2,348   | 2,354              | 2,354                | 2,354                    |
| R²                   | 0.401       | 0.057   | 0.561              | 0.163                | 0.079                    |

**Notes:** We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S5: Balance on before and during COVID-19 home presence of respondent and husband, and whether household income declined with COVID-19

|                           | Before COVID-19 | During COVID-19 |               |               |               |               |               |               |               |
|---------------------------|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                           | full time at home | partially at home | husband full time at home | husband partially at home | full time at home | partially at home | husband full time at home | husband partially at home | COVID-19 income decline |
| Facebook and WhatsApp Ind.| -0.001 (0.020)   | 0.001 (0.021)   | 0.002 (0.018) | 0.011 (0.024) | -0.014 (0.018) | 0.005 (0.017) | 0.012 (0.025) | 0.029 (0.027) | 0.018 (0.018) |
| WhatsApp Group            | -0.017 (0.021)   | -0.003 (0.022)  | 0.017 (0.019) | 0.002 (0.025) | -0.013 (0.020) | -0.001 (0.018) | 0.054** (0.027) | -0.026 (0.029) | 0.015 (0.019) |
| TV Show Reminder          | -0.035* (0.021)  | 0.007 (0.022)   | 0.007 (0.019) | -0.040 (0.025) | -0.027 (0.020) | 0.015 (0.018) | 0.045* (0.027) | -0.062** (0.029) | 0.032* (0.019) |
| Control Mean              | 0.366 0.45 0.099 0.221 0.745 0.194 0.228 0.344 0.757 |
| Observations              | 4,162 4,162 2,351 2,351 4,165 4,155 2,346 2,346 4,165 |
| R²                        | 0.113 0.092 0.074 0.092 0.083 0.075 0.080 0.085 0.067 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S6: Balance on TV show consumption variables

|                          | Watches TV morning | Watches TV afternoon | Watches TV evening | Own TV satellite | Watches Channels of TV show | Watches TV show type | Mentioned watched TV show Saturday evening |
|--------------------------|--------------------|----------------------|-------------------|-----------------|-----------------------------|--------------------|---------------------------------------------|
| All treatments           | 0.010              | -0.029               | -0.011            | 0.009           | 0.014                       | 0.039**            | 0.001                                       |
|                          | (0.015)            | (0.019)              | (0.017)           | (0.010)         | (0.015)                     | (0.019)            | (0.002)                                     |
| WhatsApp Group           | 0.010              | -0.007               | -0.006            | 0.009           | 0.012                       | 0.027              | 0.002                                       |
|                          | (0.016)            | (0.021)              | (0.019)           | (0.011)         | (0.017)                     | (0.021)            | (0.002)                                     |
| TV Show Reminder         | 0.013              | -0.045**             | -0.004            | -0.004          | -0.001                      | 0.009              | 0.005**                                     |
|                          | (0.016)            | (0.021)              | (0.019)           | (0.011)         | (0.017)                     | (0.021)            | (0.002)                                     |
| Control Mean             | 0.137              | 0.319                | 0.781             | 0.934           | 0.148                       | 0.267              | 0                                           |
| Observations             | 4,165              | 4,165                | 4,165             | 4,165           | 4,165                       | 4,165              | 4,165                                       |
| $R^2$                    | 0.045              | 0.060                | 0.057             | 0.059           | 0.047                       | 0.071              | 0.043                                       |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes $p<0.1$, ** denotes $p<0.05$, and *** denotes $p<0.01$. 
Table S7: Balance on social media habits and videos received variables

| Hours spent on social media | Uses WhatsApp | Uses Facebook | Uses Instagram | Uses YouTube | Uses Twitter | Uses Snapchat | Uses Telegram | Watched videos on social media | Watched videos on WhatsApp |
|-----------------------------|---------------|---------------|----------------|--------------|--------------|---------------|---------------|--------------------------------|----------------------------|
| (1)                         | (2)           | (3)           | (4)            | (5)          | (6)          | (7)           | (8)           | (9)                             | (10)                       |
| Facebook and WhatsApp Ind.  | 0.011         | -0.006        | -0.006         | 0.004        | -0.024       | -0.013        | 0.011         | -0.027*                         | 0.028                      | -0.021                      |
|                            | (0.037)       | (0.015)       | (0.013)        | (0.017)      | (0.020)      | (0.011)       | (0.009)       | (0.014)                         | (0.049)                    | (0.041)                     |
| WhatsApp Group             | 0.082**       | -0.001        | 0.005          | 0.024        | 0.021        | -0.009        | 0.020**       | -0.004                          | 0.133**                    | 0.069                       |
|                            | (0.040)       | (0.016)       | (0.015)        | (0.018)      | (0.022)      | (0.012)       | (0.009)       | (0.015)                         | (0.053)                    | (0.045)                     |
| TV Show Reminder           | 0.116***      | 0.016         | -0.026*        | 0.003        | -0.032       | -0.024*       | 0.016*        | -0.005                          | 0.139***                   | 0.096**                     |
|                            | (0.040)       | (0.016)       | (0.015)        | (0.018)      | (0.022)      | (0.012)       | (0.009)       | (0.015)                         | (0.053)                    | (0.045)                     |
| Control Mean               | 1.839         | 0.858         | 0.892          | 0.195        | 0.4          | 0.093         | 0.033         | 0.139                          | 2.863                      | 1.707                       |
| Observations               | 4,165         | 4,165         | 4,165          | 4,165        | 4,165        | 4,165         | 4,165         | 4,165                          | 4,165                      | 4,165                       |
| R²                         | 0.091         | 0.058         | 0.064          | 0.063        | 0.067        | 0.094         | 0.070         | 0.070                          | 0.125                      | 0.113                       |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S8: Balance on attitudes toward gender and marital equality

|                          | Husband final say | Husband earn income | Yelling justified | Hitting justified | Male education priority | Future equal say | Future equal rights |
|--------------------------|-------------------|---------------------|-------------------|-------------------|------------------------|-----------------|---------------------|
| Facebook and WhatsApp Ind. | 0.035             | -0.035              | 0.037             | 0.015             | 0.010                  | 0.067*          | 0.004               |
|                          | (0.043)           | (0.044)             | (0.040)           | (0.019)           | (0.031)                | (0.038)         | (0.033)             |
| WhatsApp Group           | 0.084*            | -0.020              | 0.003             | -0.015            | 0.005                  | -0.019          | -0.024              |
|                          | (0.046)           | (0.048)             | (0.043)           | (0.021)           | (0.034)                | (0.042)         | (0.036)             |
| TV Show Reminder         | 0.026             | -0.057              | -0.047            | -0.037*           | 0.014                  | -0.016          | -0.035              |
|                          | (0.046)           | (0.048)             | (0.043)           | (0.020)           | (0.034)                | (0.042)         | (0.036)             |
| Control Mean             | 2.621             | 2.566               | 2.135             | 1.176             | 1.421                  | 4.101           | 4.313               |
| Observations             | 4.165             | 4.165               | 4.165             | 4.165             | 4.165                  | 4.165           | 4.165               |
| R²                       | 0.078             | 0.090               | 0.108             | 0.066             | 0.057                  | 0.053           | 0.063               |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S9: Balance on domestic violence experienced before and during COVID-19

|                          | Before COVID-19 |          | During COVID-19 |          |
|--------------------------|-----------------|----------|-----------------|----------|
|                          | Heard of or     | Heard of | Heard of or     | Heard of |
|                          | experienced     | or       | experienced     | or       |
|                          | yelling         | hitting  | yelling         | hitting  |
| (1)                      | (2)             |          | (3)             | (4)      |
| Facebook and WhatsApp    | 0.011           | 0.117**  | -0.012          | 0.039    |
| Ind.                     | (0.048)         | (0.052)  | (0.053)         | (0.057)  |
| WhatsApp Group           | 0.023           | 0.045    | -0.001          | -0.021   |
|                          | (0.053)         | (0.057)  | (0.058)         | (0.062)  |
| TV Show Reminder         | 0.010           | 0.046    | -0.021          | 0.030    |
|                          | (0.052)         | (0.057)  | (0.058)         | (0.062)  |
| Control Mean             | 3.659           | 3.3      | 3.479           | 3.176    |
| Observations             | 4,165           | 4,165    | 4,165           | 4,165    |
| $R^2$                    | 0.077           | 0.093    | 0.069           | 0.075    |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes $p<0.1$, ** denotes $p<0.05$, and *** denotes $p<0.01$. 


