

Additional file 4: Characteristics of publications with qualitative study design

Author & year of publication	Country	Method		Care Setting	Target group of interest	Disease of interest	Document type	Survey	Respondents	N	Application of the Andersen model	
Chao et al. 2020 [1]	USA	mm	CA	Mental health services	Migrants; elderly individuals	Mental disorder	A	I	TG	14	A&A1974	DC; DA
Due et al. 2020 [2]	Australia	ql	CA	Oral health services	Migrants	No specific disease	A	I	TG, HP	26	R-BMHSU1995	Theo; DC; DA
Isaak et al. 2020 [3]	Canada	ql	GT	Mental health services	Racial and ethnic minorities	Mental disorder	A	I, FG	TG	115	BMHSU, R-BMHSU1995, A&N1973, A&D&B 2013	Theo; DA
Shewamene et al. 2020 [4]	Australia	mm	CA	Complementary and alternative medicine	Women; migrants	Maternal and perinatal health	A	I	TG	15	BMHSU	Theo
Travers et al. 2020 [5]	USA	ql	CA	Long-term care	Elderly individuals	No specific disease	A	I	TG	470	Ex-BMPF2002	Theo; DA
Bascur-Castillo et al. 2019 [6]	Chile	ql	P	Urologic disease treatment	Women	Urologic diseases	A	I	TG	10	R-BMHSU1995	Theo; DA
Briones-Vozmediano et al. 2019 [7]	Spain	ql	CA	General health care	Migrants	Violence experience	A	I	HP	28	A&A1974	DA
Coleman 2019 [8]	USA	ql	P	Mental health services	Migrants; men; individuals with mental disorder	Mental disorder	D	I	TG	66	BMHSU, R-BMHSU1995, A&N1973	Theo
Fleury et al. 2019 [9]	Canada	mm	-	Mental health services	Individuals with mental disorder	Mental disorder	A	I	TG	328	R-BMHSU1995	Theo; DC; DA
Green et al. 2019 [10]	USA	ql	CA	General health care	Men; individuals with HIV	HIV	A	I	TG	10	BMHSU, R-BMHSU1995	DA
Heidari et al. [11]	Iran	ql	CA	Medication use	Individuals with arthritis	Arthritis	A	I	HP	47	BMHSU2008	DC; DA
Koche et al. 2019 [12]	Nigeria	ql	-	General health care	General population	No specific disease	A	I	TG	24	R-BMHSU1995, A&A1974, A&D2001, A&N2005	DA
Navarro-Millan et al. 2019 [13]	UK	ql	-	E-health	Individuals with specific disease	Rheumatoid arthritis	A	FG	TG	31	A&N1973	DC; DA
Opoku et al. 2019 [14]	Ghana	ql	CA	E-health	Individuals with non-communicable disease	Non-communicable disease	A	I	HP	13	mhealth PNE	DA
Perry et al. 2019 [15]	USA	ql	TA	Preventive services	Individuals with low socio-economic status	No specific disease	A	FG	TG	235	A&A1974	Theo; DC; DA
Roberson et al. 2019 [16]	USA	ql	GT	Natal care	Women; migrants, pregnant women	Maternal and perinatal health	A	I	TG	12	R-BMHSU1995	Theo; DC
Robinson et al. 2019 [17]	UK	ql	FA	Oral health services	General population	Oral diseases	A	FG; I	TG, HP	34	A&D1997	DA

