



University of Dundee

Gypsy, Roma and Traveller access to and engagement with health services

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Online supplementary tables

Table S1: Medline search strategy

- 1 Gypsies/ (643)
- 2 ((gypsy\$1 or gypsies or gipsy\$1 or gipsies) not (moth or moths or gypsyty3 or gypsy ty3 or ty3gypsy or ty3 gypsy)).ti,ab,kf. (1218)
- 3 (roma or romas or romany\$1 or romani or romanis or romanies).ti,ab,kf. (896)
- 4 (arli or arlis or ashkali or ashkalis or aurari or auraris or balkan egyptian or balkan egyptians or bashalde or bashaldes or boyash\$1 or churari or churaris or cigano or ciganos or erlide or erlides or gitano or gitanos or gitans or horahane or horahanes or kalderash\$1 or lalleri or lalleris or lingurari or linguraris or lovari or lovaris or ludar or ludars or ludari or ludaris or luri or luris or machvaya or machvayas or manouche or manouches or manush or manushs or manushes or modgar or modgars or modyar or modyars or romanichal or romanichals or romanichel or romanichels or romanis?l or romanis?ls or romungro or romungros or rudari or rudaris or tsigne or tsignes or ungaritza or ungaritzas or ursari or ursaris or yerlii or yerliis or zl?tari or zl?taris).ti,ab,kf. (45)
- 5 (sinti or sinta or sinte or sintis or sintas or sintes).ti,ab,kf. (15)
- 6 ceardannan\$1.ti,ab,kf. (0)
- 7 (yenish\$1 or yeniche\$1 or jenische\$1).ti,ab,kf. (0)
- 8 (quinqui\$1 or mercheros\$1).ti,ab,kf. (1)
- 9 kale.ti,ab,kf. not (exp Brassica/ or brassica\$.ti,ab,kf.) (154)

10 (fairground\$1 or fair-ground\$1 or funfair\$1 or fun-fair\$1 or showmen\$1 or show-men\$1 or showwomen\$1 or show-women\$1 or showperson\$1 or show-person\$1 or showpeople\$1 or show-people\$1 or show communit\$ or show travel?er\$1 or forains industriel).ti,ab,kf. (84)

11 (circuses or circus men\$1 or circus women\$1 or circus person\$1 or circus people\$1 or circus communit\$ or circus travel?er\$1).ti,ab,kf. (37)

12 (bargee\$1 or canal boat\$1 or barge\$1 or boat-dwell\$).ti,ab,kf. (134)

13 (pavee\$1 or minceir\$ or lucht\$1 or luchd\$1 or itinerants).ti,ab,kf. (9)

14 (travel?er\$1 and (communit\$ or family or families or irish or ireland\$ or eire or wales or welsh or scottish or scotland\$1 or highland\$1 or norwegian\$1 or norway\$1 or newage or new-age or itinerant\$1 or minorit\$ or ethnic\$ or halting site\$1 or caravan\$1)).ti,ab,kf. (790)

15 (travel?er\$1 adj1 (people\$ or person or persons or children\$1 or child\$1 or men or mens or male\$1 or women\$1 or female\$1 or population\$1 or group\$1 or site or sites)).ti,ab,kf. (176)

16 occupational travel?er\$1.ti,ab,kf. (3)

17 (travel?ing adj5 (communit\$ or family or families or irish or ireland\$ or eire or wales or welsh or scottish or scotland\$1 or highland\$1 or norwegian\$1 or norway\$1 or newage or new-age or itinerant\$1 or minorit\$ or ethnic\$ or site\$1 or caravan\$1)).ti,ab,kf. (213)

- 18 (travel?er\$1 or travel?ing).ti,ab,kf. and ("Transients and Migrants"/ or "Emigrants and Immigrants"/ or Vulnerable Populations/ or Minority Groups/ or Ethnic Groups/ or Cultural Characteristics/) (283)
- 19 travel?er\$1.ti. or travel?er\$1.ab. /freq=2 (5463)
- 20 exp Travel/ or Travel Medicine/ or "travel medicine & infectious disease".jn. or (travel or (travel\$ adj3 (oversea\$ or abroad\$ or international\$ or vacation\$ or holiday\$)) or (return\$ adj1 travel?er\$)).ti,ab,kf. (37994)
- 21 19 not 20 (605)
- 22 or/1-18,21 (4285)
- 23 exp Health Services Accessibility/ (86801)
- 24 Health Services/ (19356)
- 25 Community Health Services/ (27370)
- 26 Community Health Nursing/ (18569)
- 27 Community Health Planning/ (4523)
- 28 Community Health Workers/ (3432)
- 29 Community Mental Health Services/ (16839)
- 30 Community Health Centers/ (6075)

- 31 Nurses, Community Health/ (137)
- 32 Community Medicine/ (1904)
- 33 Community Pharmacy Services/ (3025)
- 34 Health Promotion/ (55721)
- 35 Communication/ (64668)
- 36 education/ (18651)
- 37 exp health education/ (139003)
- 38 (community adj (health\$ or mental or medicine\$ or pharmac\$ or service\$)).ti,ab,kf. (28670)
- 39 healthcare.ti,ab,kf. (108744)
- 40 (health\$ adj5 (care or service\$ or promotion\$1 or educat\$)).ti,ab,kf. (419902)
- 41 or/23-40 (818325)
- 42 Dental Care for Children/ (3076)
- 43 exp Dental Health Services/ (30519)
- 44 exp Dentistry/ or exp Dentists/ or exp Dental Staff/ (351263)
- 45 Dentist-Patient Relations/ (7641)

- 46 Oral Health/ (10842)
- 47 exp Periodontal Diseases/ or exp tooth diseases/ (194579)
- 48 (dental\$ or dentist\$).ti,ab,kf. (210600)
- 49 (oral adj2 (health\$ or care or hygiene or disease\$1 or service\$1)).ti,ab,kf. (29600)
- 50 ((teeth or tooth) adj3 decay\$).ti,ab,kf. (2058)
- 51 (plaque\$1 or caries).ti,ab,kf. (126753)
- 52 or/43-51 (595155)
- 53 exp Child/ or exp Infant/ or Adolescent/ (2938877)
- 54 (child\$ or infant\$ or newborn\$ or new-born\$ or neonat\$ or neo-nat\$ or baby\$ or babies or pediat\$ or paediat\$ or schoolchild\$ or preschool\$ or adolescen\$ or juvenile\$ or youth\$ or teenage\$ or youngster\$ or young people\$ or young person\$ or school\$1 or kindergarten\$1 or nursery or nurseries or early year\$1).ti,ab,kf. (1905244)
- 55 52 and (53 or 54) (118959)
- 56 (brushathon or smile month or smile4life or smile 4 life or smile for life or brushing for life or designed to smile or national oral health plan or child-smile or child smile or childsmile or smile with a prophet or winning smiles or (smokefree adj2 smiling) or smileathon or creative smiles or city smiles or smile sack or bright smiles).ti,ab,kf. (44)
- 57 42 or 55 or 56 (118977)

- 58 exp Maternal Health Services/ (36403)
- 59 Maternal-Child Health Centers/ (2188)
- 60 maternal welfare/ (6196)
- 61 (mother\$ or maternal\$ or maternity or childbear\$ or birth\$ or pregnant or pregnanc\$ or breastfeed\$ or breast feed\$ or breastfed\$ or breast fed\$ or lactating or lactation or conception or periconcept\$ or preconcept\$ or gestation\$ or pregestations\$ or prenatal\$ or pre-natal\$ or perinatal\$ or peri-natal\$ or antenatal\$ or ante-natal\$ or postpartum or post-partum or postnatal\$ or post-natal\$ or puerperium or puerperal).ti. (447813)
- 62 ((mother\$ or maternal\$ or maternity or childbear\$ or birth\$ or pregnant or pregnanc\$ or breastfeed\$ or breast feed\$ or breastfed\$ or breast fed\$ or lactating or lactation or conception or periconcept\$ or preconcept\$ or gestation\$ or pregestations\$ or prenatal\$ or pre-natal\$ or perinatal\$ or peri-natal\$ or antenatal\$ or ante-natal\$ or postpartum or post-partum or postnatal\$ or post-natal\$ or puerperium or puerperal) adj5 (service\$ or care or promotion\$1 or educat\$)).ab,kf. (47867)
- 63 (maternal-child or maternal-infant or mother-child or mother-infant).ab,kf. (10291)
- 64 Midwifery/ (15278)
- 65 Nurse Midwives/ (6100)
- 66 (midwif\$ or mid-wif\$ or midwiv\$ or mid-wiv\$).ti,ab,kf. (17550)
- 67 or/58-66 (498284)

