

Behavioural factors influencing hand hygiene practices across domestic, institutional, and public community settings: A systematic review

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S6- Overview of Included Studies

Author, Year	Study Design	Country	Location	Setting	Study Population(s)	Total Sample Size	Theory	COM-B codes	MMAT (qual final score)
Aberese-Ako 2023	Qualitative	Ghana	Rural and Urban	Domestic - Household	Adults (Women and Men)	64	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Affleck 2012	Mixed Methods	Bangladesh	Rural	Domestic - Household	Adults (Women only)	34	Not reported	O-Physical, M-Reflective, and M-Automatic	5
Afolabi 2022	Qualitative	Senegal	Rural and Urban	Domestic - Households	Caregivers of children	100	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Akter 2014	Qualitative	Bangladesh	Rural	Domestic - Household	Adults (Women only)	144	Not reported	C-Physical, C-Psychological, O-Physical, M-Reflective, and M-Automatic	5
Akter 2022	Mixed Methods	Bangladesh	Rural	Domestic - Household	Adults (Women and Men)	746	Not reported	O-Physical	5
Al-Naggar 2013	Qualitative	Malaysia	Not Reported	Institutions - Universities	Adults (Women and Men); Other: Medical University Students	40	Not reported	O-Physical, M-Reflective, and M-Automatic	5
Arendt 2015	Mixed Methods	USA	Not Reported	Institutions - Workplace	Food workers	25	Not reported	C-Psychological and M-Automatic	5
Ashraf 2017	Mixed Methods	Bangladesh	Rural	Domestic – Household	Adults (Women and Men)	385	IBM-WASH	O-Physical and O-Social	5
Atuyambe 2011	Mixed Methods	Uganda	888 – Not Reported	Domestic - Household	General population	397	Not reported	O-Physical and M-Automatic	5
Azam 2022	Mixed Methods	Pakistan	Not Reported	Domestic - Household	General population	400	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Babalobi 2013	Mixed Methods	Nigeria	Urban	Public - Markets	Children (Girls and Boys)	Not Reported	Not reported	C-Psychological, O-Physical, and M-Reflective	5
Bauza 2021	Mixed Methods	India	Rural	Domestic – Household	Adults (Women and Men)	131	Not reported	C-Psychological, O-Physical, and M-Automatic	5
Biran 2005	Mixed Methods	Kyrgyzstan	Rural	Domestic – Household	General population	Not Reported	Not reported	C-Psychological, O-Physical, and M-Automatic	5
Biran 2012	Mixed Methods	Thailand, Ethiopia and Kenya	Other: refugee camps	Other: refugee camps	General population	1127	Not reported	O-Physical	5
Biswas 2017	Mixed Methods	Bangladesh	Rural	Domestic – Household	General population	80	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Blum 2019	Qualitative	Congo	Not Reported	Internally displaced person camps	General population	18	IBM-WASH	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Chidziwisano 2019	Mixed Methods	Malawi	Rural	Domestic – Household	Children (Girls and Boys) and Caregivers	323	RANAS	O-Physical, O-Social, and M-Automatic	5
Claude 2020	Mixed Methods	Congo	Rural	Internally displaced person camps	General population	307	Not reported	O-Physical	5
Curtis 2003	Mixed Methods	UK	Not Reported	Domestic – Household	Adults (Women and Men)	33	Not reported	M-Reflective, and M-Automatic	5
Dearden 2002	Qualitative	Vietnam	Rural	Domestic – Household	Children (Girls and Boys)	100	Elicitation procedure	O-Physical, O-Social, M-Reflective, and M-Automatic	5