Table S10: Balance on hypothetical talking to husband and family members, reporting to authorities, use of online resources, and contact with an organization when responding to domestic violence

|                       | Would talk husband (1) | Would Talk family (2) | Would report authorities (3) | Would use online resources (4) | Would contact organization (5) |
|-----------------------|------------------------|-----------------------|-----------------------------|-------------------------------|------------------------------|
| Facebook and WhatsApp | 0.017 (0.050)          | 0.037 (0.047)         | -0.064 (0.055)              | -0.036 (0.051)               | -0.070 (0.050)               |
| WhatsApp Group        | -0.050 (0.054)         | 0.030 (0.051)         | -0.022 (0.060)              | -0.028 (0.055)              | -0.022 (0.055)              |
| TV Show Reminder      | -0.084 (0.054)         | 0.011 (0.051)         | 0.024 (0.060)               | 0.001 (0.055)               | 0.032 (0.055)               |
| Control Mean          | 3.819                  | 3.738                 | 2.64                        | 2.647                        | 3.334                        |
| Observations          | 4,165                  | 4,165                 | 4,165                       | 4,165                        | 4,165                        |
| R²                    | 0.072                  | 0.067                 | 0.077                       | 0.126                        | 0.124                        |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S11: Balance on knowledge and experience of accessing resources for women

|                           | Know online: other than ECWR | Know online: ECWR | Before COVID-19 used online resources | During COVID-19 used online resources | Know organization: other than ECWR | Know organization: ECWR | Before COVID-19 contacted organization | During COVID-19 contacted organization |
|---------------------------|------------------------------|-------------------|--------------------------------------|---------------------------------------|-----------------------------------|-------------------------|----------------------------------------|----------------------------------------|
| **Facebook and WhatsApp Ind.** | 0.003 (0.013)                 | -0.0001 (0.005)   | -0.013 (0.032)                       | 0.037 (0.027)                        | -0.018 (0.013)                   | 0.002 (0.004)           | -0.002 (0.024)                        | -0.039 (0.023)                         |
| **WhatsApp Group**        | 0.001 (0.015)                 | -0.005 (0.005)    | 0.045 (0.035)                        | 0.058* (0.030)                       | -0.020 (0.014)                   | 0.002 (0.005)           | 0.033 (0.026)                         | -0.003                                 |
| **TV Show Reminder**      | 0.011 (0.015)                 | -0.0004 (0.005)   | 0.055 (0.035)                        | 0.059** (0.030)                      | -0.030** (0.014)                 | 0.002 (0.005)           | 0.056** (0.026)                      | 0.002                                 |
| **Control Mean**          | 0.274 0.15                    | 2.404             | 2.269                                | 0.228                                | 0.008                            | 2.178                   | 2.184                                 |
| **Observations**          | 4.165 4.165                   | 4.165             | 4.165                                | 4.165                                | 4.165                            | 4.165                   | 4.165                                 |
| **R²**                    | 0.517 0.080                   | 0.378             | 0.378                                | 0.450                                | 0.060                            | 0.340                   | 0.319                                 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.

Website, YouTube and WhatsApp Conversation Tables

Table S12: Coding of conversations in WhatsApp groups

| Level of conversation        | Number of groups | Description                                                                 |
|-----------------------------|------------------|-----------------------------------------------------------------------------|
| No conversation             | 112              | No one replying at all                                                      |
| Limited conversation        | 69               | Only one person replying with an elaborate feedback or one or more persons replying with short feedback. |
| Active conversation         | 18               | More than one person replying with an elaborate feedback or two members engaging in discussion |
| Problematic conversation    | 1                | Two people getting into a heated argument or one or more persons attacking video content |
| Total                       | 200              |                                                                             |

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Table S13: Unique IPs, users, visits, and average visit time by treatment assignment

| Treatment assignment | Assigned | Unique IPs | Unique users | Total visits | Average visit time |
|----------------------|----------|------------|--------------|--------------|--------------------|
| Facebook             | 586      | 597        | 345          | 1347         | 4:02               |
| WhatsApp Individual  | 1163     | 1178       | 509          | 2463         | 4:01               |
| WhatsApp Group       | 1946     | 1671       | 781          | 3280         | 3:57               |
| Total                | 3695     | 3446       | 1635         | 7090         | 4:01               |

Notes: Website data provides the number of unique IPs, unique users, and total visits by treatment assignment. A unique user is determined via cookies and thus corresponds to a specific individual in a particular device. Note that this table reports different treatment assignment numbers than Table S1 as it includes assignments to individuals who responded twice to the endline survey, and thus were excluded from the study.
Table S14: Website and YouTube analytics

| Video                                                                 | Website Visits | Website Average visit time | YouTube Views | YouTube Average viewing time |
|-----------------------------------------------------------------------|----------------|-----------------------------|---------------|-------------------------------|
| What is sexual harassment and what is its penalty?                    | 682            | 0:03:33                     | 535           | 0:02:33                       |
| Sexual harassment of children and how to protect them?                | 493            | 0:04:57                     | 391           | 0:03:44                       |
| Are women’s clothes the cause of sexual harassment?                   | 372            | 0:03:29                     | 324           | 0:02:49                       |
| Female genital cutting and how to stop it?                            | 286            | 0:04:39                     | 268           | 0:04:04                       |
| Impact of COVID-19 on increasing domestic violence                    | 235            | 0:04:33                     | 212           | 0:02:47                       |
| Rape crimes and how to fight them and COVID-19                        | 226            | 0:03:11                     | 207           | 0:02:53                       |
| The difference between divorce and Khul and when to choose either?    | 230            | 0:04:50                     | 268           | 0:03:22                       |
| The importance of work and how to balance work and family life?       | 268            | 0:04:47                     | 281           | 0:03:51                       |
| The negative effects of Covid-19 on women’s work                      | 96             | 0:02:52                     | 107           | 0:02:55                       |
| How to deal with workplace harassment?                               | 143            | 0:04:33                     | 175           | 0:03:22                       |
| How to act if you saw someone harassing a colleague at work?          | 110            | 0:04:17                     | 146           | 0:02:55                       |
| Dealing with workplace harassment for new employees                   | 146            | 0:04:20                     | 172           | 0:02:44                       |
| How can men stand against violence against women?                    | 184            | 0:06:51                     | 184           | 0:02:33                       |
| **Total**                                                             | **3471**       | **0:04:22**                 | **3270**      | **0:02:59**                   |

*Notes:* Website and YouTube analytics show that videos received a higher number of website visits and viewing time than YouTube views. The reason is that the website measures total duration on the site, whereas YouTube measures time spent viewing the content and is much stricter in defining whether a video was viewed.
Results
### Table S15: Treatment effect on TV show consumption

#### Panel A: Controlling by all baseline covariates in the outcome family

| Index of (1,1,1,1,1,1,1,1,1) | Watched TV evening | Watched channels of TV show type | Watched TV show Saturday evening | Mentioned watched TV show type | Watched TV show | Heard of TV show | Heard of TV show via WhatsApp reminder | Received TV show vs. facebook | Received TV show via WhatsApp reminder | Whether watched TV show | Number of TV show episodes watched | Accurate content of the TV show | Accurate TV show topic liked |
|-----------------------------|---------------------|-------------------------------|--------------------------------|-------------------------------|----------------|----------------|--------------------------|-------------------------------|-------------------------------|---------------------|-------------------------------|---------------------------|--------------------------|
| Facebook and WhatsApp Ind.  | 0.151*** (0.038)    | 0.004 (0.014)                | 0.013 (0.016)                 | 0.051*** (0.020)             | 0.004 (0.009) | 0.035* (0.020) | 0.030 (0.020)             | 0.051*** (0.011)      | 0.107*** (0.015)            | 0.034* (0.020) | 0.094** (0.039)               | 0.036** (0.017)   | 0.041**                  |
| WhatsApp Group              | 0.183*** (0.041)    | 0.010 (0.016)                | 0.024 (0.018)                 | 0.060*** (0.021)            | 0.000 (0.010) | 0.060*** (0.022) | 0.050** (0.022)            | 0.049*** (0.012)      | 0.134*** (0.016)            | 0.056** (0.022) | 0.095** (0.043)              | 0.035* (0.018)   | 0.043**                  |
| TV Show Reminder            | 0.861*** (0.041)    | 0.037** (0.016)              | 0.187*** (0.018)             | 0.126*** (0.021)            | 0.124*** (0.010) | 0.248*** (0.022) | 0.250*** (0.022)            | 0.186*** (0.012)      | 0.685*** (0.016)            | 0.241*** (0.022) | 0.444*** (0.043)             | 0.107*** (0.018) | 0.130***                 |