- 68 exp Child Health Services/ (19643)
- 69 Adolescent Health Services/ (4542)
- 70 exp child welfare/ or infant welfare/ (29621)
- 71 (child\$ or infant\$ or newborn\$ or new-born\$ or neonat\$ or neo-nat\$ or baby\$ or babies or pediat\$ or paediat\$ or schoolchild\$ or preschool\$ or adolescen\$ or juvenile\$ or youth\$ or teenage\$ or youngster\$ or young people\$ or young person\$ or school\$1 or kindergarten\$1 or nursery or nurseries or early year\$1).ti. (1169696)
- 72 ((child\$ or infant\$ or newborn\$ or new-born\$ or neonat\$ or neo-nat\$ or baby\$ or babies or pediat\$ or paediat\$ or schoolchild\$ or preschool\$ or adolescen\$ or juvenile\$ or youth\$ or teenage\$ or youngster\$ or young people\$ or young person\$ or school\$1 or kindergarten\$1 or nursery or nurseries or early year\$1) adj5 (service\$ or care or promotion\$1 or educat\$)).ab,kf. (108806)
- 73 (sure start or surestart or new deal or newdeal or healthy start or healthystart).ti,ab,kf. (572)
- 74 or/68-73 (1219570)
- 75 exp Consumer Participation/ (32955)
- 76 community-institutional relations/ (9565)
- 77 hospital-patient relations/ (1820)
- 78 Professional-Family Relations/ (12310)
- 79 Professional-Patient Relations/ (22301)

- 80 Physician-Patient Relations/ (61626)
- 81 Nurse-Patient Relations/ (31300)
- 82 Community Networks/ (5714)
- 83 Community Integration/ (94)
- 84 Community-Based Participatory Research/ (2356)
- 85 Cooperative Behavior/ (31740)
- 86 exp Residence Characteristics/ (44803)
- 87 communit\$.ti. (112064)
- 88 (engag\$ or empower\$ or mobilis\$ or mobiliz\$ or co-operat\$ or cooperat\$ or outreach\$ or out-reach\$).ti,ab,kf. (292717)
- 89 (participat\$ or access\$ or barrier\$1 or facilitat\$).ti,ab,kf. (1128950)
- 90 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj4 (develop\$ or involv\$ or collaborat\$ or consult\$ or partner\$)).ti,ab,kf. (133228)
- 91 (health\$ adj (champion\$ or trainer\$1 or communit\$ or council\$1 or determinant\$1 or development\$1 or impact\$1 or improvement\$ or inequalit\$ or inequit\$ or people\$1 program\$)).ti,ab,kf. (18364)
- 92 (agent\$ adj2 chang\$).ti,ab,kf. (1926)

- 93 (volunteer\$1 or voluntary).ti,ab,kf. (192975)
- 94 stakeholder\$1.ti,ab,kf. (16452)
- 95 (lay adj (person\$1 or people\$1 or communit\$)).ti,ab,kf. (1549)
- 96 (delegat\$ adj2 power\$).ti,ab,kf. (23)
- 97 democratic renewal\$.ti,ab,kf. (1)
- 98 (coproduc\$ or co-produc\$).ti,ab,kf. (2316)
- 99 (need\$1 adj2 assess\$).ti,ab,kf. (10435)
- 100 (rapid adj2 (appraisal\$1 or assessment\$1)).ti,ab,kf. (3456)
- 101 (service\$1 adj2 (review\$ or user\$1)).ti,ab,kf. (4432)
- 102 (capacity adj2 build\$).ti,ab,kf. (3534)
- 103 (priorit\$ adj2 (set or sets or setting)).ti,ab,kf. (2984)
- 104 (strategic partnership\$1 or LSP or LSPs or JSNA or JSNAs).ti,ab,kf. (1020)
- 105 (social adj (capital\$1 or linking or cohesion or integration)).ti,ab,kf. (4209)
- 106 ((peer or peers) adj3 (led or leader\$ or educat\$ or train\$)).ti,ab,kf. (2900)
- 107 ((neighbourhood\$1 or neighborhood\$1) adj (manager\$1 or warden\$1 or renew\$)).ti,ab,kf. (21)

- 108 (social determinant\$1 or determinant effectiveness).ti,ab,kf. (2841)
- 109 (local adj (government\$1 or authorit\$)).ti,ab,kf. (5076)
- 110 coalition member\$.ti,ab,kf. (68)
- 111 (priorit\$ adj2 setting).ti,ab,kf. (2288)
- 112 development approach\$.ti,ab,kf. (440)
- 113 (partnership adj2 working).ti,ab,kf. (533)
- 114 social medicine\$1.ti,ab,kf. (2003)
- 115 intervention guidance.ti,ab,kf. (18)
- 116 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhoood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (alliance\$1 or audit\$ or orient\$ or decision\$ or support\$)).ti,ab,kf. (30524)
- 117 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhoood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1) adj2 relation\$).ti,ab,kf. (10795)
- 118 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhoood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (survey\$ or poll or polls or questionnaire\$1 or interview\$ or focus group\$1)).ti,ab,kf. (32773)

119 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (champion\$ or mentor\$ or leader\$ or advoca\$ or entrepren\$ or represent\$)).ti,ab,kf. (23634)

120 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (coalition\$ or group\$ or committee\$ or council\$ or workshop\$ or forum\$ or panel\$ or jury or juries or network\$ or organisation\$ or organization\$ or member\$)).ti,ab,kf. (121910)

121 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (input\$ or perspective\$ or view\$ or opinion\$ or contribut\$ or perception\$ or feedback\$ or idea or ideas or contribut\$ or dialogue\$ or voice\$ or articulat\$ or verbalis\$ or verbaliz\$ or communicat\$)).ti,ab,kf. (35134)

122 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (plan or plans or activit\$ or initiativ\$ or path or paths or pathway\$ or compact\$1 or agreement\$ or campaign\$ or educat\$ or inform\$ or promot\$ or action\$1 or regenerat\$ or re-generat\$ or integrat\$)).ti,ab,kf. (84910)

123 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (based or control\$ or led or driven or generate or generates or generated or owned or ownership\$ or deliberat\$ or governance)).ti,ab,kf. (202864)

124 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 links).ti,ab,kf. (635)

- 125 Trust/ (6223)
- 126 trust\$.ti,ab,kf. (29109)
- 127 (mistrust\$ or distrust\$ or entrust\$.ti,ab,kf. (3638)
- 128 ((communit\$ or citizen\$1 or public or local\$ or neighborhood\$1 or neighbourhood\$1 or area\$1 or population\$1 or resident\$1 or user\$1 or lay or consumer\$1 or family or families) adj2 (confiden\$ or belief\$ or believe\$ or faith)).ti,ab,kf. (4769)
- 129 or/75-128 (2303479)
- 130 41 or 57 or 67 or 74 or 129 (4209739)
- 131 22 and 130 (1539)
- 132 (Gypsies/ or (gypsy\$1 or gypsies or gipsy\$1 or gipsies or roma or romas or romany\$1 or romani or romanis or romanies or arli or arlis or ashkali or ashkalis or aurari or auraris or balkan egyptian or balkan egyptians or bashalde or bashaldes or boyash\$1 or churari or churaris or cigano or ciganos or erlide or erlides or gitano or gitanos or gitans or horahane or horahanes or kalderash\$1 or lalleri or lalleris or lingurari or linguraris or lovari or lovaris or ludar or ludars or ludari or ludaris or luri or luris or machvaya or machvayas or manouche or manouches or manush or manushs or manushes or modgar or modgars or modyar or modyars or romanichal or romanichals or romanichel or romanichels or romanis?l or romanis?ls or romungro or romungros or rudari or rudaris or tsigane or tsiganes or ungaritza or ungaritzas or ursari or ursaris or yerlii or yerliis or zl?tari or zl?taris or sinti or sinta or sinte or sintis or sintas or sintes or ceardannan\$1 or yenish\$1 or yeniche\$1 or jenkins\$1 or quinqu\$1 or mercheros\$1 or kale or fairground\$1 or fair-ground\$1 or funfair\$1 or fun-fair\$1 or showmen\$1 or show-men\$1 or showwomen\$1 or show-women\$1 or showperson\$1 or show-person\$1 or