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Demberere 2016	Mixed Methods	Zimbabwe	Rural	Domestic – Household	Mother-child dyads	Not Reported	Not reported	O-Physical and M-Automatic	5
Devkota 2020	Qualitative	Nepal	Not Reported	Institutions - Schools	Adults (Women and Men); Children (Girls and Boys)	50	Not reported	O-Physical and M-Automatic	2
Didier 2021	Mixed Methods	France, Norway, Portugal, Romania, UK	Rural and Urban	Domestic – Household	Adults (Women and Men)	Not Reported	Not reported	C-Psychological, O-Physical, M-Reflective, and M-Automatic	5
Grant 2023	Mixed Methods	Bangladesh	Not Reported	Domestic – Household	General population	1762	Not reported	O-Physical	5
Green 2005	Qualitative	USA	Not Reported	Institutions - Workplace	Food workers	Not Reported	Not reported	C-Psychological, O-Physical, O-Social, and M-Reflective	5
Greenwell 2013	Qualitative	Fiji	Peri-urban	Domestic – Household	General population	27	Not reported	O-Physical, M-Reflective, and M-Automatic	5
Harrison 2019	Qualitative	Uganda	Rural	Domestic – Household	Adults (Women only)	55	Not reported	O-Social and M-Reflective	5
Herbst 2009	Mixed Methods	Vietnam	Peri-urban	Domestic – Household	General population	135	Not reported	M-Reflective	5
Hoque 2023	Mixed Methods	Bangladesh	Rural	Domestic – Household	Adults (Women and Men)	242	Not reported	C-Psychological, O-Physical, and O-Social	5
Jackson 2021	Qualitative	USA	Not Reported	Institutions - Schools	Adults (Women and Men)	11	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Kalam 2021	Mixed Methods	Bangladesh	Urban	Domestic – Household	General population	90	RANAS; Behavior Centered Design/Evo-Eco Model; Health Belief Model	O-Physical	5
Kalumbi 2020	Mixed Methods	Malawi	Not Reported	Domestic – Household	General population	265	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Kumar 2018	Mixed Methods	India	Urban	Institutions - Schools	Children (Girls and Boys)	194	Not reported	C-Psychological, O-Physical, O-Social, and M-Automatic	5
La Con 2017	Mixed Methods	Kenya	Rural	Institutions - Schools	Children (Girls and Boys)	Not Reported	Not reported	C-Psychological, O-Physical, and M-Reflective	5
Lando 2018	Mixed Methods	USA	Not Reported	Domestic - Households; Institutions - Schools	Adults (Women and Men)	Not Reported	Not reported	M-Automatic	5
Lanfer 2021	Qualitative	Sierra Leone	Rural and Urban	Domestic – Household	General population	56	IBM-WASH	O-Physical, O-Social, and M-Reflective	5
Langford 2013	Mixed Methods	Nepal	Peri-urban	Domestic – Household	Adults (Women only)	Not Reported	Not reported	C-Psychological, O-Physical, O-Social, M-Reflective, and M-Automatic	5
Lohiniva 2007	Qualitative	Egypt	Rural	Domestic - Households; Public - Markets	Adults (Women only)	Not Reported	Not reported	O-Physical, M-Reflective, and M-Automatic	5

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Mbakaya 2019	Qualitative	Malawi	Not Reported	Institutions - Schools	Children (Girls and Boys)	Not Reported	Not reported	C-Psychological, O-Physical, O-Social, and M-Reflective	5
Melaku 2023	Mixed Methods	Ethiopia	Not Reported	Institutions - Schools	Adults (Women and Men); Children (Girls and Boys)	Not Reported	Not reported	O-Physical	5
Mezaache 2021	Mixed Methods	France	Urban	Other: harm reduction programs	Other: people who inject drugs	59	Not reported	M-Reflective and M-Automatic	2
Mitchell 2021	Mixed Methods	Australia	Not Reported	Domestic – Household	Adults (Women and Men)	426	Not reported	C-Physical, C-Psychological, and M-Automatic	5
Mohamed 2022	Qualitative	Tanzania	Urban	Domestic – Household	General population	102	Not reported	C-Physical, O-Physical, O-Social, and M-Reflective	3
Mshida 2020	Mixed Methods	Tanzania	Rural	Domestic - Households; Public - Markets	General population	3547	Not reported	M-Reflective	5
Neetu 2013	Qualitative	India	Not Reported	Public - Markets; Institutions - Workplace	Food workers	67	Not reported	O-Physical, M-Reflective, and M-Automatic	5
Nizame 2013	Mixed Methods	Bangladesh	Rural	Domestic – Household	General population	350	COM-B	O-Physical, M-Reflective, and M-Automatic	5
Nizame 2016	Qualitative	Bangladesh	Rural	Domestic – Household	General population	24	IBM-WASH; PRECEDE/PROCEED	O-Physical, M-Reflective, and M-Automatic	5
Nizame 2019	Mixed Methods	Bangladesh	Rural and Urban	Public - Markets	General population; Food workers	600	IBM-WASH	C-Physical, O-Physical, and M-Reflective	5
Norrie 2022	Qualitative	England	Not Reported	Domestic – Household	Adults (Women and Men)	41	Not reported	M-Reflective	5
Ntakirutimana 2021	Mixed Methods	Rwanda	Not Reported	Domestic – Household	Adults (Women only) and Children (Girls and Boys)	Not Reported	Not reported	O-Physical	5
Ogutu 2022	Qualitative	Kenya	Rural and Peri-urban	Domestic – Household	Adults (Women and Men)	65	COM-B	C-Psychological, O-Physical, M-Reflective, and M-Automatic	5
Okello 2019	Qualitative	Tanzania	Rural and Urban	Institutions - Schools	Children (Girls and Boys)	16 adults, 100 children	Behavior Centered Design/Evo-Eco Model; COM-B	C-Psychological, O-Physical, M-Reflective, and M-Automatic	5
Parveen 2018	Qualitative	Bangladesh	Rural	Domestic – Household	Adults (Women only)	64	Theory of Planned Behavior; Health Belief Model	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Pragle 2007	Qualitative	USA	Rural and Urban	Institutions - Workplace	Food workers	18	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Rahman 2017	Qualitative	Bangladesh	Urban	Domestic – Household	General population	61	Cultural Consensus Theory, Prototype Theory	C-Psychological. O-Social, and M-Reflective	5

