

Supplementary File 5 – List of ongoing studies

Full Reference	Study/Interv. Name (<i>theory?</i>)	Design	Population	Country	Delivery mode	Outcomes* (assessment timepoints)
AMPT, F. H., MUDOGO, C., GICHANGI, P., LIM, M. S. C., MANGURO, G., CHERSICH, M., JAOKO, W., TEMMERMAN, M., LAINI, M., COMRIE-THOMSON, L., STOOVE, M., AGIUS, P. A., HELLARD, M., L'ENGLE, K. & LUCHTERS, S. 2017. WHISPER or SHOUT study: protocol of a cluster-randomised controlled trial assessing mHealth sexual reproductive health and nutrition interventions among female sex workers in Mombasa, Kenya. <i>BMJ Open</i> , 7, e017388.	WHISPER or SHOUT study (<i>theory-based</i>)	Cluster RCT, 2-arm	Female sex workers	Kenya	SMS, incl. 'push' and 'pull' messages	HIV and Syphilis incidence, measured by point-of-care testing; condom use (dual method); SRH knowledge (6, 12 m)
BIELLO, K. B., MARROW, E., MIMIAGA, M. J., SULLIVAN, P., HIGHTOW-WEIDMAN, L. & MAYER, K. H. 2019. A Mobile-Based App (MyChoices) to Increase Uptake of HIV Testing and Pre-Exposure Prophylaxis by Young Men Who Have Sex With Men: Protocol for a Pilot Randomized Controlled Trial. <i>JMIR Research Protocols</i> , 8, e10694.	MyChoices (<i>theory-based</i>)	Pilot RCT, 2-arm	Young MSM	USA	Mobile-based app, incl. notifications to get tested if in the vicinity of a testing location	Preliminary efficacy: condom use, HIV testing, STI testing history, self-efficacy, peer-norms, stigma (3, 6 m)
BRODY, C., TUOT, S., CHHOUN, P., SWENDEMAN, D., KAPLAN, K. C. & YI, S. 2018. Mobile Link - a theory-based messaging intervention for improving sexual and reproductive health of female entertainment workers in Cambodia: study protocol of a randomized controlled trial. <i>Trials [Electronic Resource]</i> , 19, 235.	Mobile Link (<i>theory-based</i>)	RCT, 2-arm	Female entertainment workers	Cambodia	Mobile phone-based text/voice messaging	Self-reported STI occurrence and HIV status; condom use; HIV testing; STI screening if symptoms and treatment, SRH knowledge, (6, 12 m)
CHICTR-IOR-15006724 2015. A study of strategy and mechanism of intervention to the men who have sex with men based on a mobile phone application.	n/a	RCT, 2-arm	MSM	China	Mobile phone-based app (only limited info on app available)	HIV/STD infection rate (unclear if self-reported or objectively confirmed); condom use; HIV testing; cost-effectiveness; (timepoint not indicated)

GLASNER-EDWARDS, S., PATRICK, K., YBARRA, M. L., REBACK, C. J., RAWSON, R. A., CHOKRON GARNEAU, H., CHAVEZ, K. & VENEGAS, A. 2016. A Cognitive Behavioral Therapy-Based Text Messaging Intervention Versus Medical Management for HIV-Infected Substance Users: Study Protocol for a Pilot Randomized Trial. <i>JMIR Research Protocols</i> , 5, e131.	n/a (theory-based)	Pilot RCT	HIV-positive persons with substance abuse disorders	USA	Blended SMS (SMS plus face-to-face counselling session)	HIV risk behaviour/ Reback Behavioral Risk Assessment (12 wk, 24 wk)
ISRCTN 2016. A randomised controlled trial of a safer sex intervention delivered through mobile phone messaging. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ISRCTN64390461 . [Published after search date, but linked: FREE, C., O. L. MCCARTHY, M. J. PALMER, R. KNIGHT, P. EDWARDS, R. FRENCH, P. BARAITSER, F. C. I. HICKSON, K. WELLINGS, I. ROBERTS, J. V. BAILEY, G. HART, S. MICHIE, T. CLAYTON, G. B. PLOUBIDIS, J. R. CARPENTER, K. M. E. TURNER, K. DEVRIES & K. POTTER (2020). "Safetxt: a safer sex intervention delivered by mobile phone messaging on sexually transmitted infections (STI) among young people in the UK - protocol for a randomised controlled trial." <i>BMJ Open</i> 10(3): e031635.]	Safetxt (theory-based)	RCT	Young people diagnosed with STI in last 2 wk	UK	SMS	Cumulative chlamydia and gonorrhoea incidence, objectively confirmed (12 m); Partner notification (Clinic attendance by partner); STI treatment compliance (took treatment, treatment-related abstinence); STI knowledge, self-efficacy (4 wk); Condom use; STI testing; someone else reading SMS; harms/adverse events: car accident where participant was driver; partner violence (12 m)
LIPPMAN, S. A., SHADE, S. B., SUMITANI, J., DEKADT, J., GILVYDIS, J. M., RATLHAGANA, M. J., GRIGNON, J., TUMBO, J., GILMORE, H., AGNEW, E., SABERI, P., BARNHART, S. & STEWARD, W. T. 2016. Evaluation of short message service and peer navigation to improve engagement in HIV care in South Africa: study protocol for a three-arm cluster randomized controlled trial. <i>Trials [Electronic Resource]</i> , 17, 68.	n/a	Cluster RCT, 3-arm	Adults diagnosed with HIV within past year	South Africa	SMS (one and two-way messages) [and peer-navigator]	Condom use, stigma (6, 12 m); cost-analysis