showpeople\$1 or show-people\$1 or show communit\$ or show travel?er\$1 or forains industriel or circuses or circus men\$1 or circus women\$1 or circus person\$1 or circus people\$1 or circus communit\$ or circus travel?er\$1 or bargee\$1 or canal boat\$1 or barge\$1 or boat-dwell\$ or pavee\$1 or minceir\$ or lucht\$1 or luchd\$1 or itinerants or travel?er\$1 communit\$ or travel?er\$1 family\$1 or travel?er\$1 families or irish travel?er\$1 or welsh travel?er\$1 or scottish travel?er\$1 or highland\$1 travel?er\$1 or norwegian\$1 travel?er\$1 or newage travel?er\$1 or new-age travel?er\$1 or itinerant\$1 travel?er\$1 or minorit\$ travel?er\$1 or ethnic\$ travel?er\$1 or travel?er\$1 halting site\$1 or travel?er\$1 caravan\$1 or travel?er\$1 people\$1 or travel?er\$1 person or travel?er\$1 persons or travel?er\$1 children\$1 or travel?er\$1 child\$1 or travel?er\$1 men\$1 or travel?er male\$1 or travel?er\$1 women\$1 or travel?er female\$1 or travel?er\$1 population\$1 or travel?er\$1 group\$1 or travel?er\$1 site or travel?er\$1 sites or occupational travel?er\$1 or travel?ing communit\$).ti.) and (health\$ or care\$ or service\$ or program\$).ti. (189)

133 (Gypsies/ or (gypsy\$1 or gypsies or gipsy\$1 or gipsies or roma or romas or romany\$1 or romani or romanis or romanies or arli or arlis or ashkali or ashkalis or aurari or auraris or balkan egyptian or balkan egyptians or bashalde or bashaldes or boyash\$1 or churari or churaris or cigano or ciganos or erlide or erlides or gitano or gitanos or gitans or horahane or horahanes or kalderash\$1 or lalleri or lalleris or lingurari or linguraris or lovari or lovaris or ludar or ludars or ludari or ludaris or luri or luris or machvaya or machvayas or manouche or manouches or manush or manushs or manushes or modgar or modgars or modyar or modyars or romanichal or romanichals or romanichel or romanichels or romanis?l or romanis?ls or romungro or romungros or rudari or rudaris or tsigane or tsiganes or ungaritza or ungaritzas or ursari or ursaris or yerlii or yerliis or zl?tari or zl?taris or sinti or sinta or sinte or sintis or sintas or sintes or ceardannan\$1 or yenish\$1 or yeniche\$1 or jenkins\$1 or quinqui\$1 or mercheros\$1 or kale or fairground\$1 or fair-ground\$1 or funfair\$1 or fun-fair\$1 or showmen\$1 or show-men\$1 or showwomen\$1 or show-women\$1 or showperson\$1 or show-person\$1 or

showpeople\$1 or show-people\$1 or show communit\$ or show travel?er\$1 or forains industriel or circuses or circus men\$1 or circus women\$1 or circus person\$1 or circus people\$1 or circus communit\$ or circus travel?er\$1 or bargee\$1 or canal boat\$1 or barge\$1 or boat-dwell\$ or pavee\$1 or minceir\$ or lucht\$1 or luchd\$1 or itinerants or travel?er\$1 communit\$ or travel?er\$1 family\$1 or travel?er\$1 families or irish travel?er\$1 or welsh travel?er\$1 or scottish travel?er\$1 or highland\$1 travel?er\$1 or norwegian\$1 travel?er\$1 or newage travel?er\$1 or new-age travel?er\$1 or itinerant\$1 travel?er\$1 or minorit\$ travel?er\$1 or ethnic\$ travel?er\$1 or travel?er\$1 halting site\$1 or travel?er\$1 caravan\$1 or travel?er\$1 people\$1 or travel?er\$1 person or travel?er\$1 persons or travel?er\$1 children\$1 or travel?er\$1 child\$1 or travel?er\$1 men\$1 or travel?er male\$1 or travel?er\$1 women\$1 or travel?er female\$1 or travel?er\$1 population\$1 or travel?er\$1 group\$1 or travel?er\$1 site or travel?er\$1 sites or occupational travel?er\$1 or travel?ing communit\$).ti.) and (disadvantag\$ or disparit\$ or equalit\$ or equit\$ or gap or gaps or gradient\$1 or inequalit\$ or inequit\$ or unequal or variation\$1 or exclusion or excluded).ti,ab,kf. (168)

134 ((gypsy\$1 or gypsies or gipsy\$1 or gipsies or roma or romas or romany\$1 or romani or romanis or romanies or arli or arlis or ashkali or ashkalis or aurari or auraris or balkan egyptian or balkan egyptians or bashalde or bashaldes or boyash\$1 or churari or churaris or cigano or ciganos or erlide or erlides or gitano or gitanos or gitans or horahane or horahanes or kalderash\$1 or lalleri or lalleris or lingurari or linguraris or lovari or lovaris or ludar or ludars or ludari or ludaris or luri or luris or machvaya or machvayas or manouche or manouches or manush or manushs or manushes or modgar or modgars or modyar or modyars or romanichal or romanichals or romanichel or romanichels or romanis?l or romanis?ls or romungro or romungros or rudari or rudaris or tsigne or tsignes or ungaritza or ungaritzas or ursari or ursaris or yerlii or yerliis or zl?tari or zl?taris or sinti or sinta or sinte or sintis or sintas or sintes or ceardannan\$1 or yenish\$1 or yeniche\$1 or jenische\$1 or quinqu\$1 or mercheros\$1 or kale or fairground\$1 or fair-ground\$1

or funfair\$1 or fun-fair\$1 or showmen\$1 or show-men\$1 or showwomen\$1 or show-women\$1 or showperson\$1 or show-person\$1 or showpeople\$1 or show-people\$1 or show communit\$ or show travel?er\$1 or forains industriel or circuses or circus men\$1 or circus women\$1 or circus person\$1 or circus people\$1 or circus communit\$ or circus travel?er\$1 or bargee\$1 or canal boat\$1 or barge\$1 or boat-dwell\$ or pavee\$1 or minceir\$ or lucht\$1 or luchd\$1 or itinerants or travel?er\$1 communit\$ or travel?er\$1 family\$1 or travel?er\$1 families or irish travel?er\$1 or welsh travel?er\$1 or scottish travel?er\$1 or highland\$1 travel?er\$1 or norwegian\$1 travel?er\$1 or newage travel?er\$1 or new-age travel?er\$1 or itinerant\$1 travel?er\$1 or minorit\$ travel?er\$1 or ethnic\$ travel?er\$1 or travel?er\$1 halting site\$1 or travel?er\$1 caravan\$1 or travel?er\$1 people\$1 or travel?er\$1 person or travel?er\$1 persons or travel?er\$1 children\$1 or travel?er\$1 child\$1 or travel?er\$1 men\$1 or travel?er male\$1 or travel?er\$1 women\$1 or travel?er female\$1 or travel?er\$1 population\$1 or travel?er\$1 group\$1 or travel?er\$1 site or travel?er\$1 sites or occupational travel?er\$1 or travel?ing communit\$) and (develop\$ or involv\$ or collaborat\$ or consult\$ or partner\$ or alliance\$1 or audit\$ or orient\$ or decision\$ or support\$ or relation\$ or survey\$ or poll or polls or questionnaire\$1 or interview\$ or focus group\$1 or champion\$ or mentor\$ or leader\$ or advoca\$ or entrepren\$ or represent\$ or coalition\$ or group\$ or committee\$ or council\$ or workshop\$ or forum\$ or panel\$ or jury or juries or network\$ or organisation\$ or organization\$ or member\$ or input\$ or perspective\$ or view\$ or opinion\$ or contribut\$ or perception\$ or feedback\$ or idea or ideas or contribut\$ or dialogue\$ or voice\$ or articulats\$ or verbalis\$ or verbaliz\$ or communicat\$ or plan or plans or activit\$ or initiativ\$ or path or paths or pathway\$ or compact\$1 or agreement\$ or campaign\$ or educat\$ or inform\$ or promot\$ or action\$1 or regenerat\$ or re-generat\$ or integrat\$ or based or control\$ or led or driven or generate or generates or generated or owned or ownership\$ or deliberat\$ or governance or links or confiden\$ or belief\$ or believe\$ or faith)).ti. (279)

