Supplementary Table 2: Key ethical issues identified from the included studies

S.No	Study	No access to mobiles	Network access issues	Difficulty in maintaining mobile	Benefits	Risks	Privacy	Confidentiality	Community Acceptance	Improved Access to health
1	Tewari 2017	Yes	Poor network	No	Effective follow up, improved trust	Fear and apprehension	Yes, compromise of privacy	Problems with confidentiality	High acceptance	Access to mental health
2	Kumar 2019	Yes	No	No	Improved video based directly observed TB treatment	No	Yes, compromise of privacy	Compromise in confidentiality	Video observed treatment acceptable	Improved access to TB treatment
3	Charanthimath 2021	No	No	No	Empowerment of community health worker, better interactions with community	No	No	No	No	No
4	Young 2021	Yes	Poor network	No	Better data capture of nutritional intervention	Overburdened community health worker	No	No	No	No
5	Schierhout 2021	no	no	No	Better trust in community health worker, community health worker is more responsive to community needs	No	No	No	High level of acceptance due to trust in community health worker	No
6	Schaaf 2018	No	No	No	Improved health system accountability	No	No	No	No	No
7	Harding 2021	No	No	No	Improved palliative care, better understanding of patients' symptoms	No	No	No	High acceptance due to improved care	Improved access to palliative care
8	Thekkur 2019	Yes	Poor network	No	No benefit of mHealth intervention	Higher risk of death and poor outcomes, increased work load of health worker, poor interactions with community	No	No	Poor acceptance	Led to poor quality care
9	Singh 2021	No	No	No	Better delivery of services and health care outcomes	Lack of scalability and sustainability due to resource constraints and lack of political will	No	No	No	Did improve access to care
10	Muke 2019	No	Poor network	Yes	Very useful to train community health workers on mental health, convenient, time saving	Community health workers found application challenging to use	No	No	Poor acceptance by the community health workers	Improved mental health care
11	Samanta 2021	No	No	No	Community awareness about pregnancy and maternity increased	No	Mobile improved privacy	No	High acceptance	Improved access to maternal and child health care

12	Bhatt 2018	No	No	no	reduced reporting time, less errors, earlier case detection and management, easier folllow up, increased trust in the community health worker	No	No	No	High acceptance	Improved access to cancer screening
13	Gopalakrishnan 2020	No	Poor network	Yes	Legitimizes work, improved communication, trust building, better community engagement,	Less personal and rushed communication, compromised verbal communication,	No	No	Poor acceptance by community	No
14	Thomas 2017	No	No	No	Mobile based education about HIV, counselling, alleviation of distress of male sex workers	No	Yes, compromise of privacy	Concerns regarding confidentiality	Low acceptance	No
15	Joshi 2021	No	Poor network	No	Improved data capture on maternal and child health tracking, better service delivery	Server errors, overburdened health worker	No	No	No	No
16	Nagar 2018	Yes	No	No	No	Immunization coverage was lesser in the mHealth intervention	No	No	Poor acceptance	Did not improve access to immunization
17	Sharma 2021	No	No	No	increased knowledge, better lifestyles, better metabolic parameters in intervention clusters	No	No	No	Good acceptance of the IVRS messages	Improved access to NCD care
18	Prinja 2018	No	No	No	mHealth intervention cost effective, sustainable cost	No	No	No	No	No
19	Ravindra 2018	No	No	No	Cost effective instant messaging system to regulate open air defecation	No	No	No	High acceptance	Improved access to good sanitation
20	Birur 2019	No	No	No	CHW are able to effectively screen for and detect oral cancer	No	No	No	High acceptance	Access to screening for oral cancer
21	Ward 2021	No	No	No	increase knowledge, increased consumption of IFA, increased use of contraception, more knowledge about birth preparedness,	No	No	No	No	Improved access to maternal and child health care

#	Study									
22	Prinja 2018 (2)	No	No	No	cost effective, sustainable cost of mHealth intervention	No	No	No	No	No
23	Archer 2021	No	No	No	No	No	Privacy concerns did not influence utilization	Data security concerns did not influence utilization	Better infrastructure will improve acceptance	No
24	Wagner 2018	No	No	No	Effective data capture, improved efficacy of community health work	No	No	No	Increased acceptance	Better access to referral services
25	Sharma 2021 (2)	No	No	No	accurate data capture, vital events reporting accurate, increased accountability of ASHA	No	No	No	Improved acceptance	Increased access to maternal and child health care
26	Alvarez 2018	No	Poor network	No	Improved quality of palliative and end of life care	No	No	No	Higher acceptance	Improved access to end of life care
27	Ward 2020	No	No	No	Higher consumption of IFA, better delivery preparedness, better infant and complementary feeding practice, better early breastfeeding and better exclusive breastfeeding, increased trust in frontline worker	No	No	No	High community acceptance	Increased access to maternal and child health care
28	Nanda 2021	Yes	Poor network	No	Better accessibility, lesser time spent, convenience of telemedicine	Technical challenges limited its use	Yes, compromise of privacy	Concerns regarding confidentiality	Higher community acceptance	Improved health care access during COVID 19 times
29	Hegde 2018	No	No	No	Toll free medical advice helpline very effective, useful for health workers to serve communities	No	No	No	Greater acceptance	Improved access to health advice to remote corners
30	Kumar 2021	No	No	No	Improved nutritional status, reduced wasting and underweight due to SMS messages on child care	No	No	No	Greater acceptance by community	Increased access to nutrition care
31	Jindal 2019	No	Poor network	No	Improved access to hypertension and	No	No	No	Accepted by community	Increased access to NCD care