Schatz et al. 2019 [18]	Uganda	ql	CA	STD treatment	Individuals living in rural areas; elderly individuals	HIV	A	I	TG, HP	40	R-BMHSU1995	DA
Gill et al. 2018 [19]	UK	ql	P	Urologic disease treatment	Individuals with specific disease	Urologic diseases	A	I	TG	12	R-BMHSU1995	DA
Grodensky et al. 2018 [20]	USA	ql	TA	Health insurance	Men; individuals with incarceration	No specific disease	A	I	TG	20	BMVP2007	Theo; DC; DA
Ko et al. 2018 [21]	USA	ql	CA	Preventive services	Women; mothers	Viral Hepatitis	A	FG	TG	30	R-BMHSU1995	DC; DA
Lor et al. 2018 [22]	USA	ql	-	Screening	Migrants; women	No specific disease	A	FG	TG	58	BMVP2000	DA
Mago et al. 2018 [23]	Canada	ql	P, E	Dental care	Homeless	No specific disease	A	I	TG	25	BMVP2000	Theo; DA
Riang'a et al. 2018 [24]	Kenya	mm	-	Natal care	(Pregnant) Women; individuals living in rural areas	No specific disease	A	I	TG, HP	64	A&N1973	DA
Victor et al. 2018 [25]	UK	ql	CA	General health care	Elderly individuals; residents in care homes	No specific disease	A	I	TG	35	A&N1973	DC; DA
Bayuo 2017 [26]	Ghana	ql	CA	Outpatient care	Elderly individuals	No specific disease	A	I	TG	16	R-BMHSU1995	Theo; DA
Hawk et al. 2017 [27]	USA	ql	CA	STD treatment	Individuals with specific disease	HIV	A	I	TG, HP	40	R-BMHSU1995	Theo; DC; DA
Herrmann et al. 2017 [28]	Norway; Germany	ql	GT	General health care	General population	No specific disease	A	I; O	TG	40	R-BMHSU1995	Theo
Lee 2017 [29]	USA	mm	GT	Screening	Migrants, women	cancer	D	I	TG	30	R-BMHSU1995	Theo
Levison et al. 2017 [30]	USA	ql	E	STD treatment	Migrants	HIV	A	I	TG, HP	51	BMVP2000	DC
Parkman et al. 2017 [31]	UK	ql	I	Emergency department	Individuals with specific disease	Addiction	A	I	TG	30	R-BMHSU1995, BMHSU	Theo; DA
Rice 2017 [32]	USA	ql	P	Health insurance	Individuals with incarceration	No specific disease	D	I	TG	11	BMVP2000	Theo; DC
Rodriguez et al. 2017 [33]	USA	ql	-	STD treatment	Individuals living in rural areas	HIV	A	I	HP	36	A&D2001	DA
Tewari et al. 2017 [34]	India	mm	GT	Mental health care	Individuals living in rural areas	Mental disorders	A	FG; I	HP	78	R-BMHSU1995	DA
Velez et al. 2017 [35]	USA	ql	GT	Dental care	Migrants; women	No specific disease	A	FG	TG, HP	103	BMVP2000	Theo; DA
White 2017 [36]	USA	ql		Preventive services	Men; migrants; young individuals	Cancer; CD	D	I	TG	12	R-BMHSU1995	Theo; DA
Henson et al. 2016 [37]	UK	ql	CA	Emergency department	Individuals with specific disease	Cancer	A	I	TG, NK	24	A&N1973	Theo; DC; DA