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Randle 2013	Mixed Methods	England	Not Reported	Institutions - Schools; Other: healthcare setting	Children (Girls and Boys)	Not Reported	Not reported	M-Reflective and M-Automatic	5
Rauyajin 1994	Qualitative	Thailand	Not Reported	Domestic – Household	Mother-child dyads	12	Health Belief Model; Model of families use of health service	M-Reflective and M-Automatic	5
Sagan 2019	Mixed Methods	Nepal, Pakistan, and the Philippines	Rural and Urban	Domestic – Household	Adults (Women only)	Not Reported	Behavior Centered Design/Evo-Eco Model	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Schmidt 2009	Qualitative	UK	Urban	Institutions - Schools	Adults (Women and Men); Children (Girls and Boys)	Not Reported	Not reported	C-Psychological, O-Social, M-Reflective, and M-Automatic	5
Scott 2007	Qualitative	Ghana	Rural and Urban	Domestic – Household	General population	448	Health Belief Model	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Sebong 2021	Qualitative	Indonesia	Urban	Institutions - Universities	Adults (Women and Men)	23	Not reported	C-Psychological, O-Physical, O-Social, and M-Reflective	5
Sedekia 2022	Qualitative	Tanzania	Rural	Domestic - Households; Institutions - Schools	Children (Girls and Boys)	20	COM-B	C-Psychological and M-Automatic	5
Simiyu 2020	Qualitative	Kenya	Peri-urban	Domestic – Household	Adults (Women and Men); Children (Girls and Boys)	40 adults, 127 children	Behavior Centered Design/Evo-Eco Model	M-Reflective	5
Steenkamp 2022	Qualitative	South Africa	Urban	Other: Early childhood development (ECD) centers	Adults (Women and Men); Children (Girls and Boys)	105	Not reported	O-Physical and M-Reflective	5
Steiner-Asiedu 2011	Mixed Methods	Ghana	Not Reported	Domestic - Households; Institutions - Schools	Children (Girls and Boys)	295	Not reported	O-Physical and M-Reflective	5
Sultana 2018	Qualitative	Bangladesh	Urban	Domestic - Households; Institutions - Schools	General population	Not Reported	IBM-WASH	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Thaivalappil 2022	Qualitative	Canada	Not Reported	Domestic – Household	Adults (Women and Men)	37	Theoretical Domains Framework	O-Social, M-Reflective, and M-Automatic	5
Thorseth 2021	Mixed Methods	Ethiopia	Not Reported	Internally displaced person camps	General population	Not Reported	Not reported	O-Physical, M-Reflective, and M-Automatic	5
Tibbels 2022	Qualitative	Coˆte d'Ivoire	Urban	Domestic – Household	General population	152	Not reported	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Torres-Slimming 2019	Mixed Methods	Peru	Rural	Domestic – Household	General population	64	Not reported	O-Physical, O-Social, and M-Reflective	5

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Ward 2022	Mixed Methods	Nigeria, Burkina Faso, and Chad	Urban and Rural	Domestic – Household	Adults (Women and Men)	Not Reported	Donabedian's Model for Assessing Quality of Care	O-Social, M-Reflective, and M-Automatic	5
Watson 2020	Qualitative	Iraq	Not Reported	Internally displaced person camps	Children (Girls and Boys)	72	IBM-WASH; Behavior Centered Design/Evo-Eco Model	O-Physical, O-Social, and M-Reflective	5
White 2022 A	Qualitative	Iraq	Not Reported	Domestic - Households; Internally displaced person camps	General population	159	Behavior Centered Design/Evo-Eco Model	O-Physical, O-Social, M-Reflective, and M-Automatic	5
White 2022 B	Qualitative	Congo	Rural and Urban	Domestic - Households; Internally displaced person camps	General population	104	Behavior Centered Design/Evo-Eco Model	O-Physical, M-Reflective, and M-Automatic	4
Wu 2019	Mixed Methods	China	Urban	Public - Parks, squares, or other public outdoor spaces	Adults (Women and Men)	300	Not reported	O-Physical, M-Reflective, and M-Automatic	5
Xuan 2013	Mixed Methods	Vietnam	Rural	Institutions - Schools	Children (Girls and Boys)	343	Not reported	O-Physical	5
Yallew 2012	Mixed Methods	Ethiopia	Not Reported	Domestic – Household	Adults (Women and Men)	258	Not reported	O-Physical	5
Yardley 2011	Mixed Methods	UK	Not Reported	Domestic – Household	General population	129	Theory of Planned Behavior	O-Physical, O-Social, M-Reflective, and M-Automatic	5
Yeasmin 2021	Qualitative	Bangladesh	Rural	Domestic – Household	Adults (Women and Men)	89	IBM-WASH	O-Physical and O-Social	3
Zangana 2020	Mixed Methods	Iraq	Other: Camps	Domestic - Households; Internally displaced person camps	General population	180	Not reported	C-Psychological, O-Physical, O-Social, M-Reflective, and M-Automatic	5