#### Panel B: Controlling by the dependent variable at baseline (if available)

| F, WI = WG (p-value) | 0.4377 (0.040)     | 0.7201 (0.014)              | 0.5518 (0.017)               | 0.6931 (0.020)              | 0.6876 (0.009) | 0.2593 (0.021) | 0.3564 (0.020)             | 0.8642 (0.011)      | 0.0954 (0.015)            | 0.304 (0.021) | 0.9753 (0.040)               | 0.9501 (0.017) | 0.924                  |
| F, WI = TV (p-value)   | 0.0355 (0.016)     | 0.0023 (0.025)              | 0.1904 (0.001)               | 0.6431 (0.000)              | 0.6866 (0.001) | 0.0300 (0.022) | 0.0000 (0.022)             | 0.0000 (0.012)      | 0.0000 (0.012)            | 0.0000 (0.012) | 0.0000 (0.012)               | 0.0000 (0.012) | 0.0000                  |
| WG = TV (p-value)       | 0.0884 (0.044)     | 0.0023 (0.025)              | 0.1904 (0.001)               | 0.6431 (0.000)              | 0.6866 (0.001) | 0.0300 (0.022) | 0.0000 (0.022)             | 0.0000 (0.012)      | 0.0000 (0.012)            | 0.0000 (0.012) | 0.0000 (0.012)               | 0.0000 (0.012) | 0.0000                  |
| Observations            | 4.165 (0.044)      | 4.165 (0.016)               | 4.165 (0.018)                | 4.165 (0.021)               | 4.165 (0.010) | 4.165 (0.022) | 4.165 (0.022)             | 4.165 (0.012)       | 4.165 (0.012)             | 4.165 (0.012) | 4.165 (0.012)                | 4.165 (0.012) | 4.165                  |
| R²                       | 0.262 (0.044)      | 0.176 (0.016)               | 0.221 (0.021)                | 0.170 (0.021)               | 0.128 (0.012) | 0.164 (0.022) | 0.148 (0.022)             | 0.111 (0.012)       | 0.381 (0.016)             | 0.143 (0.022) | 0.144 (0.044)               | 0.121 (0.019) | 0.135                  |

### Notes:
- We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Watches TV evening, Owns TV satellite, Watches Channels of TV show, Watches TV show type, and Mentioned watched TV show Saturday evening. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S16: Treatment effect on videos of women’s empowerment and support consumption

### Panel A: Controlling by all baseline covariates in the outcome family

|                        | Z-Score (1,1,1,1,1,1,1) | Watched videos on social media | Watched videos on WhatsApp | Received videos on WhatsApp or Facebook | Watched videos on WhatsApp or Facebook | Number of videos watched | Accurate content of the videos | Accurate video topic liked |
|------------------------|--------------------------|-------------------------------|-----------------------------|-----------------------------------------|----------------------------------------|--------------------------|-------------------------------|-----------------------------|
| Facebook and WhatsApp Ind. | 1.027*** (0.038)         | 0.285*** (0.051)              | 1.128*** (0.051)            | 0.490*** (0.016)                        | 0.419*** (0.019)                        | 0.831*** (0.042)         | 0.268*** (0.018)             | 0.319*** (0.019)             |
| WhatsApp Group         | 0.935*** (0.041)         | 0.175*** (0.055)              | 1.077*** (0.055)            | 0.513*** (0.018)                        | 0.426*** (0.021)                        | 0.669*** (0.046)         | 0.216*** (0.019)             | 0.256*** (0.020)             |
| TV Show Reminder       | 0.469*** (0.041)         | 0.148*** (0.055)              | 0.555*** (0.055)            | 0.275*** (0.018)                        | 0.228*** (0.021)                        | 0.330*** (0.046)         | 0.078*** (0.019)             | 0.102*** (0.020)             |

F, WI = WG (p-value) 0.0264 0.0462 0.3661 0.1946 0.7698 5e-04 0.0067 0.0017
F, WI = TV (p-value) 0 0.013 0 0 0 0 0 0
WG = TV (p-value) 0 0.6356 0 0 0 0 0 0
Observations 4,165 4,165 4,165 4,165 4,165 4,165 4,165 4,165
R² 0.273 0.152 0.215 0.276 0.208 0.184 0.136 0.142

### Panel B: Controlling by the dependent variable at baseline (if available)

|                        | Z-Score (1,1,1,1,1,1,1) | Watched videos on social media | Watched videos on WhatsApp | Received videos on WhatsApp or Facebook | Watched videos on WhatsApp or Facebook | Number of videos watched | Accurate content of the videos | Accurate video topic liked |
|------------------------|--------------------------|-------------------------------|-----------------------------|-----------------------------------------|----------------------------------------|--------------------------|-------------------------------|-----------------------------|
| Facebook and WhatsApp Ind. | 1.028*** (0.038)         | 0.282*** (0.051)              | 1.131*** (0.051)            | 0.490*** (0.017)                        | 0.419*** (0.019)                        | 0.831*** (0.043)         | 0.269*** (0.018)             | 0.320*** (0.019)             |
| WhatsApp Group         | 0.955*** (0.042)         | 0.178*** (0.055)              | 1.089*** (0.056)            | 0.517*** (0.018)                        | 0.433*** (0.021)                        | 0.685*** (0.047)         | 0.219*** (0.019)             | 0.260*** (0.020)             |
| TV Show Reminder       | 0.493*** (0.042)         | 0.153*** (0.055)              | 0.566*** (0.056)            | 0.279*** (0.018)                        | 0.237*** (0.021)                        | 0.349*** (0.047)         | 0.081*** (0.019)             | 0.107*** (0.020)             |

Control Mean 0 2.794 2.114 0.409 0.302 0.527 0.116 0.133
F, WI = WG (p-value) 0.0842 0.0589 0.4555 0.1309 0.5152 0.0018 0.0098 0.0033
F, WI = TV (p-value) 0 0.0195 0 0 0 0 0 0
WG = TV (p-value) 0 0.665 0 0 0 0 0 0
R² 0.247 0.148 0.208 0.270 0.191 0.168 0.134 0.136

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Social media videos received and WhatsApp videos received. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S17: Treatment effect on knowledge about treatment information

| Panel A: Controlling by all baseline covariates in the outcome family | Index of (1,1,1,1)知网 (other than ECWR) | 知网 ECWR | 知组织 (other than ECWR) | 知组织 ECWR |
|-------------------------------------------------|----------------|----------------|----------------|----------------|
| Facebook and WhatsApp Ind. | 0.227*** (0.037) | 0.057*** (0.018) | 0.045*** (0.010) | 0.066*** (0.018) | 0.046*** (0.011) |
| WhatsApp Group | 0.301*** (0.040) | 0.085*** (0.020) | 0.069*** (0.011) | 0.070*** (0.019) | 0.058*** (0.012) |
| TV Show Reminder | 0.122*** (0.040) | 0.037* (0.020) | 0.043*** (0.011) | –0.008 (0.019) | 0.029** (0.012) |

F, WI = WG (p-value) 0.0646 0.1615 0.0362 0.8324 0.3312
F, WI = TV (p-value) 0.0092 0.2886 0.8078 1e-04 0.1459
WG = TV (p-value) 0 0.016 0.0221 1e-04 0.0177
R² 0.222 0.237 0.092 0.216 0.075

| Panel B: Controlling by the dependent variable at baseline (if available) | Index of (1,1,1,1)知网 (other than ECWR) | 知网 ECWR | 知组织 (other than ECWR) | 知组织 ECWR |
|-------------------------------------------------|----------------|----------------|----------------|----------------|
| Facebook and WhatsApp Ind. | 0.221*** (0.038) | 0.054*** (0.018) | 0.045*** (0.010) | 0.067*** (0.018) | 0.047*** (0.011) |
| WhatsApp Group | 0.293*** (0.042) | 0.081*** (0.020) | 0.069*** (0.011) | 0.071*** (0.019) | 0.058*** (0.012) |
| TV Show Reminder | 0.116*** (0.042) | 0.031 (0.020) | 0.042*** (0.011) | –0.006 (0.019) | 0.030** (0.012) |

Control Mean 0 0.304 0.032 0.272 0.038
F, WI = WG (p-value) 0.0838 0.1608 0.0355 0.8608 0.3228
F, WI = TV (p-value) 0.0119 0.2573 0.8255 2e-04 0.1555
WG = TV (p-value) 0 0.0132 0.023 1e-04 0.0186
Observations 4,165 4,165 4,165 4,165 4,165
R² 0.160 0.225 0.090 0.203 0.070

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Know online: other than ECWR, Know online: ECWR, Before COVID-19 used online resources, During COVID-19 used online resources, Know organization: other than ECWR, Know organization: ECWR Before COVID-19 contacted organization, and During COVID-19 contacted organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
### Table S18: Treatment effects on attitudes towards gender and marital equality