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143 remove duplicates from 142 (1064)

Table S2: Included studies

Study ID	First author and date; study groupings	Location(s)	Methods	Relevant study aim(s)	Health themes	Contribute to engagement strategies section	Contribute to barriers section
1	All Ireland Traveller Health Study Team 2010¹ All Ireland Traveller Health Study Team 2010 ² All Ireland Traveller Health Study Team 2011 ³ Kelleher 2012 ⁴	Ireland; UK	Quantitative and qualitative Cross-sectional survey Birth cohort study Interviews	To present the findings of the All Ireland Traveller Health Study, including an assessment of health	Accident and emergency Child health Dental health Immunisation Maternity Mental health	X	X

	McGorrian 2012 ⁵		Focus groups	status and experiences	Helplines		
	McGorrian 2013 ⁶			of health care	Primary health care		
					Sexual and reproductive health		
2	Alunni 2015 ⁷	Italy	Qualitative Ethnographic fieldwork	To present observations on a mobile medical unit delivering health care to Roma	Accident and emergency Immunisation Preventive services Unspecified or general health	X	X
3	Appleton 2003 ⁸	UK	Qualitative Phenomenology Interviews and	To explore the subject of mental health services, in relation to	Mental health Helplines Primary health care		X

			focus group discussions	Gypsy Traveller women		
4	Balazs 2012 ⁹	Hungary	Quantitative Retrospective cohort study and cross-sectional survey	To evaluate risk factors for low birth weight and preterm births for Roma and non-Roma	Maternity	
5	Basic-Jukic 2013 ¹⁰	Croatia	Quantitative Analysis of routine data Structured interviews	To investigate rates of dialysis and access to dialysis for Roma and non-Roma	Renal transplantation	X
6	Beach 2006 ¹¹	UK	Quantitative Secondary data analysis	To explore use of accident and emergency departments by Gypsy and Traveller children	Accident and emergency Child health	

				and settled contemporaries		
7	Bloom 2006 ¹²	Kosovo	Qualitative Focus groups and informal discussions	To explore health care in relation to ethnic groups, including Roma	Unspecified or general health services	X
8	Bristol Mind 2008 ¹³ Davies 2009 ¹⁴	UK	Qualitative Interviews and focus group discussions	To explore service support for hard to engage groups, including the Gypsy and Traveller community	Mental health Primary health care	X
9	Carrasco-Garrido 2010 ¹⁵	Spain	Quantitative Cross-sectional national health survey	To examine the health and prevention practices of Roma and non-Roma women	Accident and emergency Primary health care	X

					Sexual and reproductive health Preventative services	
10	Cohuet 2009 ¹⁶	UK	Quantitative Descriptive epidemiological study	To investigate an outbreak of measles in Irish Travellers	Immunisation	
11	Colombini 2012 ¹⁷	Albania, Macedonia, Bulgaria	Qualitative Focus group discussions	To explore access to sexual and reproductive health services for Roma	Health insurance Maternity Sexual and reproductive health	X
12	Cullen 2008 ¹⁸	UK	Qualitative	To present guidance for working with	Dental health	X

			Interviews and focus group discussions	housed Gypsies and Travellers	Primary health care		
13	Dar 2013 ¹⁹	UK	Quantitative Cross-sectional survey and geographical mapping	To estimate immunisation rates and services in relation to the Gypsy Traveller community	Immunisation	X	X
14	Dartnall 2005 ²⁰	UK	Qualitative Interviews and focus group discussions	To explore the subject of maternity services with hard to reach groups, including women from Travelling communities	Child Health Immunisation Maternity		X
15	Dental Department, HSE Dublin Mid-Leinster 2007 ²¹	Ireland	Quantitative	To present findings in relation to an oral	Dental health	X	X

			Before and after study	health promotion programme for Traveller families			
16	Dion 2008 ²²	UK	Qualitative Grounded theory	To explore the subject of health with Gypsy and Traveller women	Immunisation		X
17	Doyal 2002 ²³ Gallagher 2011 ²⁴	UK	Quantitative and qualitative Cross-sectional surveys	To identify health and local authority activities and services for Travellers	Addiction services Child Health Dental health Maternity Mental health Primary health care Sexual and reproductive health immunisation	X	

18	Duffy 2008 ²⁵	UK	Quantitative and qualitative Cross-sectional survey	To explore the subject of mental health and service provision with Irish Travellers and Romany Gypsies	Primary health care Mental health	X
19	East Riding Local Strategic Partnership 2008 ²⁶	UK	Quantitative Consultation	To detail council strategy in relation to Gypsies and Travellers	Dental health Primary health care	
20	Ekuklu 2003 ²⁷	Turkey	Quantitative Cross-sectional survey	To investigate use of health services by Roma and non-Roma	Health insurance Maternity Primary health care	
21	Ercoli 2015 ²⁸	Italy	Quantitative Routine data analysis	To investigate access to health services and vaccination in relation to immigrant children, including Roma	Immunisation	

22	European Monitoring Centre on Racism and Xenophobia 2003 ²⁹	Bulgaria, Finland, France, UK, Greece, Hungary, Ireland, Lithuania, Moldova, the Netherlands, Poland, Romania, Serbia, Montenegro, Slovakia, Spain	Qualitative Interviews and questionnaires	To explore access to health care for Romani women	Ambulance services Maternity Sexual and reproductive health Unspecified or general health	X	X
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23	Flecha 2013 ³⁰	Spain	Quantitative and qualitative Communicative methodology case study	To present findings from the INCLUDE-ED study related to educational activities involving Roma families	Primary health care Child health	X
24	Francis 2010 ³¹ Francis 2011 ³² Francis 2013 ³³	UK	Qualitative Multi-method	To explore cultural competence and attitudes with health professionals in relation to Gypsy Travellers	Mental health	X
25	Friends, Families and Travellers 2013 ³⁴	UK	Quantitative and qualitative Cross-sectional survey and interviews	To explore use of health services by Gypsies and Travellers	Accident and emergency Maternity Immunisation	X

26	Gavin 2014 ³⁵	UK	Quantitative and qualitative Combined methodology of engagement techniques	To explore health service access and improvement with Gypsies and Travellers	Health records	X
27	Gavin 2014 ³⁶	UK	Quantitative and qualitative Combined methodology of engagement techniques	To explore the subject of medical record sharing with Gypsies and Travellers	Primary health care Health records	X
28	Goward 2006 ³⁷	UK	Qualitative Interviews and focus group discussions	To explore the subject of mental health services and their improvement with Gypsies and Travellers	Mental health	X

29	Gray 2013 ³⁸	UK	Qualitative	To explore experiences in relation to autistic spectrum disorder for mothers and children who are Irish Travellers and non-Travellers	Child health			X
30	Greenfields 2013 ³⁹	UK	Quantitative and qualitative Cross-sectional survey and interviews	To present findings on the health needs and health service access of Gypsies, Travellers, Boaters, Showmen and Roma	Accident and emergency Addiction services Child health Dental health Health records Immunisation Maternity Mental health Helplines	X		X

					Preventive services		
					Primary health care		
					Sexual and reproductive health		
31	Griffiths 2013 ⁴⁰	UK	Qualitative Health needs assessment	To present findings of a health needs assessment for Gypsy Travellers	Accident and emergency Dental health Immunisation Mental health Preventive services Primary health care	X	X

					Sexual and reproductive health	
32	Gyukits 2006 ⁴¹	Hungary	Quantitative Cross-sectional survey	To explore the health and health service use of Roma and non-Roma young women	Dental health Preventive services Sexual and reproductive health	
33	Hall 2009 ⁴²	UK	Quantitative and qualitative Case study	To explore the use of urgent care services, and potential alternatives, in relation to Gypsies and Travellers	Accident and emergency Ambulance services Helplines Primary health care	X