					diabetes screening and treatment					
32	Rajvanshi 2021	No	Poor network	Yes	Better data capture, better diagnosis and treatment of malaria, better logistics and supply chain of drugs	No	No	No	Better community acceptance	Improved access to malaria treatment
33	Maulik 2017	No	No	No	Reduction in depression and anxiety	risk of stigma and discrimination	No	Concerns regarding confidentiality	Better community acceptance	Improved care for mental health
34	Modi 2019	Yes	No	No	Improved maternal and child health services in remote tribal areas	No	No	No	Greater community acceptance	Improved access to remote tribal areas
35	Johri 2020	Yes	Poor network	No	Mobile based health education increased vaccination uptake	No	No	No	Greater acceptance	Access to vaccination services increased
36	Prinja 2017	No	No	No	Better data capture	No	No	No	No	No
37	Ilozumba 2018	No	Poor network	No	Improved knowledge of pregnant women, better health and treatment seeking behaviours, improved pregnancy outcomes	No	No	No	Greater community acceptance	Improved access to maternal and child health care
38	Tewari 2021	Yes	Poor network	No	Better knowledge of CHW on mental health, improved screening and follow up for mental illness	stigma attached to the disease	Yes, compromise of privacy	No	Greater community acceptance	Improved access to mental health services
39	Chamberlain 2021	No	Poor network	No	Increased knowledge and awareness about maternal and child health	No	No	No	Greater acceptance	Improved access to maternal and child health services
40	Venkataraghavan 2021	Yes	Poor network	No	Increased use of mobiles by CHWs will improve quality of services	Calls are disturbing	No	No	No	Improved access to primary health care
41	Pant 2019	No	No	No	Effective in screening for HIV and associated infections among pregnant women	No	No	Yes	Greater acceptance	Improved access to HIV screening during pregnancy
42	Chadha 2017	Yes	Poor network	No	Better referral of patients for TB care	No	No	Concerns regarding confidentiality	Greater acceptance	Improved access to TB referral services in tribal communities
43	Dandge 2019	No	Poor network	No	Better NCD care	No	No	Concerns regarding data security	No	Improved access to NCD care
44	Shah 2018	No	Poor network	No	Improved knowledge of CHW on	No	No	No	No	Improved access to maternal and child health care

					pregnancy, childbirth and newborn care					
45	Bashingwa 2021	No	Poor network	No	Convenient and good quality training of community health workers	No	No	No	Increased acceptance	No
46	Darmstadt 2020	No	No	No	Improved primary health care delivery	No	No	No	No	Improved access to primary health care
47	Newton-Lewis 2021	No	No	No	Improved status of CHW in community	excess workload, impersonalizes communication, if CHW makes mistakes in handling mobile loss of trust, interpersonal communication short and perfunctory	No	No	No	No
48	Chawla 2021	No	No	No	Improved delivery of maternal and child health care	No	No	No	Greater acceptance	Improved access to maternal and child health services
49	Muralidharan 2017	No	No	No	SMS based messages improved care for diabetes	No	No	No	No	Improved access to diabetes care in community
50	Kalaivanan 2021	Yes	Poor network	No	Increased mental health care for elderly	Lack of personal contact and connectedness	Yes, compromise of privacy	Concerns regarding data security	No	Improved access to mental health care for elderly
51	Jayarajan 2020	Yes	No	No	Provision of telerehabilitation mental health services in community	No	Yes, compromise of privacy	Concerns regarding confidentiality	No	Improved access to mental health care
52	Galagali 2021	No	Poor network	No	Improved child and adolescent health care	Lack of physical examination,	Yes, compromise of privacy	Concerns regarding confidentiality	No	Increased access to child health during COVID 19
53	Agarwal 2020	No	No	No	Improved delivery of primary health care through telemedicine	No	No	No	Greater community acceptance	Improved access to primary health care
54	Kommu 2020	Yes	Poor network	No	Improved access to counselling, telepsychiatry for children	No	Yes, compromise of privacy	Concerns regarding confidentiality	No	Improved access to child mental health
55	Kuziemsky 2018	No	No	No	Connected health care through telehealth services improves access	Yes	Yes, compromise of privacy	Compromise of confidentiality	No	Improved health care access through telehealth
56	McCool 2020	No	No	No	Smoking cessation text messages are effective	NO	Yes, compromise of privacy	No	Greater acceptance	Improved access to smoking cessation services

57	Mahajan 2020	No	No	No	Improved access to primary health care through telemedicine	No	No	Confidentiality issues	No	Greater access to primary health care during COVID 19 through telemedicine
58	Naslund 2019	No	No	No	Better training of CHW on mental health	No	No	No	Greater acceptance	Improved access to mental health services in community