#### Panel A: Controlling by all baseline covariates in the outcome family

|                      | Index of (-1, -1, 1, 1, -1, -1, 1, 1) | Husband final say | Husband earn income | Yelling justified | Gain independence by working outside the household | Circumcision important for women marriage | Female circumcision health benefits | Marriage permitted under age 18 with family consent | Khul: Women can divorce husband without a reason |
|----------------------|--------------------------------------|-------------------|----------------------|------------------|---------------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Facebook and WhatsApp Ind. | 0.023 (0.036)                         | 0.009 (0.035)     | -0.008 (0.036)       | -0.019 (0.036)   | 0.009 (0.035)                                      | -0.077** (0.037)                        | 0.019 (0.035)                        | 0.011 (0.035)                               | 0.018 (0.020)                                |
| WhatsApp Group       | 0.054 (0.039)                         | -0.021 (0.038)    | -0.027 (0.040)       | -0.025 (0.039)   | 0.030 (0.039)                                      | -0.014 (0.040)                         | 0.010 (0.017)                         | -0.012 (0.017)                              | 0.016 (0.022)                                |
| TV Show Reminder     | -0.019 (0.039)                        | -0.029 (0.038)    | 0.032 (0.040)        | 0.014 (0.039)    | -0.007 (0.040)                                     | 0.010 (0.017)                         | -0.0002 (0.017)                        | -0.032 (0.022)                              | 0.1692 (0.1692)                             |
| F, WI = WG (p-value) | 0.436                                | 0.4376            | 0.6197               | 0.8792           | 0.5857                                            | 0.1212                                 | 0.5901                                 | 0.1692                                      | 0.9158                                      |
| F, WI = TV (p-value) | 0.282                                | 0.325             | 0.3158               | 0.8256           | 0.9059                                            | 0.0843                                 | 0.605                                 | 0.5007                                      | 0.0254                                      |
| WG = TV (p-value)    | 0.0696                               | 0.8399            | 0.1424               | 0.7156           | 0.6756                                            | 0.865                                  | 0.9825                                 | 0.4912                                      | 0.0373                                      |
| R²                   | 0.306                                | 0.302             | 0.342                | 0.310            | 0.148                                             | 0.119                                  | 0.092                                 | 0.070                                       | 0.070                                       |

#### Panel B: Controlling by the dependent variable at baseline (if available)

|                      | Index of (-1, -1, 1, 1, -1, -1, 1, 1) | Husband final say | Husband earn income | Yelling justified | Gain independence by working outside the household | Circumcision important for women marriage | Female circumcision health benefits | Marriage permitted under age 18 with family consent | Khul: Women can divorce husband without a reason |
|----------------------|--------------------------------------|-------------------|----------------------|------------------|---------------------------------------------------|------------------------------------------|------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Facebook and WhatsApp Ind. | 0.020 (0.042)                         | 0.001 (0.035)     | -0.007 (0.037)       | -0.015 (0.036)   | 0.020 (0.037)                                      | -0.071* (0.038)                        | 0.018 (0.016)                         | 0.011 (0.016)                               | 0.016 (0.020)                                |
| WhatsApp Group       | 0.036 (0.046)                         | -0.024 (0.039)    | -0.018 (0.040)       | -0.017 (0.039)   | 0.027 (0.040)                                      | -0.012 (0.042)                         | 0.009 (0.018)                         | -0.011 (0.017)                              | 0.015 (0.022)                                |
| TV Show Reminder     | -0.005 (0.045)                        | -0.034 (0.038)    | 0.038 (0.040)        | 0.018 (0.039)    | -0.019 (0.040)                                     | 0.012 (0.042)                         | 0.003 (0.017)                         | -0.031 (0.022)                              | 0.1692 (0.1692)                             |
| F, WI = WG (p-value) | 0.7317                               | 0.5139            | 0.7982               | 0.955            | 0.8676                                            | 0.1563                                 | 0.6135                                 | 0.1938                                      | 0.9763                                      |
| F, WI = TV (p-value) | 0.3787                               | 0.3603            | 0.26                 | 0.847            | 0.9515                                            | 0.2086                                 | 0.7745                                 | 0.6157                                      | 0.0357                                      |
| WG = TV (p-value)    | 0.065                                | 0.7994            | 0.177                | 0.8075           | 0.8238                                            | 0.8729                                 | 0.8299                                 | 0.434                                       | 0.0432                                      |
| Observations         | 0.165                                | 0.4165            | 0.165                | 0.165            | 0.165                                             | 0.165                                 | 0.165                                  | 0.165                                       | 0.165                                       |
| R²                   | 0.062                                | 0.283             | 0.329                | 0.295            | 0.062                                             | 0.050                                  | 0.061                                 | 0.061                                       | 0.062                                       |

**Notes:** We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Husband final say, Husband earn income, Yelling justified, Hitting justified, Male education priority, Future equal say, and Future equal rights. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
### Table S19: Treatment effect on attitudes on sexual violence

#### Panel A: Controlling by all baseline covariates in the outcome family

|                          | Facebook and WhatsApp Ind. | WhatsApp Group | TV Show Reminder |
|--------------------------|----------------------------|----------------|------------------|
| index of (1,1,-1,1,1,-1,-1,-1) | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Colleague comments on female look | -0.011 | -0.023 | 0.011 | -0.027 | 0.066 | -0.042 | 0.007 | -0.052 | -0.019 |
| Sexual harassment legal consequences | (0.040) | (0.044) | (0.012) | (0.028) | (0.050) | (0.027) | (0.031) | (0.035) | (0.030) |
| Interfere if a man sexually harassed at workplace | 0.012 | -0.028 | 0.005 | -0.032 | 0.041 | 0.026 | 0.014 | -0.012 | 0.047 |
| (0.044) | (0.047) | (0.013) | (0.031) | (0.055) | (0.029) | (0.033) | (0.038) | (0.032) | |
| Inappropriate clothing or lack of Hijab justifies harassment | 0.064 | 0.011 | 0.011 | 0.032 | 0.012 | 0.029 | 0.052 | -0.051 | -0.004 |
| (0.044) | (0.047) | (0.013) | (0.031) | (0.055) | (0.029) | (0.033) | (0.038) | (0.032) | |

#### Panel B: Controlling by the dependent variable at baseline (if available)

|                          | Facebook and WhatsApp Ind. | WhatsApp Group | TV Show Reminder |
|--------------------------|----------------------------|----------------|------------------|
| index of (1,1,-1,1,1,-1,-1,-1) | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Colleague comments on female look | -0.018 | -0.028 | 0.010 | -0.027 | 0.074 | -0.046* | 0.006 | -0.047 | 0.016 |
| Sexual harassment legal consequences | (0.042) | (0.044) | (0.012) | (0.029) | (0.052) | (0.027) | (0.031) | (0.036) | (0.030) |
| Interfere if a man sexually harassed at workplace | 0.008 | -0.024 | 0.004 | -0.033 | 0.046 | 0.022 | 0.012 | -0.010 | 0.046 |
| (0.046) | (0.048) | (0.013) | (0.031) | (0.057) | (0.030) | (0.034) | (0.039) | (0.033) | |
| Inappropriate clothing or lack of Hijab justifies harassment | 0.072 | 0.017 | 0.010 | 0.033 | -0.004 | 0.030 | 0.051 | -0.060 | 0.004 |
| (0.046) | (0.047) | (0.013) | (0.031) | (0.056) | (0.030) | (0.034) | (0.039) | (0.032) | |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Husband final say, Husband earn income, Yelling justified, Hitting justified, Male education priority, Future equal say, and Future equal rights. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S20: Treatment effect on donation to organizations supporting women

|                          | Dependent variable: |     |     |     |
|--------------------------|----------------------|-----|-----|-----|
|                          | Index of (1,1) Donation in EGP | donating more than 0 EGP |
|                          | (1)                  | (2) | (3) |
| Facebook and WhatsApp Ind. | -0.009              | -0.121 | -0.0004 |
|                          | (0.042)             | (0.323) | (0.018) |
| WhatsApp Group           | -0.038              | -0.468 | -0.006 |
|                          | (0.045)             | (0.352) | (0.019) |
| TV Show Reminder         | -0.025              | -0.315 | -0.003 |
|                          | (0.045)             | (0.351) | (0.019) |
| Control Mean             | 0                   | 4.023 | 0.232 |
| F, WI = WG (p-value)     | 0.5158              | 0.326 | 0.7789 |
| F, WI = TV (p-value)     | 0.7166              | 0.5812 | 0.8777 |
| WG = TV (p-value)        | 0.7782              | 0.6724 | 0.9009 |
| Observations             | 4.165               | 4.165 | 4.165 |
| R²                       | 0.075               | 0.077 | 0.071 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S21: Treatment effect on hypothetical use of online resources and contact with an organization when responding to domestic violence

| Panel A: Controlling by all baseline covariates in the outcome family | Index of (1,1) | Would use online resources (2) | Would contact organization (3) |
|---------------------------------------------------------------|----------------|-----------------------------|-------------------------------|
| Facebook and WhatsApp Ind. | 0.079** (0.038) | 0.107** (0.050) | 0.062 (0.045) |
| WhatsApp Group | 0.100** (0.042) | 0.116** (0.054) | 0.095** (0.049) |
| TV Show Reminder | 0.101** (0.041) | 0.150*** (0.054) | 0.067 (0.049) |
| F, WI = WG (p-value) | 0.6181 | 0.8716 | 0.4896 |
| F, WI = TV (p-value) | 0.5928 | 0.4253 | 0.9082 |
| WG = TV (p-value) | 0.9725 | 0.5348 | 0.5728 |
| R² | 0.236 | 0.194 | 0.210 |