34	Ho 2004 ⁴³	Spain	Quantitative Cross-sectional survey	To explore the difficulties of treating different cultural groups, including Romani	Unspecified or general health	X
35	Hodgins 2006 ⁴⁴	Ireland	Qualitative Focus group discussions	To explore the perceptions of the causes of illness and health inequalities with Traveller women	Unspecified or general health	X
36	Hodgins 2012 ⁴⁵	Ireland	Qualitative Focus group discussions	To explore health in relation to Traveller men	Unspecified or general health	X
37	Idzerda 2011 ⁴⁶	Serbia	Quantitative Routine data analysis	To examine access and barriers to primary care services for the general population,	Child health Health insurance Primary health care	X

				Roma and the poorest quintile		
38	Iraurgi 2000 ⁴⁷	Spain	Quantitative Retrospective cohort study	To compare retention to a drug addiction treatment programme for Gypsies and non-Gypsies	Addiction services	X
39	Janevic 2011 ⁴⁸	Serbia, Macedonia	Qualitative Focus groups Interviews	To identify access barriers and explore racism/discrimination in relation to prenatal and maternity care access for Romani women	Health insurance Maternity Sexual and reproductive health	X
40	Jarcuska 2013 ⁴⁹ Bobakova 2015 ⁵⁰ (The HepaMeta study)	Slovakia	Quantitative Cross-sectional survey	To explore health service barriers and influence of social	Unspecified or general health services	X

				support with Roma and non-Roma		
41	Jarosova 2009 ⁵¹	Czech Republic	Quantitative Before and after evaluation	To describe a Romany health and social assistant course	Child health Dental health Maternity Primary health care Sexual and reproductive health	X
42	Jesper 2008 ⁵²	UK	Qualitative Interviews and observation	To explore health care access and terminal care with English Gypsy Travellers	Accident and emergency End of life/palliative care Primary health care	X

43	Kanapeckiene 2009 ⁵³	Lithuania, Latvia	Quantitative Cross-sectional survey	To compare health indicators of Roma and non-Roma children	Child health Primary health care	
44	Kipping 2013 ⁵⁴	UK	Quantitative and qualitative Health needs assessment	To assess the health needs of Gypsies and Travellers	Dental health Immunisation Preventive services Primary health care	X
45	Kolarcik 2009 ⁵⁵	Slovakia	Quantitative Cross-sectional survey	To compare health outcomes for Roma and non-Roma adolescents	Unspecified or general health services	
46	Kosa 2007 ⁵⁶	Hungary	Quantitative Cross-sectional survey	To compare the health of Roma and non- Roma	Dental health services	X

					Preventive services	
					Unspecified or general health services	
47	Kotrotsiou 2014 ⁵⁷	Greece	Quantitative Cross-sectional survey	To explore psychological health and related aspects with Roma people	Health insurance Unspecified or general health services	X
48	Kraigher 2006 ⁵⁸	Slovenia	Quantitative Routine data analysis	To assess vaccination levels of Roma children	Child health Immunisation	X
49	Kuhlbrandt 2014 ⁵⁹	Albania, Bosnia & Herzegovina, Bulgaria, Croatia,	Quantitative Secondary analysis of household survey data	To examine health insurance held by Roma and non-Roma	Health insurance	X

		Czech Republic, Hungary, Macedonia, Moldova, Montenegr o, Romania, Serbia, Slovakia				
50	Lehti 2001 ⁶⁰	Sweden	Qualitative Grounded theory	To explore primary health care use by Gypsy women	Primary health care	
51	Lidster 2013 ⁶¹	UK	Quantitative and qualitative Needs assessment	To present evaluation of drug and alcohol provision for Gypsies and Travellers	Accident and emergency Addiction services	X

					Primary health care		
52	Lloyd 2011 ⁶²	UK	Qualitative Interviews, questionnaire and case studies	To describe health fayres and explore mental health and wellbeing with Gypsy/Traveller women	Mental health Primary health care	X	X
53	Logar 2015 ⁶³	Slovenia	Qualitative Interviews	To explore access to primary healthcare and gynaecological services for Roma women	Health insurance Maternity Primary health care Preventive services Sexual and reproductive health	X	X

54	Lomax 2000 ⁶⁴	UK	Quantitative and qualitative Cross-sectional survey, focus group discussions	To obtain views about sites, services and lifestyle from Travellers	Dental health Primary health care Child health	X	X
55	Maltezou 2012 ⁶⁵	Greece	Quantitative Cross-sectional survey	To examine acceptance of influenza vaccine for Roma and non-Roma neonates	Child health Immunisation		X
56	Mellou 2015 ⁶⁶	Greece	Quantitative Descriptive analysis, ARIMA modelling, time series	To examine hepatitis A epidemiological data and discuss universal vaccination, including for Roma	Child health Immunisation		

			intervention analysis				
57	McQuillan 2007 ⁶⁷	Ireland	Quantitative and qualitative Survey and focus group discussions	To explore experiences of palliative care services in relation to Irish Travellers	End of life/palliative care		X
58	Molnar 2012 ⁶⁸	Bulgaria, Hungary, Lithuania, Slovakia	Quantitative and qualitative Survey and focus group discussions	To present health impact assessments on housing policies for Roma	Unspecified or general health services		
59	Monasta 2005 ⁶⁹	Italy	Qualitative Community- based participatory research	To explore the health, including health service access, of Roma living in camps	Accident and emergency Child health Dental health Immunisation	X	X

			Ethnography		Maternity	
			Interviews and observation		Preventive services	
					Primary health care	
					Sexual and reproductive health	
60	Nesvadbova 2000 ⁷⁰	Czech Republic	Quantitative Cross-sectional survey	To explore the health (and related aspects) of the Romany population	Health insurance Primary health care	X
61	NHS Leeds West Clinical Commissioning Group 2015 ⁷¹	UK	Quantitative and qualitative Survey and focus group discussions	To explore access to health services for Gypsies and Travellers	Accident and emergency Immunisation Maternity Mental health	X

					Preventive services	
					Primary health care	
					Sexual and reproductive health	
62	NHS Scotland 2001 ⁷²	UK	Qualitative Survey	To examine health policies and practices for ethnic minority groups, including Gypsy Travellers	Accident and emergency Immunisation Preventive services Primary health care	X
63	Office for Public Management 2010 ⁷³	UK	Qualitative Interviews	To examine health and social care needs of Gypsies and Travellers	Child health Dental health Maternity	X

64	Papadopoulos 2005 ⁷⁴ Papadopoulos 2007 ⁷⁵	UK	Qualitative Participatory methods Culturally competent focus group discussions	To explore health promotion with minority ethnic groups including Gypsy Travellers	Unspecified or general health services Child health Dental health Helplines Immunisation Sexual and reproductive health	X
65	Parry 2004 ⁷⁶	UK	Quantitative and qualitative Cross-sectional survey and interviews	To explore health experiences, beliefs, and attitudes with Gypsy Travellers and other groups	Accident and emergency Dental health Helplines Maternity Mental health	X

					Primary health care	
					Sexual and reproductive health	
66	Pavlic 2011 ⁷⁷	Slovenia	Qualitative	To explore health beliefs and practices with Roma people	Primary health care	X
67	Pavlovski 2008 ⁷⁸	Macedonia	Quantitative and qualitative	To examine health, healthcare services and health insurance in relation to the Roma population	Child health Immunisation Health insurance Maternity Preventive services Primary health care	X
			Cross-sectional survey and interviews			

						Sexual and reproductive health		
68	Petek 2006 ⁷⁹	Slovenia	Qualitative Focus group discussions	To explore smoking behaviour with Roma	Primary health care			X
69	Peters 2009 ⁸⁰	UK	Quantitative Cross-sectional survey	To examine the health status of black and minority ethnic individual, including Gypsies and Travellers, and the mixed White population	Accident and emergency Child Health Dental health Helplines Mental health Primary health care			
70	Poole 2009 ⁸¹	UK	Qualitative Needs assessment	To examine the needs of the Roma population and	Immunisation Primary health care	X		X

				develop			
				understanding to			
				inform strategies			
				(including health)			
71	Priebe 2012 ⁸²	Austria,	Qualitative	To examine mental	Addiction services	X	X
	Priebe 2013 ⁸³	Belgium,	Interviews	health care and	Mental health		
	Welbel 2013 ⁸⁴	Czech		addiction treatment in			
		Republic,		relation to			
		France,		marginalised groups,			
		Germany,		including the			
		Hungary,		Travelling community			
		Ireland,					
		Italy, the					
		Netherland					
		s, Poland,					
		Portugal,					
		Spain,					