Kohno et al. 2016 [38]	Malaysia	ql	CA	General health care	Migrants; elderly individuals	No specific disease	A	FG; I	TG	38	R-BMHSU1995	Theo; DA
Maulik et al. 2016 [39]	India	mm	TA	Mental health care	Individuals living in rural areas	Mental disorders	A	FG; I	TG, HP	31	R-BMHSU1995	DA
Mukasa 2016 [40]	USA	ql	P	Natal care	Migrants; women; mothers	No specific disease	D	I	TG	11	R-BMHSU1995	Theo; DA
Obikunle 2016 [41]	USA	ql	P	Prevention, Screening	Women; migrants	Cancer	D	I	TG	14	R-BMHSU1995	Theo; DA
Rachlis et al. 2016 [42]	Kenya	ql	-	Chronic care	Individuals with specific disease	HIV; TB; CD	A	FG; I	TG, HP, NK	207	A&N1973	DA
Rachlis et al. 2016 [43]	Kenya	ql	CA	Chronic care	Individuals with specific disease	HIV; TB; CD	A	FG; I	TG, HP	235	A&N1973	DA
Sperber et al. 2016 [44]	USA	ql	CA	Cancer care, health insurance, genomic services	Veterans	Cancer	A	I	HP	58	Ex-BMPF2002, UM1998	DC; DA
Thiessen et al. 2016 [45]	Canada	ql	CA	Natal care	(H)P	No specific disease	A	I	HP	24	A&A1974	DC; DA
Blanas et al. 2015 [46]	USA	ql	GT	Screening	Migrants	Viral Hepatitis	A	FG	TG	39	BMVP2000	Theo; DC; DA
Bradbury-Jones et al. 2015a [47]	UK	mm	TA	Natal care	Women	No specific disease	A	FG	HP	45	Ex-BMPF2002, A&D2001	Theo; DA
Bradbury-Jones et al. 2015b [48]	Scotland	ql	R&S	Natal care	Women; victims of violence	No specific disease	A	I	TG	5	R-BMHSU1995, Ex-BMPF2002, A&D2001	Theo; DA
Coe et al. 2015 [49]	USA	ql	CA	Medication use	Homeless	No specific disease	A	DocA	TG	426	BMVP2000	Theo
Condellius et al. 2015 [50]	Sweden	ql	CA	General health care	Elderly individuals	No specific disease	A	I	NK	14	A&A1974	Theo; DC; DA
Conner et al. 2015 [51]	USA	ql	P	End-of-life care	Informal caregivers; (H)P	No specific disease	A	FG	TG, HP	53	R-BMHSU1995	Theo
Holtzman et al. 2015 [52]	USA	ql	GT	STD treatment	Individuals with specific disease	HIV	A	I	TG	51	R-BMHSU1995	Theo; DA
Nowgesic 2015 [53]	Canada	ql	E	STD treatment	Indigenous people	HIV	D	I; O	TG, HP	41	BMHSU2008	DC; DA
Porteous et al. 2015 [54]	Scotland	ql	TA	Self-care	Individuals with specific disease	No specific disease	A	I	TG	24	R-BMHSU1995, BMHSU2008	Theo; DC; DA
Richards 2015 [55]	Grenada	ql	P	Screening	Women	Cancer	D	I	TG	8	BMHSU2008	Theo; DC; DA
Cathers 2014 [56]	USA	ql	P	Outpatient care	(Health) professionals	Addiction	D	I	TG	5	BMVP2000	Theo; DA
Serna 2014 [57]	USA	mm	CA	Dental care	Migrants	Oral diseases	D	I	TG	14	R-BMHSU1995, BMHSU	Theo; DC
Artuso et al. 2013[58]	Australia	ql	TCM	General health care	Migrants	CD	A	FG; I	TG, HP, NK	21	R-BMHSU1995	Theo