| Panel B: Controlling by the dependent variable at baseline (if available) | Index of (1,1) | Would use online resources (2) | Would contact organization (3) |
|---------------------------------------------------------------|----------------|-----------------------------|-------------------------------|
| Facebook and WhatsApp Ind. | 0.054 (0.042) | 0.096* (0.050) | 0.057 (0.045) |
| WhatsApp Group | 0.088* (0.046) | 0.111** (0.055) | 0.092* (0.049) |
| TV Show Reminder | 0.108** (0.045) | 0.153*** (0.055) | 0.066 (0.049) |
| Control Mean | 0 | 3.06 | 3.607 |
| F, WI = WG (p-value) | 0.4622 | 0.7833 | 0.4874 |
| F, WI = TV (p-value) | 0.2384 | 0.3005 | 0.8587 |
| WG = TV (p-value) | 0.6662 | 0.4582 | 0.6128 |
| Observations | 4,165 | 4,165 | 4,165 |
| R² | 0.080 | 0.179 | 0.198 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Would talk husband, Would talk family, would report authorities, Would use online resources, and Would contact organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S22: Treatment effect on hypothetical use of online resources and contact with an organization when responding to sexual violence

| Panel A: Controlling by all baseline covariates in the outcome family | Index of (1,1) | Would use online resources (2) | Would contact organization (3) |
|---|---|---|---|
| Facebook and WhatsApp Ind. | 0.112*** (0.039) | 0.128*** (0.047) | 0.100** (0.043) |
| WhatsApp Group | 0.123*** (0.043) | 0.161*** (0.051) | 0.092* (0.047) |
| TV Show Reminder | 0.036 (0.043) | 0.107** (0.051) | -0.028 (0.047) |
| F, WI = WG (p-value) | 0.7987 | 0.5227 | 0.8521 |
| F, WI = TV (p-value) | 0.0723 | 0.6878 | 0.0063 |
| WG = TV (p-value) | 0.0449 | 0.3085 | 0.0128 |
| R² | 0.197 | 0.179 | 0.174 |

| Panel B: Controlling by the dependent variable at baseline (if available) | Facebook and WhatsApp Ind. | WhatsApp Group | TV Show Reminder |
|---|---|---|---|
| | 0.092** (0.042) | 0.109** (0.050) | 0.077* (0.046) |
| | 0.113** (0.046) | 0.150*** (0.055) | 0.082* (0.050) |
| | 0.041 (0.046) | 0.110** (0.055) | -0.020 (0.049) |
| Control Mean | 0 | 3.322 | 3.802 |
| F, WI = WG (p-value) | 0.6436 | 0.4616 | 0.9299 |
| F, WI = TV (p-value) | 0.2676 | 0.9885 | 0.0488 |
| WG = TV (p-value) | 0.1247 | 0.4797 | 0.0444 |
| Observations | 4,165 | 4,165 | 4,165 |
| R² | 0.073 | 0.072 | 0.072 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Would talk husband, Would talk family, would report authorities, Would use online resources, and Would contact organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S23: Treatment effect on recent use of online resources and contact with an organization during COVID-19

### Panel A: Controlling by all baseline covariates in the outcome family

|                        | Index of (1,1) | Used online resources (1) | Contacted organization (2) |
|------------------------|----------------|---------------------------|----------------------------|
| Facebook and WhatsApp Ind. | 0.060*         | 0.077***                  | 0.015                      |
|                        | (0.031)        | (0.029)                   | (0.023)                    |
| WhatsApp Group         | 0.100***       | 0.060*                    | 0.069***                   |
|                        | (0.033)        | (0.032)                   | (0.025)                    |
| TV Show Reminder       | 0.089***       | 0.085***                  | 0.041                      |
|                        | (0.033)        | (0.032)                   | (0.025)                    |
| F, WI = WG (p-value)   | 0.2303         | 0.5987                    | 0.0305                     |
| F, WI = TV (p-value)   | 0.382          | 0.801                     | 0.3072                     |
| WG = TV (p-value)      | 0.7506         | 0.4464                    | 0.264                      |
| R²                     | 0.466          | 0.518                     | 0.270                      |

### Panel B: Controlling by the dependent variable at baseline (if available)

|                        | Index of (1,1) | Used online resources (1) | Contacted organization (2) |
|------------------------|----------------|---------------------------|----------------------------|
| Facebook and WhatsApp Ind. | 0.055*         | 0.069**                   | 0.021                      |
|                        | (0.032)        | (0.029)                   | (0.023)                    |
| WhatsApp Group         | 0.107***       | 0.057*                    | 0.076***                   |
|                        | (0.034)        | (0.032)                   | (0.025)                    |
| TV Show Reminder       | 0.103***       | 0.087***                  | 0.049*                     |
|                        | (0.034)        | (0.032)                   | (0.025)                    |
| Control Mean           | 0              | 1.355                     | 1.118                      |
| F, WI = WG (p-value)   | 0.1241         | 0.7237                    | 0.0266                     |
| F, WI = TV (p-value)   | 0.1574         | 0.5701                    | 0.2631                     |
| WG = TV (p-value)      | 0.9033         | 0.3679                    | 0.283                      |
| Observations           | 4,165          | 4,165                     | 4,165                      |
| R²                     | 0.432          | 0.510                     | 0.260                      |

**Notes:** We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Know online: other than ECWR, Know online: ECWR, Before COVID-19 used online resources, During COVID-19 used online resources, Know organization: other than ECWR, Know organization: ECWR, Before COVID-19 contacted organization, and During COVID-19 contacted organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S24: Treatment effect on views on women’s future outlook toward gender and marital equality

| Panel A: Controlling by all baseline covariates in the outcome family | Index of (1,1) | Future equal say (2) | Future equal rights (3) |
|-------------------------|----------------|----------------------|------------------------|
| Facebook and WhatsApp Ind. | 0.136*** | 0.101*** | 0.097*** |
|                         | (0.037) | (0.032) | (0.030) |
| WhatsApp Group          | 0.042 | 0.054 | 0.009 |
|                         | (0.040) | (0.035) | (0.033) |
| TV Show Reminder        | 0.100** | 0.094*** | 0.052 |
|                         | (0.040) | (0.035) | (0.033) |
| F, WI = WG (p-value)    | 0.0195 | 0.1763 | 0.0077 |
| F, WI = TV (p-value)    | 0.3664 | 0.8439 | 0.1771 |
| WG = TV (p-value)       | 0.1598 | 0.2575 | 0.196 |
| R²                      | 0.281 | 0.259 | 0.229 |

| Panel B: Controlling by the dependent variable at baseline (if available) | Index of (1,1) | Future equal say (2) | Future equal rights (3) |
|-------------------------|----------------|----------------------|------------------------|
| Facebook and WhatsApp Ind. | 0.153*** | 0.092*** | 0.102*** |
|                         | (0.042) | (0.033) | (0.030) |
| WhatsApp Group          | 0.024 | 0.046 | 0.009 |
|                         | (0.046) | (0.036) | (0.033) |
| TV Show Reminder        | 0.083* | 0.089** | 0.054 |
|                         | (0.046) | (0.036) | (0.033) |
| Control Mean            | 0 | 4.064 | 4.244 |
| F, WI = WG (p-value)    | 0.0053 | 0.2005 | 0.0045 |
| F, WI = TV (p-value)    | 0.1289 | 0.945 | 0.1386 |
| WG = TV (p-value)       | 0.2112 | 0.2353 | 0.1812 |
| Observations            | 4,165 | 4,165 | 4,165 |
| R²                      | 0.061 | 0.228 | 0.218 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Husband final say, Husband earn income, Yelling justified, Hitting justified, Male education priority, Future equal say, and Future equal rights. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S25: Treatment effect on domestic and sexual violence experienced during COVID-19

Panel A: Controlling by all baseline covariates in the outcome family

| Index of | Heard of or | Heard of or | Heard of or |
|----------|-------------|-------------|-------------|
| (1,1,1)  | experienced yelling | experienced hitting | experienced sexual abuse |
| (1) | (2) | (3) | (4) |
| **Facebook and WhatsApp Ind.** | | | |
| 0.029 | 0.049 | 0.054 | -0.002 |
| (0.035) | (0.048) | (0.050) | (0.055) |
| **WhatsApp Group** | | | |
| 0.009 | 0.016 | 0.015 | -0.003 |
| (0.039) | (0.052) | (0.055) | (0.059) |
| **TV Show Reminder** | | | |
| 0.039 | 0.043 | 0.070 | 0.025 |
| (0.038) | (0.052) | (0.054) | (0.059) |
| **F, WI = WG (p-value)** | 0.6099 | 0.5216 | 0.4701 | 0.9831 |
| **F, WI = TV (p-value)** | 0.7835 | 0.9068 | 0.7703 | 0.6469 |
| **WG = TV (p-value)** | 0.4419 | 0.6078 | 0.3204 | 0.6396 |
| **R^2** | 0.337 | 0.294 | 0.317 | 0.279 |