		Sweden, UK				
72	Rechel 2009 ⁸⁵	Bulgaria	Qualitative Grounded theory Interviews	To explore access to child health services for Roma	Accident and emergency Ambulance service Child health Immunisation Health insurance Maternity Primary health care	X
73	Reid 2007 ⁸⁶	Ireland	Qualitative Feminist methodology Interviews	To explore maternity care experiences with Traveller women	Child health Maternity Mental health Preventive services	X

74	Roman 2013 ⁸⁷	Romania	Qualitative Focus group discussions	To explore the subject of healthcare with Roma and describe the role of Roma health mediators	Health insurance Unspecified or general health	X	X
75	Roman 2013 ⁸⁸ Roman 2014 ⁸⁹	Romania	Qualitative Interviews	To explore autonomy and decision-making where a poor prognosis is given and to explore illness, dying and death with Roma	End of life/palliative care		X
76	Sedlecky 2015 ⁹⁰	Serbia	Quantitative and qualitative Cross-sectional surveys	To examine the sexual and reproductive health of Roma and general population women	Health insurance Maternity Sexual and reproductive health	X	X

77	Short 2007 ⁹¹	Bulgaria	Quantitative Cross-sectional survey: health household expenditure diary, standardised household questionnaire	To explore health insurance, health services and resources, including in relation to Roma	Child health Health insurance Unspecified or general health		X
78	Sigerson 2013 ⁹²	UK	Qualitative Interviews	To explore health care access and continuity of care for Gypsy/Travellers	Child health Dental health Health records Immunisation Mental health Preventive services	X	X

					Primary health care	
					Sexual and reproductive health	
79	Sivic 2013 ⁹³	Bosnia & Herzegovina	Quantitative Cross-sectional survey	To explore social exclusion and health status with Roma	Accident and emergency Child health Dental health Health insurance Immunisation Primary health care Sexual and reproductive health	X

80	Smith 2013 ⁹⁴ Ruston 2013 ⁹⁵	UK	Qualitative Social network theory Interviews	To explore social networks, racism and health behaviours and to explore risks to health with Gypsies and Travellers	Accident and emergency Child health Primary health care			X
81	Smolinska-Poffley 2012 ⁹⁶	UK	Quantitative and qualitative Realist and participatory methods	To evaluate the Roma mental health advocacy project	Mental health	X		X
82	Stables 2014 ⁹⁷	UK	Quantitative and qualitative Action research based on case studies	To explore engagement with services, including health, with Gypsy Roma Traveller community members	Unspecified or general health	X		X

83	Stefanoff 2010 ⁹⁸	Poland	Quantitative Linked data analysis	To assess immunisation rates with Roma	Immunisation			X
84	Sweeney 2015 ⁹⁹	UK	Qualitative Interviews and focus group discussions	To explore hepatitis B and C screening and treatment with high- risk minority ethnic groups, including Roma	Immunisation Preventive services Primary health care			X
85	Tavares 2001 ¹⁰⁰	UK	Qualitative Participatory action research	To explore health needs of Gypsies and Travellers	Accident and emergency Child health Dental health Primary health care	X		X

					Sexual and reproductive health	
86	Thomason 2006 ¹⁰¹	UK	Quantitative and qualitative Cross-sectional survey	To explore the needs, including in relation to health, of Gypsy/Traveller communities	Accident and emergency Dental health Helplines Primary health care	X
87	Tobi 2010 ¹⁰²	UK	Quantitative and qualitative Health Needs assessment	To assess health and social care needs of Eastern European communities, including Roma	Addiction services Disability Mental health Primary health care Sexual and reproductive health	X

88	Treise 2006 ¹⁰³	UK	Qualitative Interviews	To explore the subject of mental health with Roma women	Mental health	X	X
89	Twiselton 2009 ¹⁰⁴	UK	Quantitative and qualitative Cross-sectional survey and interviews	To assess health needs of Gypsy Travellers	Accident and emergency Dental health Immunisation Primary health care		X
90	Vakfari 2011 ¹⁰⁵	Greece	Quantitative Cross-sectional survey	To determine rates of and compliance with cervical cancer screening	Preventive services Sexual and reproductive health		x
91	Van Cleemput 2007¹⁰⁶ Van Cleemput 2010 ¹⁰⁷	UK	Qualitative	To explore health beliefs and experiences and to	Child health Preventive services		X

			In-depth focus group discussions	explore health impact of exclusion with Gypsies and Travellers	Primary health care		
92	Van Cleemput 2009 ¹⁰⁸	UK	Qualitative Participatory action research	To explore health beliefs and experiences, barriers to health service access and communication with health services, for Gypsies and Travellers	Primary health care		X
93	Van Cleemput 2010 ¹⁰⁹	UK	Quantitative and qualitative Evaluation	To evaluate the Gypsy and Traveller strand of the Pacesetters Programme	Health records Maternity Primary health care	X	X
94	Van Hout 2008 ¹¹⁰	Ireland	Qualitative Interviews	To assess drug use with young Travellers	Addiction services		X

95	Van Hout 2009 ¹¹¹	Ireland	Qualitative	To explore Travellers'	Accident and			X
	Van Hout 2010 ¹¹²		Needs analysis	drug and alcohol use	emergency			
	Van Hout 2010 ¹¹³		using		Addiction services			
	Van Hout 2010 ¹¹⁴		participatory					
	Van Hout 2011 ¹¹⁵		methods					
96	Van Hout 2010 ¹¹⁶	Ireland	Qualitative	To explore health and	Accident and	X		X
			Focus group	health service use of	emergency			
			discussion	Travellers	Addiction services			
					Child health			
					Disability			
					Immunisation			
					Maternity			
					Mental health			
97	Vukovic 2011 ¹¹⁷	Serbia	Qualitative	To explore knowledge	Primary health			X
			Focus group	and beliefs about	care			
			discussions	tuberculosis with				
				Roma				

98	Walsh 2007 ¹¹⁸	Canada	Qualitative	To explore service	Child health			X
	Walsh 2008 ¹¹⁹		Interviews and	needs and provision in	Immunisation			
	Walsh 2011 ¹²⁰		focus group	relation to Roma,	Maternity			
			discussions	including children				
99	Wemyss 2015 ¹²¹	UK	Quantitative	To review whether	Unspecified or	X		X
			and qualitative	Joint Strategic Needs	general health			
			Joint strategic	Assessments include				
			needs	Gypsy Travellers needs				
			assessment					

Table S3: References to studies by categories of barriers

Barrier	References to studies
Health Service Issues	
Registration difficulties (n = 20)	1, 18, 20, 25, 34, 39, 40, 52, 61, 64, 71, 74, 86, 92, 94, 101, 102, 104, 108, 109
Lack of correct documentation e.g. proof of identity, medical insurance card (n = 16)	1, 7, 17, 29, 46, 72, 73, 76, 78, 85, 88, 90, 92, 99, 111, 118
Refused services or site visits (n = 13)	1, 29, 35, 69, 72, 74, 76, 85, 98, 100, 108, 116, 121
Difficulties accessing services (n = 28)	1, 13, 17, 20, 29, 35, 39, 40, 42, 46, 48, 49, 69, 71, 76, 78, 82, 85, 93, 100, 101, 102, 104, 105, 108, 111, 116, 121
Poor quality services (n = 10)	13, 35, 40, 42, 44, 78, 81, 82, 94, 104
Health service lack of data on population or health needs (n =12)	1, 13, 19, 39, 67, 74, 76, 104, 109, 111, 116, 121
Discrimination and negative attitudes of health service personnel	
Segregation of patients (n = 1)	22
Attitudes of health service personnel (n = 39)	1, 13, 17, 20, 25, 29, 31, 34, 35, 37, 38, 39, 40, 42, 44, 48, 52, 62, 63, 64, 67, 70, 72, 73, 76, 78, 85, 86, 90, 94, 100, 101, 102, 103, 106, 108, 109, 111, 118
Poor communication and relationships (n = 19)	1, 17, 42, 44, 48, 63, 71, 74, 78, 81, 85, 86, 87, 88, 94, 96, 100, 106, 116