<p>LIU, A., COLEMAN, K., BOJAN, K., SERRANO, P. A., OYEDELE, T., GARCIA, A., ENRIQUEZ-BRUCE, E., EMMANUEL, P., JONES, J., SULLIVAN, P., HIGHTOW-WEIDMAN, L., BUCHBINDER, S. & SCOTT, H. 2019. Developing a Mobile App (LYNX) to Support Linkage to HIV/Sexually Transmitted Infection Testing and Pre-Exposure Prophylaxis for Young Men Who Have Sex With Men: Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 8, e10659.</p>	<p>LYNX (<i>theory-based</i>)</p>	<p>Pilot RCT</p>	<p>Young MSM</p>	<p>USA</p>	<p>Mobile phone-based app, incl. HIV/STI testing reminders</p>	<p>Preliminary efficacy - outcomes: HIV/STI testing (self-reported and objectively confirmed, 6 m); Covariates: sexual behaviour, incl. condom use; knowledge, attitudes and skills/ self-efficacy, perceived HIV risk, condom use peer norms, stigma (12 wk, 24 wk)</p>
<p>MAYO-WILSON, L. J., GLASS, N. E., SSEWAMALA, F. M., LINNEMAYR, S., COLEMAN, J., TIMBO, F., JOHNSON, M. W., DAVOUST, M., LABRIQUE, A., YENOKYAN, G., DODGE, B. & LATKIN, C. 2019. Microenterprise intervention to reduce sexual risk behaviors and increase employment and HIV preventive practices in economically-vulnerable African-American young adults (EMERGE): protocol for a feasibility randomized clinical trial. Trials [Electronic Resource], 20, 439.</p>	<p>EMERGE (Engaging Microenterprise for Resource Generation and Health Empowerment) (<i>theory-based</i>)</p>	<p>Pilot RCT</p>	<p>Economically vulnerable, young African American adults</p>	<p>USA</p>	<p>Blended SMS (SMS plus face-to-face educational sessions on starting a business and HIV prevention, plus business start-up grant and mentored apprenticeship)</p>	<p>Condom use (assessed weekly in wk 1-26)</p>
<p>SULLIVAN, P. S., ZAHN, R. J., WIATREK, S., CHANDLER, C. J., HIRSHFIELD, S., STEPHENSON, R., BAUERMEISTER, J. A., CHIASSON, M. A., DOWNING, M. J., JR., GELAUE, D. J., SIEGLER, A. J., HORVATH, K., ROGERS, E., ALAS, A., OLANSKY, E. J., SAUL, H., ROSENBERG, E. S. & MANSERGH, G. 2019. HIV Prevention Via Mobile Messaging for Men Who Have Sex With Men (M-Cubed): Protocol for a Randomized Controlled Trial. JMIR Research Protocols, 8, e16439.</p>	<p>M-Cubed, or M3 (Mobile Messaging for Men) (<i>theory-based</i>)</p>	<p>RCT</p>	<p>MSM</p>	<p>USA</p>	<p>Mobile phone-based app, incl. text- and video-based messages</p>	<p>Outcomes: STI and HIV testing; sexual behaviour, incl. condom use; Covariates: condom use efficacy beliefs, stigma, attitudes, intentions, partner communication, intimate partner violence (6, 9 m)</p>

YAN, J., ZHANG, A., ZHOU, L., HUANG, Z., ZHANG, P. & YANG, G. 2017. Development and effectiveness of a mobile phone application conducting health behavioral intervention among men who have sex with men, a randomized controlled trial: study protocol. BMC Public Health, 17, 355.	n/a	RCT	MSM	China	Mobile phone-based app, incl. WeChat messages	HIV and STI infection rates (unclear if self-reported or objectively confirmed); sexual behaviour, incl. condom use; HIV testing; (6, 12, 18 m); cost-effectiveness
ZOU, H., MENG, X., GRULICH, A., HUANG, S., JIA, T., ZHANG, X., LUO, Z., DING, Y., YANG, L., HUANG, J., CHEN, W., ZHENG, H. & YANG, B. 2017. A randomised controlled trial to evaluate the impact of sexual health clinic based automated text message reminders on testing of HIV and other sexually transmitted infections in men who have sex with men in China: protocol for the T2T Study. BMJ Open, 7, e015787.	T2T Study	RCT	MSM	China	SMS	HIV testing and treatment; sexual behaviour, incl. condom use; (6, 12 m) cost-effectiveness
ANONYMOUS 2017. Correction: A randomised controlled trial to evaluate the impact of sexual health clinic based automated text message reminders on testing of HIV and other sexually transmitted infections in men who have sex with men in China: Protocol for the T2T Study (BMJ Open (2017) 7 (e015787) DOI: 10.1136/bmjopen-2016-015787). BMJ Open, 7.						

* Outcomes relevant to our systematic review only

MSM, men having sex with men; RCT, randomized controlled trial; SMS, short message service (mobile phone text messaging); SRH, sexual and reproductive health; incl., including; interv., intervention; m, month(s); n/a, not applicable; wk, week(s)