Panel B: Controlling by the dependent variable at baseline (if available)

| **Facebook and WhatsApp Ind.** | | | |
| 0.050 | 0.067 | 0.068 | 0.026 |
| (0.041) | (0.049) | (0.051) | (0.059) |
| **WhatsApp Group** | | | |
| 0.009 | 0.019 | 0.027 | -0.002 |
| (0.044) | (0.053) | (0.055) | (0.065) |
| **TV Show Reminder** | | | |
| 0.045 | 0.056 | 0.072 | 0.039 |
| (0.044) | (0.053) | (0.055) | (0.064) |
| **Control Mean** | 0 | 3.459 | 3.111 | 2.719 |
| **F, WI = WG (p-value)** | 0.3474 | 0.3732 | 0.4634 | 0.6675 |
| **F, WI = TV (p-value)** | 0.8986 | 0.8385 | 0.9427 | 0.8383 |
| **WG = TV (p-value)** | 0.4259 | 0.5012 | 0.4303 | 0.5353 |
| **Observations** | 4.165 | 4.165 | 4.165 | 4.165 |
| **R^2** | 0.129 | 0.264 | 0.295 | 0.142 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Before COVID-19 heard of or experienced yelling, Before COVID-19 heard of or experienced hitting, During COVID-19 heard of or experienced yelling, and During COVID-19 heard of or experienced hitting. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
### Panel A: Controlling by all baseline covariates in the outcome family

|                          | Index of (1,1,1) | Heard of or experienced yelling | Heard of or experienced hitting | Heard of or experienced sexual abuse |
|--------------------------|------------------|---------------------------------|----------------------------------|-------------------------------------|
|                          | (1)              | (2)                             | (3)                              | (4)                                 |
| Facebook and WhatsApp Ind. | -0.084** (0.035) | -0.157*** (0.045)               | -0.085* (0.048)                  | -0.040 (0.054)                      |
| WhatsApp Group           | -0.045 (0.038)   | -0.074 (0.049)                  | -0.071 (0.053)                   | -0.004 (0.059)                      |
| TV Show Reminder         | -0.029 (0.038)   | -0.042 (0.049)                  | -0.036 (0.053)                   | -0.017 (0.059)                      |

| F, WI = WG (p-value)    | 0.3048           | 0.0933                          | 0.8029                           | 0.5391                              |
| F, WI = TV (p-value)    | 0.1458           | 0.0198                          | 0.3569                           | 0.6945                              |
| WG = TV (p-value)       | 0.6774           | 0.5266                          | 0.512                            | 0.8275                              |
| R²                      | 0.362            | 0.322                           | 0.324                            | 0.263                               |

### Panel B: Controlling by the dependent variable at baseline (if available)

|                          | Index of (1,1,1) | Heard of or experienced yelling | Heard of or experienced hitting | Heard of or experienced sexual abuse |
|--------------------------|------------------|---------------------------------|----------------------------------|-------------------------------------|
|                          | (1)              | (2)                             | (3)                              | (4)                                 |
| Facebook and WhatsApp Ind. | -0.057 (0.040)  | -0.142*** (0.046)              | -0.100** (0.049)                  | -0.012 (0.058)                      |
| WhatsApp Group           | -0.036 (0.044)   | -0.073 (0.050)                  | -0.082 (0.053)                   | 0.001 (0.063)                       |
| TV Show Reminder         | -0.015 (0.044)   | -0.039 (0.050)                  | -0.040 (0.053)                   | -0.003 (0.063)                      |

| Control Mean             | 0                | 3.619                           | 3.242                            | 2.758                               |
| F, WI = WG (p-value)    | 0.6436           | 0.1737                          | 0.7278                           | 0.8443                              |
| F, WI = TV (p-value)    | 0.3476           | 0.0404                          | 0.2545                           | 0.8859                              |
| WG = TV (p-value)       | 0.6423           | 0.5029                          | 0.4397                           | 0.9584                              |
| Observations            | 4.165            | 4.165                           | 4.165                            | 4.165                               |
| R²                      | 0.139            | 0.290                           | 0.303                            | 0.141                               |

**Notes:** We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Before COVID-19 heard of or experienced yelling, Before COVID-19 heard of or experienced hitting, During COVID-19 heard of or experienced yelling, and During COVID-19 heard of or experienced hitting. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S27: Treatment effect of hypothetical talking to husband and family members, or reporting to authorities when responding to domestic violence

### Panel A: Controlling by all baseline covariates in the outcome family

| Index of | Would talk husband | Would talk family | Would report authorities |
|----------|--------------------|-------------------|-------------------------|
| (1,1,1)  | (1)                | (2)               | (3)                     | (4)                     |
| Facebook and WhatsApp Ind. | −0.035 (0.040) | −0.025 (0.042) | −0.032 (0.041) | −0.010 (0.048) |
| WhatsApp Group | −0.043 (0.043) | −0.071 (0.046) | −0.049 (0.044) | 0.045 (0.052) |
| TV Show Reminder | −0.053 (0.043) | −0.086* (0.046) | −0.064 (0.044) | 0.057 (0.052) |

\[ F, WI = WG (p-value) \] 0.847 0.3186 0.6996 0.2987

\[ F, WI = TV (p-value) \] 0.6689 0.182 0.4767 0.1992

\[ WG = TV (p-value) \] 0.8188 0.7432 0.7508 0.8127

\[ R^2 \] 0.168 0.290 0.176 0.284

### Panel B: Controlling by the dependent variable at baseline (if available)

| Facebook and WhatsApp Ind. | −0.032 (0.042) | −0.016 (0.042) | −0.030 (0.041) | −0.012 (0.048) |
| WhatsApp Group | −0.048 (0.046) | −0.065 (0.046) | −0.050 (0.044) | 0.051 (0.053) |
| TV Show Reminder | −0.062 (0.046) | −0.086* (0.046) | −0.066 (0.044) | 0.068 (0.052) |

Control Mean 0 3.954 3.919 2.828

\[ F, WI = WG (p-value) \] 0.7321 0.2904 0.6557 0.2325

\[ F, WI = TV (p-value) \] 0.5194 0.1296 0.4112 0.1265

\[ WG = TV (p-value) \] 0.7688 0.6561 0.7144 0.7464

Observations 4,165 4,165 4,165 4,165

\[ R^2 \] 0.053 0.276 0.174 0.272

**Notes:** We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Would talk husband, Would talk family, would report authorities, Would use online resources, and Would contact organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S28: Treatment effect of hypothetical talking to family members or reporting to authorities when responding to sexual violence

| Panel A: Controlling by all baseline covariates in the outcome family |
|---------------------------------------------------------------|
| Index of (1,1) | Would talk family (2) | Would report authorities (3) |
| Facebook and WhatsApp Ind. | 0.003 | 0.053 | -0.054 |
| | (0.041) | (0.042) | (0.048) |
| WhatsApp Group | -0.048 | -0.011 | -0.072 |
| | (0.045) | (0.045) | (0.052) |
| TV Show Reminder | 0.018 | 0.033 | -0.006 |
| | (0.045) | (0.045) | (0.052) |
| F, WI = WG (p-value) | 0.2526 | 0.1578 | 0.7286 |
| F, WI = TV (p-value) | 0.7423 | 0.6659 | 0.3498 |
| WG = TV (p-value) | 0.1495 | 0.3364 | 0.2101 |
| R² | 0.110 | 0.123 | 0.115 |

| Panel B: Controlling by the dependent variable at baseline (if available) |
|---------------------------------------------------------------|
| Facebook and WhatsApp Ind. | 0.0002 | 0.061 | -0.069 |
| | (0.042) | (0.043) | (0.049) |
| WhatsApp Group | -0.050 | -0.010 | -0.076 |
| | (0.046) | (0.046) | (0.053) |
| TV Show Reminder | 0.019 | 0.028 | 0.002 |
| | (0.046) | (0.046) | (0.053) |
| Control Mean | 0 | 4.061 | 3.999 |
| F, WI = WG (p-value) | 0.2791 | 0.1263 | 0.895 |
| F, WI = TV (p-value) | 0.684 | 0.4763 | 0.1843 |
| WG = TV (p-value) | 0.1451 | 0.4228 | 0.154 |
| Observations | 4,165 | 4,165 | 4,165 |
| R² | 0.065 | 0.075 | 0.059 |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Would talk husband, Would talk family, would report authorities, Would use online resources, and Would contact organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S29: Treatment effects on recent use of online resources and contact with an organization when responding to domestic and sexual violence before COVID-19

Panel A: Controlling by all baseline covariates in the outcome family

|                       | Index of (1,1) | Used online resources | Contacted organization |
|-----------------------|----------------|-----------------------|------------------------|
| Facebook and WhatsApp Ind. | 0.018 (0.031) | 0.037 (0.027)         | −0.005 (0.022)         |
| WhatsApp Group        | 0.033 (0.034) | 0.018 (0.030)         | 0.023 (0.024)          |
| TV Show Reminder      | 0.029 (0.034) | 0.025 (0.030)         | 0.013 (0.024)          |
| F, WI = WG (p-value)  | 0.6708         | 0.5173                | 0.244                  |
| F, WI = TV (p-value)  | 0.7616         | 0.6839                | 0.4589                 |
| WG = TV (p-value)     | 0.9055         | 0.8135                | 0.6787                 |
| R²                    | 0.468          | 0.497                 | 0.295                  |