Culture and language

Need for better cultural awareness and diversity training (n = 25)	13, 18, 25, 31, 35, 39, 67, 71, 74, 76, 81, 82, 85, 87, 92, 96, 97, 102, 103, 104, 106, 109, 111, 116, 118
Cultural issues e.g. role of family and numbers of family visitors, gender of health care professional, sensitive topics (n = 20)	1, 8, 20, 29, 39, 40, 42, 43, 48, 52, 67, 73, 79, 86, 87, 88, 101, 104, 106, 111
Stigma and shame (n = 21)	1, 13, 22, 25, 31, 37, 40, 45, 48, 61, 62, 76, 86, 87, 88, 96, 99, 102, 108, 111, 116
Mobile lifestyle (n = 11)	13, 18, 35, 37, 38, 39, 42, 52, 54, 67, 72
Language difficulties and lack of interpreters (n = 12)	7, 81, 82, 85, 87, 88, 90, 96, 97, 99, 102, 118

Health literacy

Lack of knowledge of how health system works (n = 32)	1, 7, 17, 19, 20, 21, 25, 29, 34, 37, 40, 44, 48, 52, 61, 71, 78, 81, 82, 92, 94, 96, 97, 102, 103, 104, 105, 110, 111, 116, 117, 118
Difficult accessing relevant health information (n = 9)	31, 45, 62, 73, 74, 85, 96, 99, 109
Lack of understanding of medical terminology (n = 8)	17, 48, 67, 71, 76, 87, 88, 96

Poor functional literacy (n = 25)	1, 36, 38, 39, 40, 52, 63, 67, 69, 71, 74, 85, 86, 87, 92, 94, 96, 97, 99, 100, 101, 103, 104, 106, 111
Service-user attributes	
Age and gender (n = 17)	1, 20, 39, 45, 49, 57, 58, 62, 63, 70, 73, 78, 86, 90, 91, 100, 105
Preference relying on family/self/alternative therapies to deal with health problems (n = 21)	1, 13, 20, 35, 40, 49, 52, 62, 63, 67, 71, 76, 77, 88, 94, 96, 103, 106, 108, 111, 117
Concerns about health services; fear, mistrust, previous poor experiences (n = 39)	1, 7, 8, 12, 13, 20, 22, 29, 38, 39, 40, 44, 48, 49, 52, 62, 63, 67, 71, 73, 76, 78, 85, 86, 87, 88, 92, 94, 96, 97, 100, 102, 105, 106, 108, 111, 116, 117, 118
Economic	
Unable to afford cost of care or lack of economic resources (n = 18)	1, 17, 29, 39, 46, 48, 49, 63, 70, 71, 76, 78, 85, 87, 90, 91, 111, 118

Table S4: Studies reporting engagement strategies in detail

Study	Location	Engagement strategy theme	Engagement strategy	Key aspects of the strategy and available outcomes
All Ireland Traveller Health Study Team 2010*	Ireland	Specialist role	Traveller Healthcare Workers	Role involves advocating for Travellers and mediating with health services. Workers able to reach out to the Traveller community and facilitate relationships with health services and accessibility of health information; and offer support in relation to female health matters. Personal benefits for Healthcare Workers include increased trust, knowledge and confidence.
Alunni 2015	Italy	Outreach	Mobile medical unit	Delivery of healthcare to Roma living in camps. Staffed by a doctor, nurse and cultural mediator. Outcomes include successful provision of medical support to patients, but also possible further exclusion from mainstream health services.

Dar 2013	UK	Dedicated services	Health staff and services	<p>Healthcare provided to Gypsies and Travellers by a range of staff including specialist health visitors, on site in some cases. Includes health promotion, health assessments and immunisations.</p> <p>72/135 Primary Care Trusts identified at least one local authority providing a service to improve Gypsy Travellers' health, including liaison to access health care. 26/135 indicated that this role is fulfilled by health visitors, immunisation nurses and child services. Vaccination uptake estimated for different regions.</p>
Dental Department, Health Services Executive Dublin Mid-Leinster 2007	Ireland	Collaborative working	Involving community members	<p>Primary Health Care Programme for Travellers. Collaboration between health services, agencies and Travellers; using culturally appropriate approaches to address poor health status. Includes input from a public health nurse, community development health worker and community health workers for Travellers (who are Travellers themselves and trained in their role).</p> <p>Output includes oral health needs assessment for Travellers.</p>
		Raising health awareness	Training programme	<p>Strand one of Travellers Oral Health Promotion Programme. Involves delivery of training programme on oral health issues to Community</p>

				Health Workers for Travellers, and subsequent aim of sharing information more broadly with community via word of mouth and presentation.
				Received a positive evaluation and plans to expand were noted.
		Dedicated services	Health staff	Strand two of Travellers Oral Health Promotion Programme. Clinical dental programme for Traveller children, involving creation of register and matching of families to community dental surgeons to receive treatment. Included an element of staff cultural training and creation of culturally appropriate Standard Operating Procedures.
				Received some negative evaluation with objectives unmet, and plans for modification before expansion were noted.
Doyal 2002*	UK	Dedicated services	Health staff and procedures	Increased provision related to Gypsies and Travellers between 2002 and 2011.
				In 2011, 13/14 local partnerships had a named person for Traveller health and 9/14 had health forums. 10/13 Local Authorities /Primary Care Trusts published policy statements on Gypsy and Traveller health

and/or services, and 6/12 included this community in the Joint Strategic Needs Assessment.

European Monitoring Centre 2003	Europe, (Focus on Romania)	Specialist role	Roma Health Mediators	Role involves providing information and health services (including promoting mother and child health) for Roma. Outcomes include increased GP registration and infant vaccination.
Flecha 2013	Spain	Raising health awareness	Participatory education	Roma families and community members taking part in classroom learning. Outcomes include increased awareness and discussion about health and more effective interaction with health care providers; and increased wellbeing of participants. Parents trust those taking part in the programme to help with the health of their children.
Greenfields 2013	UK	Dedicated services	Health staff	Focus on specialist health visitors for the Gypsy and Traveller community. Role was known to health visitors and nurses but there was less awareness from other health professionals and community members.
		Handheld records	Handheld records	Health record held by patient and at central location.

				Used by a small number of New Travellers but other Gypsies and Travellers would be interested in their use. Health professionals indicated potential value.
Griffiths 2013	UK	Outreach	Health services	<p>Healthcare provided to Gypsies and Travellers by a range of professionals, including oral health and health visitor.</p> <p>Children may share health information with adults and health professionals can help arrange additional health appointments Trusting relationships are important in this work. Resources affect professionals' level of involvement.</p>
Jarosova 2009	Czech Republic	Specialist role	Roma Health and Social Assistants	<p>Twenty women who already had a trusting relationship with the Romany community enrolled.</p> <p>Assistants' work deemed beneficial by clients; health staff reported improved communication and cooperation with patients; health checks with GPs, gynaecologists and dentists increased; health information increased; and trust towards doctors increased.</p>
Lloyd 2011	UK	Raising health awareness	Health fair	Included workshops and health checks.

				<p>Attended by twenty Gypsy and Traveller women from council and private sites and housed and roadside accommodation. Increased health awareness and positive feedback about the event from attendees.</p>
Logar 2015	Slovenia	Raising health awareness	Education programme	<p>Focus on reproductive health. Offered to Roma women by health centre and on settlements.</p> <p>Participants felt positively about the programme and offered advice to ensure continued success.</p>
Lomax 2000	UK	Outreach	Health services	<p>Healthcare provided to Gypsies and Travellers by a range of professionals to local authority and private sites. Regular health clinic, including oral health.</p> <p>May be useful if difficult to access regular services.</p>
Monasta 2005	Italy	Outreach	Health services	<p>Healthcare provided to Roma adults and children by a range of professionals.</p> <p>Terminated to encourage community to take increased responsibility for their health.</p>

Poole 2009	UK	Dedicated services	Bridging work	Community centre work to connect Roma community to health services. Increased service use and improved relationships.
			Professionals group	Dialogue and sharing practice between healthcare, social work and practice managers in relation to Roma community. Interesting ideas developed by the group.
Priebe 2012*	14 European capital cities	Dedicated services	Mental health and addiction services	Provision of mental health and addiction services for members of Travelling communities. Mental health services identified in Dublin (n=5), London (n=3), Vienna (n=2) and Paris (n=1). Includes outreach and collaboration with patients. Substance abuse services identified in Rome (n=4), Dublin (n=2), London (n=1), Paris (n=1), Vienna (n=1) and Warsaw (n=1).
Roman 2013*	Romania	Specialist role	Roma Health Mediators	Role involved mediating between Roma community members and health services. Importance of interpretation skills (language and culture) to facilitate discussion, as well as trust towards the Mediators. Health and access benefits for patients. Mediators increasingly involved in healthcare.