Doshi et al. 2013 [59]	USA	ql	GT	Screening	Men; migrants	HIV	A	I	TG	78	R-BMHSU1995	DC; DA
Han et al. 2013 [60]	USA	ql	GT	Prevention, Screening	Individuals with specific disease	Viral Hepatitis	A	I	HP	20	A&A1974	Theo; DC; DA
Majaj et al. 2013 [61]	Palestine	ql	-	General health care	Women; individuals living in rural areas	No specific disease	A	I	TG, HP	37	R-BMHSU1995	DC; DA
Noh 2013 [62]	USA	ql	CA	End-of-life-care	Elderly individuals; migrants	No specific disease	A	I	TG	28	BMVP2000	Theo; DC; DA
Scott 2013 [63]	USA	mm	CA	Cancer care	Migrants	Cancer	D	FG; I	TG, HP, NK	29	BMVP2000	Theo
Boateng et al. 2012 [64]	Netherlands	ql	CA	General health care	Migrants	No specific disease	A	FG	TG	51	R-BMHSU1995	DC; DA
Callahan 2012 [65]	USA	mm	CA	Cancer care	Individuals with specific disease	Cancer	D	I	TG	7	BMVP2000	Theo
Dergal 2012 [66]	Canada	mm	GT	Nursing	Caregivers	No specific disease	D	I	TG	10	A&N1973	Theo; DA
Chiu 2011 [67]	USA	ql	E	General health care	Migrants, elderly individuals	No specific disease	D	I	TG	18	R-BMHSU1995	Theo; DC
Corboy et al. 2011 [68]	Australia	mm	A&S	Mental health care	Men; individuals living in rural areas	Cancer	A	I	TG, HP	12	R-BMHSU1995	DA
Goh 2011 [69]	Singapore	mm	P	Post-acute care services	Elderly individuals	No specific disease	A	I	TG, HP, NK	29	R-BMHSU1995, A&N1973, A&A1974, BMHSU	DA
Chiu 2010 [70]	USA	ql	E	E-health	Migrants; caregivers	Dementia	D	I	TG	14	R-BMHSU1995, A&N1973	Theo; DC
Gräßel et al. 2010 [71]	Germany	mm	CA	Caregiver counselling	Informal caregiver	No specific disease	A	Q	NK	306	A&N1973	Theo; DC; DA
Rööst et al. 2009 [72]	Bolivia	ql	AI	Natal care	Women; survivors of a severe pregnancy complication	No specific disease	A	I	TG	30	R-BMHSU1995	Theo
Andrasik et al. 2008 [73]	USA	ql	CA	Screening	Women; individuals with low socio-economic status	HIV	A	I	TG	35	R-BMHSU1995	Theo; DA
Butler et al. 2008 [74]	USA	ql	-	General health care	Women; individuals living in rural area	No specific disease	A	I	TG	8	R-BMHSU1995	Theo; DA
Herrera et al. 2008 [75]	USA	mm	-	Longterm care	Migrants	No specific disease	A	I	NK	66	R-BMHSU1995	Theo; DC; DA
Bradley et al. 2002 [76]	USA	ql	GT	Longterm care	Women; migrants; elderly individuals	Mental disorders	A	FG	TG	96	R-BMHSU1995	Theo
Go et al. 2002 [77]	Vietnam	ql	-	STD treatment	Women	STD	A	I	TG	36	R-BMHSU1995	DC; DA

Country – UK: United Kingdom, USA: United States of America

Methods – mm: mixed-method study; q: qualitative study

Methodological orientation: CA: Content analysis; E: Ethnography; GT: Ground Theory; P: Phenomenology; I: Iterative Categorisation; TA: Thematic analysis; AI: Analytic induction; A&S: Coding & Analysis Auerbach & Silverstein; TCM: Miles and Huberman's conceptual matrix (TCM); R&S: Framework analysis of Ritchie and Spencer; FA: Framework analysis

Disease of interest – TB: tuberculosis; STD: Sexually transmitted diseases

Data collection – I: Interview, FG: Focus group, O: Observation, DocA: Document analysis, Q: Questionnaire

Respondents – TG: target group, HP: Health professionals, NK: next of kin

Document type – A: Article, D: Dissertation

Model – BMHSU: Andersen 1968 [78]; A&N1973: Andersen and Newman's Framework of Viewing Health Services Utilization [79]; A&A1974: Aday and Andersen's Framework for the study of access to medical care [80]; R-BMHSU1995: Andersen 1995 [81]; A&D1997: Ethnicity, aging, and oral health outcomes: a conceptual framework [82]; UM1998: Phillips, Morrison, Andersen & Aday – Utilization Model [83]; BMVP2000: Behavioral Model for Vulnerable Populations [84]; A&D2001: Behavioral Model of Health Services Use including contextual and individual characteristics [85]; Ex-BMPF2002: expanded Andersen model with psychosocial factors in Long-Term Care [76]; A&N2005: Andersen & Newman Individual Determinants of Health Service Utilization; BMVP2007: Stein, Andersen & Gelberg [86]; BMHSU2008 Andersen 2008 [87]; A&D&B 2013: A behavioral model of health services use including contextual and individual characteristics [88]; mhealth PNE framework [89]

Theo: Theoretical background, DC: Data collection, DA: Data analysis

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