

Supplementary File 1

Table S1.1. Published Literature Search strategy - example for one database

- 1 exp Ophthalmology/ (21885)
- 2 Optometry/ (5403)
- 3 ((eye\$ or ocular or vision) adj2 (care or health or service\$)).tw. (6849)
- 4 visual acuity.tw. (59866)
- 5 (ophthalm\$ or optomet\$).tw. (100106)
- 6 exp Eye Diseases/ (543545)
- 7 (glaucoma\$ or ocular hypertension or cataract\$).tw. (103115)
- 8 ((diabet\$ or proliferat\$) adj3 retinopath\$).tw. (23455)
- 9 (diabet\$ adj3 (eye\$ or vision or visual\$ or sight\$)).tw. (4324)
- 10 (retinopath\$ adj3 (eye\$ or vision or visual\$ or sight\$)).tw. (1996)
- 11 (dilated adj2 fundus).tw. (561)
- 12 (retinal adj2 exam\$).tw. (1497)
- 13 (myop\$ or hyperop\$ or hypermetrop\$ or anisotrop\$ or ammetrop\$ or astigmati\$ or presbyop\$).tw. (60420)
- 14 (refractive adj1 error\$).tw. (8930)
- 15 Eyeglasses/ (7396)
- 16 (spectacle or spectacles or glasses).tw. (17268)
- 17 (eyeglasses or eye glasses).tw. (793)
- 18 or/1-17 (676343)
- 19 Ethnic Groups/ (58731)
- 20 Minority Groups/ (13034)
- 21 ((ethnic\$ or racial\$ or cultur\$) adj3 (group\$ or minorit\$ or population\$ or diverse\$ or origin\$)).tw. (79505)
- 22 ((ethnic\$ or racial\$ or cultur\$) adj3 (inequalit\$ or inequit\$ or disparit\$ or equit\$ or disadvantage\$ or depriv\$)).tw. (12388)
- 23 ((population\$ or communit\$) adj3 (divers\$ or disadvantage\$ or depriv\$)).tw. (31840)
- 24 non-Indigenous.tw. (1904)
- 25 (visible adj1 minorit\$).tw. (179)
- 26 Refugees/ (9393)
- 27 "emigrants and immigrants"/ (10951)
- 28 (migrant\$ or immigrant\$ or emigrant\$ or refugee\$).tw. (46175)
- 29 asylum seeker\$.tw. (1373)
- 30 Urban Population/ (56887)
- 31 urban poor.tw. (696)
- 32 Cultural Characteristics/ (15856)
- 33 Cross-Cultural Comparison/ (24923)
- 34 Cultural Diversity/ (10999)
- 35 Cultural competency/ (4994)
- 36 Cultural deprivation/ (1142)
- 37 exp African Continental Ancestry Group/ (82727)
- 38 exp Asian Continental Ancestry Group/ (67897)
- 39 Continental Population Groups/ (20766)
- 40 (Afr\$ adj2 American\$).tw. (51367)
- 41 (Afr\$ adj2 Caribbean\$).tw. (2292)
- 42 (west adj2 (india\$ or indies)).tw. (4801)
- 43 (American\$ adj1 black).tw. (2053)
- 44 (Asian\$ or Indian\$ or Pakistan\$ or Bangladesh\$ or Bengal\$).tw. (181277)
- 45 Pacific.tw. (31669)
- 46 (Hispanic or Latino or Latin American\$ or Puerto Ric\$ or Mexican\$).tw. (81920)
- 47 or/19-46 (667128)
- 48 Program Evaluation/ (59786)
- 49 program\$.tw. (809937)