Sedlecky 2015	Serbia	Specialist role	Roma Health Mediators	Role involves improving Roma people's knowledge about accessing health services. Mediators receive training and work with primary health care centres and settlements.
Sigerson 2013	UK	Outreach	Health services	Healthcare provided to Gypsies and Travellers by a range of professionals, including health visitors and Keep Well. Include disseminating health information and needs assessments. Communication with services users may improve since they are in a familiar environment. Importance of being proactive and quick response.
		Dedicated services	Clinic	Healthcare provided to Roma, led by health visitors and includes a focus on infant health. Attendance may improve since appointments are more immediate, but may also facilitate exclusion from mainstream services. Engagement may be further facilitated by additional free services or incentives.
		Raising health awareness	On site/events	Directed at Gypsies and Travellers, includes site visits by student nurses and events for members of the public, including in relation to service availability.

Smolinska-Poffley 2012	UK	Handheld records	Handheld records	Development and use of records for Gypsy and Traveller community, including consultation with community. Positive feedback about the concept and professionals aware of records. Low utilisation of the records and negative feedback about their use.
		Training for staff	Culture and health training	Includes collaboration with Gypsies, Traveller and Roma community, site managers, and voluntary organisations.
		Dedicated services	Advocacy	Mental health advocacy involving Roma Support Group. Importance of fostering trust and shared control. Over 100 Roma community members supported and information provided to an additional 50 individuals. Positive feedback from service users about the project.
		Raising health awareness	Theatrical production	Involved Roma Support Group and community members. Production meetings offered supportive environment for Roma community members. Positive feedback from community members about participation.

		Training for staff	Culture and health training	Work involving Roma Support Group to train mental health professionals around Roma community needs.
Stables 2014	UK	Outreach	Health services	Healthcare provided to Gypsies and Travellers by community health visitor and early years' worker. Findings include importance of being non-judgemental, building trust, consistency and reliability.
Tavares 2001	UK	Dedicated services	Multi-agency partnership	Travellers Health Partnership which includes health professionals and Gypsy and Traveller community members. Source of discussion, knowledge and support for members.
Treise 2006	UK	Outreach	Community group	Cambridgeshire Travellers Initiative. Some outreach workers had links to the Gypsy and Traveller community. May facilitate relationships (including trust) between health professionals and community.
Van Cleemput 2010	UK	Specialist role	Health Ambassadors	Thirty Gypsy and Traveller community members received training for this role.

		Positive feedback received from Ambassadors about their training. Cultural training delivered to approximately 800 professionals and positive feedback received from those who attended.
	Peer Educators	Five Gypsy and Traveller community members trained for this role. Positive feedback received about the training.
Dedicated services	Directory of services	Intended for distribution by site managers, specialist health visitors and Travellers education to Gypsies and Travellers living on sites and in housing.
Raising health awareness	Theatrical production	Involved Roma Support Group, directed at Roma community, with a focus on mental health issues. Production successfully delivered and positively received by community.
	Community awareness	Involved Roma Support Group, directed at Roma community, with a focus on health issues. Findings include positive feedback about awareness event attended by at least 60 community members.

	Health course	<p>Introduction to Community Development and Health course delivered to Gypsy and Traveller women.</p> <p>Attitudes towards the course initially positive but diminished over time and course terminated.</p>
Handheld records	Handheld records	<p>Development of the Personal Adult Health Record for use by Gypsies and Travellers.</p> <p>Fourteen training sessions involving 229 staff took place and positive feedback was received. Records remained largely undistributed at the time of evaluation.</p>
Training for staff	Culture and health training	<p>Delivered by Leeds Gypsy and Traveller Exchange, and Gypsy and Traveller community members.</p> <p>Attended by 55 people and positive feedback received. Value of involving community members highlighted.</p> <p>Gypsies and Travellers, as peer educators, delivered training for health professionals.</p> <p>Not delivered at time of evaluation.</p> <p>Involved Roma Support Group and Roma community members.</p>

				Delivered to 200-300 staff.
				Focus on Roma people, intended for mental health professionals.
				Not delivered at time of evaluation.
		Collaborative working	Involving community members	Community Member Quality Assurance Group involving Gypsies, Traveller and Roma. Led by Leeds Gypsy and Traveller Exchange director and allowed community oversight of projects related to community members.
				Members felt able to contribute but over time felt some disconnection.
Van Hout 2010	Ireland	Specialist role	Primary healthcare Traveller workers	Advocacy/health needs focussed role, taken on by Travellers. Role may be empowering and links community members to health care. Challenges include some reluctance to access services and stigma associated with some health matters.
Wemyss 2015	UK	Collaborative working	Involving community members	Review of Joint Strategic Needs Assessment procedures. 13/29 public health teams included a chapter on health needs for Gypsies and Travellers. 8/13 engaged community in the process. 4/13 chapters considered Roma population. Lower engagement with community in the process.

*Study reference paper – see Table S1 for references to related papers

Table S5: Quality assessment of qualitative studies

	Global assessment of study quality	No findings	Topical survey	Thematic survey	Conceptual thematic description	Interpretive explanation
All Ireland Traveller Health Study Team 2010 ¹	Strong	-	-	-	x	-
Alunni 2015 ⁷	Strong	-	-	-	x	-
European Monitoring Centre on Racism and Xenophobia 2003 ²⁹	Weak	-	X	-	-	-
Flecha 2013 ³⁰	Weak	-	X	-	-	-
Greenfields 2013 ³⁹	Weak	-	-	x	-	-
Griffiths 2013 ⁴⁰	Weak	-	X	-	-	-
Lloyd 2011 ⁶²	Weak	-	X	-	-	-
Logar 2015 ⁶³	Strong	-	-	-	x	-
Monasta 2005 ⁶⁹	Weak	-	x	-	-	-
Poole 2009 ⁸¹	Strong	-	-	x	-	-

Priebe 2012 ⁸²	Weak	-	-	x	-	-
Roman 2013 ⁸⁷	Weak	-	-	x	-	-
Sedlecky 2015 ⁹⁰	Weak	-	X	-	-	-
Sigerson 2013 ⁹²	Weak	-	-	x	-	-
Smolinska-Poffley 2012 ⁹⁶	Weak	-	X	-	-	-
Tavares 2001 ¹⁰⁰	Strong	-	-		x	-
Treise 2009 ¹⁰³	Weak	-	-	x	-	-
Van Cleemput 2010 ¹⁰⁹	Weak	-	x	-	-	-
Van Hout 2010 ¹¹⁶	Weak	-	-	x	-	-

Table S6 Quality assessment of surveys

Study ID	Adequate sampling strategy (yes/no)	Response rate (%)	validated instruments (yes/no)	Appropriate statistical analysis (yes/no)
All Ireland Traveller Health Study Team 2010 ¹ (*McGorrian, 2012 reports the relevant data)	Yes	(18.3%) 1,947/10,618	yes	yes
Dar 2013 ¹⁹	Yes	100%	Unclear	yes
Dental Department, HSE Dublin Mid-Leinster 2007 ²¹	Unclear	Not reported	no	None
Doyal 2002 ²³	Yes	80%+	No	None
European Monitoring Centre on Racism and Xenophobia 2003 ²⁹	Unclear	not reported	no	no
Greenfields 2013 ³⁹	Unclear	not reported	no	no
Jarosova 2009 ⁵¹	Unclear	not reported	no	no
Lloyd 2011 ⁶²	No	not reported	No	none
Lomax 2000 ⁶⁴	Yes	14.3% (83/580)	no	no

Sedlecky 2015 ⁹⁰	Yes	Not reported	yes	none
Stables 2014 ⁹⁷	Unclear	not reported	no	no
Van Cleemput 2010 ¹⁰⁹	Unclear	Not reported	unclear	Unclear
Wemyss 2015 ¹²¹	Unclear	not reported	no	no

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