Panel B: Controlling by the dependent variable at baseline (if available)

|                       | Index of (1,1) | Used online resources | Contacted organization |
|-----------------------|----------------|-----------------------|------------------------|
| Facebook and WhatsApp Ind. | 0.005 (0.032) | 0.035 (0.028)         | −0.012 (0.022)         |
| WhatsApp Group        | 0.036 (0.035) | 0.016 (0.030)         | 0.020 (0.024)          |
| TV Show Reminder      | 0.043 (0.035) | 0.027 (0.030)         | 0.011 (0.024)          |
| Control Mean          | 0              | 1.342                 | 1.138                  |
| F, WI = WG (p-value)  | 0.3732         | 0.528                 | 0.175                  |
| F, WI = TV (p-value)  | 0.2684         | 0.8101                | 0.3251                 |
| WG = TV (p-value)     | 0.8326         | 0.7017                | 0.7165                 |
| Observations          | 4.165          | 4.165                 | 4.165                  |
| R²                    | 0.424          | 0.489                 | 0.280                  |

Notes: We report estimates from WGLS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. Regressions in Panel A include controls for all baseline covariates in the outcome family: Know online: other than ECWR, Know online: ECWR, Before COVID-19 used online resources, During COVID-19 used online resources, Know organization: other than ECWR, Know organization: ECWR Before COVID-19 contacted organization, and During COVID-19 contacted organization. Regressions in Panel B include the dependent variable at baseline (if available) as a control. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S30: Endline survey questions used to create all outcome indices.

| Treatment Consumption and Knowledge of Resources | TV show consumption | Social media campaign consumption | Knowledge about resources |
|--------------------------------------------------|---------------------|-----------------------------------|--------------------------|
| Husband should have final say in all decisions concerning the family, earn income<br>Yelling justified<br>Women should not gain independence by working outside the household<br>FGC is important for marriage, and carries health benefits<br>Marriage under age 18 should be permitted with family consent<br>Women should be able to divorce husband without a reason | Watched TV at show’s time, TV show channels, TV show type<br>Watched TV show, Heard of TV show; prompted and unprompted<br>Whether watched TV show episodes, and how many<br>Accurate recall of content and topics of TV show | Watched videos of women’s empowerment on social media, WhatsApp<br>Received and watched videos on WhatsApp or Facebook, and how many<br>Accurate recall of content and topics of videos | Knowledge about online resources<br>Knowledge about organizations |

| Attitudes toward Gender and Marital Equality | Attitudes toward Sexual Harassment and Violence |
|---------------------------------------------|----------------------------------------------|
| College comments on female look is sexual harassment<br>Verbal harassment has legal consequences<br>Support a woman sexually harassed at workplace, street, or hit on street<br>Inappropriate clothing or lack of Hijab justifies harassment<br>One should avoid the authorities if daughter sexually assaulted<br>If a child shares that they were sexually harassed by a relative, they should be taken seriously | Colleague comments on female look is sexual harassment<br>Verbal harassment has legal consequences<br>Support a woman sexually harassed at workplace, street, or hit on street<br>Inappropriate clothing or lack of Hijab justifies harassment<br>One should avoid the authorities if daughter sexually assaulted<br>If a child shares that they were sexually harassed by a relative, they should be taken seriously |

| Donation to organization supporting women | Donation to organization supporting women |
|------------------------------------------|------------------------------------------|
| Domestic and sexual violence exposure | Heard of or experienced yelling, hitting, sexual abuse |
| Hypothetical behavior around domestic violence | Would recommend using online resources, contacting an organization |
| Hypothetical behavior around sexual violence | Would recommend using online resources, contacting an organization |
| Recent behavior in response to domestic violence, sexual harassment or assault | Recent use of online resources for affected women by domestic violence, or who faced sexual harassment or assault<br>Recent contact with organizations supporting affected women |

| Future Outlook Toward Gender and Marital Equality | In the future, will women have an equal say with their husbands in all decisions concerning the family?<br>In the future, will men and women in Egypt have more equal legal rights, access to education, and economic opportunities? |
Table S31: Summary statistics of comparable demographics both in the Arab Barometer sample, the Arab Barometer internet user sample, and the experimental sample

| Variable                  | Arab Barometer sample | Arab Barometer internet user sample | Experimental sample | Arab Barometer survey years |
|---------------------------|-----------------------|-------------------------------------|---------------------|-----------------------------|
| Age                       | 38.457                | 30.238                              | 31.598              | 2016, 2018                  |
|                           | 13.930                | 10.440                              | 9.137               |                             |
|                           | 1826                  | 792                                 | 4165                |                             |
| Education                 | 3.352                 | 4.701                               | 5.344               | 2016, 2018                  |
|                           | 1.768                 | 1.225                               | 1.179               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Whether single            | 0.176                 | 0.341                               | 0.290               | 2016, 2018                  |
|                           | 0.381                 | 0.475                               | 0.454               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Whether engaged           | 0.053                 | 0.114                               | 0.044               | 2016, 2018                  |
|                           | 0.225                 | 0.318                               | 0.205               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Whether married           | 0.606                 | 0.479                               | 0.570               | 2016, 2018                  |
|                           | 0.489                 | 0.500                               | 0.495               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Whether separated         | 0.047                 | 0.047                               | 0.081               | 2016, 2018                  |
|                           | 0.211                 | 0.213                               | 0.272               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Whether widowed           | 0.118                 | 0.019                               | 0.016               | 2016, 2018                  |
|                           | 0.322                 | 0.137                               | 0.124               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Relationship status       | 3.911                 | 2.992                               | 3.253               | 2016, 2018                  |
|                           | 3.049                 | 1.565                               | 1.556               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Number of children        | 1.090                 | 0.916                               | 1.274               | 2016, 2018                  |
|                           | 1.376                 | 1.235                               | 1.327               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Facebook                  | 0.372                 | 0.877                               | 0.884               | 2016, 2018                  |
|                           | 0.484                 | 0.328                               | 0.321               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| WhatsApp                  | 0.303                 | 0.648                               | 0.857               | 2018                        |
|                           | 0.460                 | 0.478                               | 0.351               |                             |
|                           | 1200                  | 598                                 | 4165                |                             |
| YouTube                   | 0.220                 | 0.471                               | 0.387               | 2018                        |
|                           | 0.415                 | 0.500                               | 0.487               |                             |
|                           | 1200                  | 598                                 | 4165                |                             |
| Instagram                 | 0.117                 | 0.276                               | 0.199               | 2016, 2018                  |
|                           | 0.321                 | 0.447                               | 0.399               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Twitter                   | 0.111                 | 0.262                               | 0.080               | 2016, 2018                  |
|                           | 0.315                 | 0.440                               | 0.272               |                             |
|                           | 1861                  | 801                                 | 4165                |                             |
| Snapchat                  | 0.040                 | 0.085                               | 0.043               | 2018                        |
|                           | 0.195                 | 0.279                               | 0.203               |                             |
|                           | 1200                  | 598                                 | 4165                |                             |
| Hours spent on social media| 1.747                 | 2.595                               | 2.879               | 2018                        |
|                           | 0.942                 | 0.737                               | 0.896               |                             |
|                           | 1200                  | 598                                 | 4165                |                             |

Notes: For every variable, each row shows the mean, standard deviation, and number of observations.
Table S32: Summary statistics of comparable outcomes both in the Arab Barometer sample, the Arab Barometer internet user sample, and the experimental sample

|                                | Arab Barometer sample | Arab Barometer internet user sample | Experimental sample | Arab Barometer survey years |
|--------------------------------|-----------------------|-------------------------------------|---------------------|----------------------------|
| Husband final say              | 2.642                 | 2.972                               | 3.344               | 2016, 2018                 |
|                                | 1.431                 | 1.517                               | 1.020               |                            |
|                                | 1857                  | 801                                 | 4165                |                            |
| Prioritize the education of men| 4.024                 | 4.368                               | 4.575               | 2016, 2018                 |
|                                | 1.230                 | 0.997                               | 0.746               |                            |
|                                | 1848                  | 801                                 | 4165                |                            |
| Support from a relative        | 0.629                 | 0.591                               | 0.845               | 2018                       |
|                                | 0.486                 | 0.496                               | 0.362               |                            |
|                                | 133                   | 79                                  | 4165                |                            |
| Support from local police/authority | 0.251              | 0.288                               | 0.259               | 2018                       |
|                                | 0.436                 | 0.457                               | 0.438               |                            |
|                                | 133                   | 79                                  | 4165                |                            |
| Support from organization      | 0.017                 | 0.038                               | 0.455               | 2018                       |
|                                | 0.129                 | 0.194                               | 0.498               |                            |
|                                | 133                   | 79                                  | 4165                |                            |
| Experienced violence           | 0.093                 | 0.083                               | 0.891               | 2018                       |
|                                | 0.290                 | 0.276                               | 0.311               |                            |
|                                | 1200                  | 598                                 | 4165                |                            |