50 ((educat\$ or behaviour\$ or behavior\$ or improv\$) adj3 (intervention\$ or activat\$)).tw. (76474)
51 Delivery of Health Care/ (84907)
52 Health Services Accessibility/ (69393)
53 Patient Acceptance of Health Care/ (42735)
54 Health Promotion/ (69909)
55 (health adj2 (promotion\$ or knowledge or belief\$)).tw. (39822)
56 Health Education/ (59039)
57 (educat\$ adj2 (information or material or leaflet)).tw. (6826)
58 Health Knowledge, Attitudes, Practice/ (103696)
59 Patient Education as Topic/ (82258)
60 Persuasive Communication/ (3553)
61 "Surveys and Questionnaires"/ (429592)
62 Questionnaires/ (429592)
63 Focus Groups/ (27030)
64 Health Surveys/ (59635)
65 Health Care Surveys/ (30884)
66 Interviews as Topic/ (57899)
67 (questionnaire\$ or survey\$).tw. (956462)
68 (focus adj3 group\$).tw. (42736)
69 exp Reminder Systems/ (3237)
70 remind\$.tw. (18000)
71 Telephone/ (11288)
72 telephone.tw. (54222)
73 phone call.tw. (1179)
74 Health Behavior/ (47125)
75 Behavior Therapy/ (26940)
76 (behavioral or behaviour\$).tw. (521647)
77 (increas\$ adj3 (attend\$ or uptake)).tw. (33089)
78 (approachability or acceptability or availability or affordability or appropriateness).tw. (248806)
79 (ability adj2 (perceive or seek or reach or pay or engage)).tw. (3494)
80 exp Vision Tests/ (99239)
81 Mass Screening/ (98002)
82 (vision adj3 (test\$ or screen\$ or assess\$)).tw. (4649)
83 (eye\$ adj3 (test\$ or screen\$ or assess\$)).tw. (8507)
84 ((target\$ or tailor\$) adj3 intervention\$).tw. (48273)
85 (cultural\$ adj3 (sensitiv\$ or appropriate)).tw. (9151)
86 or/48-85 (3037015)
87 18 and 47 and 86 (4539)
88 exp developing countries/ (72422)
89 87 not 88 (4463)
90 prevalence.ti. (123792)
91 89 not 90 (3984)
92 exp case report/ (2028133)
93 (case\$ adj3 (report\$ or series)).tw. (739059)
94 92 or 93 (2268229)
95 91 not 94 (3572)
96 chi.lg. (313127)
97 95 not 96 (3550)
98 limit 97 to yr="1990 -Current" (3275)

Table S1.2. Grey Literature Search Strategy and Selection

All searches took place on 22/07/2021, and all resources were screened, selected and data was extracted between 22/07/2021 and 30/07/2021.

	SEARCH SOURCE AND STRING	NO. OF HITS	NO. IDENTIFIED FOR SCREENING	NO. IDENTIFIED FOR FULL TEXT REVIEW	NO. INCLUDED FOR EXTRACTION
Google Advanced Searches					
1	"ethnic minority" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	39	5 (checked all)	4	4
2	"ethnicity" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	77	1 (checked all)	1	0
3	"non-dominant" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	0 (checked 1st 20)	0	0
4	"Black" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	0 (checked 1st 20)	0	0
5	"African American" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	6 (checked 1st 50)	6	0
6	"Latinx" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	59	3 (checked all)	3	1
7	"Latino" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	13 (checked 1st 50)	6	2
8	"Hispanic" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	6 (checked 1st 50)	6	3
9	"Pacific" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	72	0 (checked 1st 20)	0	0
10	"Asian" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	0 (checked 1st 20)	0	0
11	"Indian" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	0 (checked 1st 20)	0	0
12	"Improving access" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	8 (checked 1st 50)	6	2
13	"Improve access" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	6 (checked 1st 50)	2	0
14	"Equity" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	>100	2 (checked 1st 50)	1	0
15	"Intervention improve access" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR	0	(adds only)	0	0