Notes: For every variable, each row shows the mean, standard deviation, and number of observations. The "Support from" variables differ in both surveys: the Arab Barometer survey asked whether respondents thought that a family member who was abused would be able to receive assistance from each of the actors, and our survey asked whether respondents would recommend a friend or family member who was abused to reach each of the actors. (2) The "Experienced violence" variable differs in both surveys: the Arab Barometer survey asked if in the last twelve months a female member of the household was abused by another member, and our survey asked whether, in the month before the COVID-19 pandemic, they heard of someone or themselves experienced being hit by a man.
Table S33: Heterogeneous effects in main outcomes by baseline indexes on attitudes towards gender and marital equality (Attitudes), domestic violence experienced during COVID-19 (Experienced violence), knowledge on treatment information (Resource knowledge), hypothetical use of online resources and contact with an organization when responding to domestic violence (Hypothetical use and contact), and recent use of online resources and contact with an organization variables (Recent use and contact) and attitudes towards gender equality (Index of attitudes toward gender equality).

| Dependent variable: | Index of TV show consumption | Index of video of women’s empowerment and support consumption | Index of knowledge about treatment information | Index of attitudes toward gender and marital equality | Index of attitudes on sexual violence | Index of donation to organizations supporting women | Index of domestic and sexual violence experienced during COVID-19 | Index of hypothetical use of online resources and contact with an organization when responding to domestic violence | Index of hypothetical use of online resources and contact with an organization when responding to sexual violence | Index of recent use of online resources and contact with an organization when responding to gender and marital equality | Index of views on women’s future outlook toward gender and marital equality |
|---------------------|------------------------------|-------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|
| Facebook and WhatsApp Ind. | 0.155** (0.037) | 1.031** (0.037) | 0.229** (0.037) | 0.022 | −0.007 | −0.004 | 0.030 | 0.080** | 0.115*** (0.039) | 0.081*** (0.039) | 0.155*** (0.037) | 0.090 (0.037) |
| WhatsApp Group | 0.187** (0.041) | 0.935** (0.040) | 0.308** (0.040) | 0.054 | 0.011 | −0.036 | 0.009 | 0.099** | 0.126*** (0.043) | 0.104*** (0.043) | 0.037 (0.040) |
| TV Show Reminder | 0.869*** (0.041) | 0.475*** (0.040) | 0.126*** (0.040) | −0.021 | 0.060 | −0.030 | 0.044 | 0.108** | 0.038 | 0.103*** (0.042) | 0.097** (0.042) |
| Attitudes x FB and WI | −0.042 (0.038) | 0.017 (0.037) | 0.043 (0.036) | −0.063* | 0.038 | −0.004 | −0.108** | −0.046 | −0.045 | −0.017 | −0.040 (0.037) |
| Attitudes x WG | −0.026 (0.041) | 0.022 (0.040) | 0.066 (0.040) | 0.001 | −0.095** | −0.019 | −0.006 | −0.041 | −0.077* | 0.013 & 0.002 (0.043) |
| Attitudes x TV | −0.062 (0.041) | −0.064 (0.041) | 0.012 (0.040) | −0.007 | 0.027 | −0.082* | −0.046 | −0.057 | −0.045 | 0.067** (0.043) |
| Experienced violence x FB and WI | 0.045 (0.036) | −0.007 (0.038) | 0.002 (0.038) | 0.032 | −0.021 | −0.001 | −0.008 | 0.032 | −0.024 | 0.012 | 0.101*** (0.039) |
| Experienced violence x WG | 0.058 (0.041) | −0.032 (0.041) | 0.008 (0.040) | 0.020 | 0.003 | 0.037 | −0.035 | 0.013 | 0.045 | −0.044 | −0.037 (0.039) |
| Experienced violence x TV | 0.105** (0.041) | 0.038 (0.041) | −0.025 (0.041) | −0.053 | −0.076* | 0.004 | 0.044 | −0.002 | 0.062 | 0.048 | −0.019 (0.046) |
| Resource knowledge x FB and WI | −0.055 (0.039) | −0.059 (0.039) | 0.014 (0.038) | 0.003 | 0.026 | 0.031 | 0.033 | 0.044 | 0.019 | 0.021 | 0.030 (0.041) |
| Resource knowledge x WG | −0.039 (0.045) | −0.071 (0.045) | 0.105** (0.044) | 0.009 | 0.048 | 0.005 | 0.022 | 0.070 | 0.055 | −0.011 | 0.005 (0.043) |
| Resource knowledge x TV | −0.018 (0.045) | −0.030 (0.045) | 0.115*** (0.044) | 0.051 | 0.032 | −0.002 | 0.054 | 0.050 | −0.012 | −0.012 | −0.008 (0.043) |
| Hypothetical use and contact x FB and WI | 0.019 (0.038) | −0.023 (0.038) | −0.086* | 0.097** | 0.012 | −0.005 | −0.003 | −0.061 | −0.049 | 0.001 | −0.024 (0.037) |
| Hypothetical use and contact x WG | 0.003 (0.042) | −0.038 (0.042) | −0.042 (0.041) | 0.012 | −0.005 | −0.022 | −0.001 | −0.049* | −0.075* | −0.009 | −0.042 (0.043) |
| Hypothetical use and contact x TV | 0.113*** (0.043) | 0.065 (0.043) | 0.046 (0.043) | 0.069* | 0.030 | 0.001 | 0.029 | 0.029 | 0.060 | 0.0001 | 0.064 (0.045) |
| Recent use and contact x FB and WI | 0.075* (0.041) | −0.012 (0.041) | −0.042 (0.040) | −0.106*** | −0.049 | −0.013 | −0.010 | 0.001 | 0.015 | 0.073** | 0.013 (0.043) |
| Recent use and contact x WG | 0.019 (0.044) | −0.029 (0.044) | −0.035 (0.043) | −0.009 | −0.012 | −0.066 | 0.036 | 0.042 | 0.032 | 0.114*** | 0.011 (0.044) |
| Recent use and contact x TV | 0.065 (0.044) | −0.050 (0.044) | −0.071 (0.044) | −0.042 | −0.060 | −0.063 | −0.032 | −0.005 | −0.050 | 0.123*** | 0.019 (0.045) |

Notes: We report estimates from WELS regressions where the weights are in the inverse probability of treatment assignment, including randomization block fixed effects. All regressions include controls for all baseline covariates in the outcome family as stated in their corresponding Tables from Table S13 to Table S23. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.
Table S34: Heterogeneous effects on main outcomes by comparable variables with the Arab Barometer sample

| Independent variable | Facebook and WhatsApp Ind. | Facebook and WhatsApp Group | TV Show Reminder | Age x FB and WI | Age x WG | Education above BA x TV | Social media hours x TV | Male education priority x FB and WI | Education above BA x WG | Number of children x TV | Number of children x WG | Number of children x TV | Married x FB and WI | Married x WG | Married x TV | Social media use x TV | Social media use x WG | Social media use x TV | Social media hours x FB and WI | Social media hours x WG | Social media hours x TV | Husband final say x FB and WI | Husband final say x WG | Husband final say x TV | Male education priority x FB and WI | Male education priority x TV | Seek support x FB and WI | Seek support x WG | Seek support x TV | Experienced violence x FB and WI | Experienced violence x WG | Experienced violence x TV | Observations |
|----------------------|---------------------------|-----------------------------|-----------------|----------------|---------|------------------------|------------------------|---------------------------|------------------------|------------------|------------------|------------------|------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|-------------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                      | 0.152*** (0.037)          | 0.106*** (0.023)            | 0.229*** (0.049) | 0.022          | -0.002  | -0.002                 | 0.034                  | 0.034                     | 0.083**               | 0.115*** (0.028) | 0.122*** (0.024) | 0.099**          | 0.129*** (0.022) | 0.099**          | 0.107                | 0.086*                 | 0.094**          | 0.105*               | 0.086**          | 0.112*** (0.024) | 0.099**          | 0.107*               | 0.112*** (0.024) | 0.099**          | 0.107*               | 0.112*** (0.024) | 0.099**          | 0.107*               | 0.112*** (0.024) | 0.099**          | 0.107*               | 0.112*** (0.024) | 0.099**          | 0.107*               | 0.112*** (0.024) |
|                      |                           |                             |                 |               |         |                       |                        |                           |                        |                  |                  |                  |                  |                  |                     |                        |                           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      |                           |                             |                 |               |         |                       |                        |                           |                        |                  |                  |                  |                  |                  |                     |                        |                           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| Notes:               | We report estimates from WGLS regressions where the weights are the inverse probability of treatment assignment, including randomization block fixed effects. All regressions include controls for all baseline covariates in the outcome family as stated in their corresponding Tables from Table S13 to Table S23. * denotes p<0.1, ** denotes p<0.05, and *** denotes p<0.01.