glaucoma					
Grey Literature databases					
Grey Lit					
16	"ethnicity" AND (eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma)	0	0	0	0
17	eyecare	10	0	0	0
Guidelines International Network 'GIN'					
18	"ethnicity" AROUND(3) eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma	0	0	0	0
19	"ethnicity" AND (eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma)	0	0	0	0
20	eyecare	0	0	0	0
21	"eye care"	2	0	0	0
Open Grey					
22	"ethnicity" AROUND(3) (eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma)	0	0	0	0
23	"ethnicity" AND (eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma)	3	0	0	0
24	access to eyecare ethnic minorities	0	0	0	0
25	eyecare	0	0	0	0
26	"eye care"	4	1	0	0
Trip Database					
27	"ethnicity" AROUND(3) (eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma)	0	0	0	0
28	"ethnicity" AND (eyecare OR eye OR "visual impairment" OR cataract OR "refractive error" OR "diabetic retinopathy" OR glaucoma)	0	0	0	0
29	access to eyecare ethnic minorities	0	0	0	0
30	eyecare AND ethnicity	4	0	0	0
Total Extraction					
12 (all from google searches)					

Table S1.3. Websites used for data extraction after grey lit search

Resources	Initiative(s)	Year Target populati on Target conditio n Country	Approach
http://news.bbc.co.uk/2/hi/uk_news/scotland/glasgow_and_west/7544704.stm https://www.opticianonline.net/news/minorities-targeted	Glasgow (equity project)	2008 <i>Mixed ethnicities</i> General eyecare UK	Few details
https://sightcymru.org.uk/launch-of-a-campaign-drive-to-engage-black-and-ethnic-minority-communities-with-eye-care-at-the-pierhead-cardiff-30th-november-2015/ https://business.senedd.wales/mgCalendarEvent.aspx?id=1537&RPID=0	Cardiff (equity project)	2015 <i>Mixed ethnicities</i> General eyecare UK	Education and screening programme
https://ec.europa.eu/eip/ageing/news/promoting-well-being-and-improving-access-eye-care_en.html	"P5SE" by Tays Eye Centre	2016 <i>Mixed ethnicities</i> General eyecare <i>Finland</i>	'P5SE' Prioritise 'worst outcome' eye diseases, Stratify, based on outcomes, Standardise care pathways, Streamline decision processes, Shared care using multidisciplinary teams, ensure services are Sustainable, and embed continuous Evaluation
https://www.nei.nih.gov/learn-about-eye-health/outreach-campaigns-and-resources/eye-health-among-hispanicslatinos	National Eye Institute (NEI), part of National Institute of Health (NIH)	2019 <i>Latinx</i> General eyecare USA	Targeted awareness and educational materials
https://cao.memberclicks.net/assets/docs/prioritizing_eye_health_in_hispanic_communities.pdf	Transitions Cultural Connections	NA <i>Latinx</i> General	In depth recommendations for

	, National Association of Hispanic Nurses	eyecare USA	patients and providers, covering many aspects of Levesque access framework
http://bdweb8960p.bluedomino.com/pdf/April2018.pdf	Health Plan San Joaquin eyecare initiatives	2018 <i>Latinx</i> General eyecare USA	Advertising free eyecare services in local, Spanish newspaper
https://mdnewsline.com/latinx-patients-more-affected-by-diabetic-macular-edema/	Affordable Care Act Ventanillas de Salud (VDS) Juntos por la Salud (JPLS)	2020 <i>Latinx</i> General eyecare USA	Variety of resources for diabetes
https://www.glaucoma.org/gleams/hispanic-americans-at-increased-risk-for-glaucoma.php	National Eye institute (NEI) EyeCare America (<i>American Academy of Ophthalmology</i>) Glaucoma Research Foundation	2017 <i>Mixed ethnicities</i> General USA	Variety of resources for glaucoma
https://www.healio.com/news/ophthalmology/20120331/high-glaucoma-prevalence-in-blacks-leaves-questions-about-treatment	Travatan Project Focus (<i>Alcon</i>) Partnership for Sight Initiative (<i>Allergan</i>) Glaucoma Eyecare Program (<i>American Academy of Ophthalmology</i>)	2003 <i>Black</i> Glaucoma USA	Variety of resources for glaucoma. Most including educational and screening components
https://www.iapb.org/blog/improving-access-to-glaucoma-care-a-population-health-priority/	Screening and Intervention for Glaucoma and Eye Health through Telemedicine	2021 <i>Mixed ethnicities</i> Glaucoma USA	Tele-screening, and follow-up support

	e (SIGHT) Program		
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