THE LANCET Global Health

Supplementary appendix

This appendix formed part of the original submission and has been peer reviewed. We post it as supplied by the authors.

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APPENDIX 1: METHODOLOGY

Text 1. Definitions and analytic framework

We estimate the prevalence of vision loss for the period 1990-2020 by age, sex, and year in 187 countries (Table 1), for the following extended vision loss categories:

- •Blind: < 3/60 and/or a visual field of no greater than 10° in radius around central fixation
- •Severe vision loss: < 6/60 and $\ge 3/60$ •Moderate vision loss: < 6/18 and $\ge 6/60$
- •Mild vision loss: < 6/12 and $\ge 6/18$
- •Vision impairment from uncorrected presbyopia: VA of <6/12 distance equivalent in those with presenting distance vision ≥6/12

Our study was carried out in seven steps:

- •Data identification and access
- •Separation of raw data into datasets called "vision loss envelopes" for all-cause mild, moderate, and severe vision loss, and blindness.
- •Studies only specifying "both" sex information split into male- and female-specific data points using MR-BRT*
- •Adjustment of non-reference data to the reference definition of presenting vision data that fit within the WHO severity categories
- Application of an age pattern to data with age groups greater than or equal to 25 years
- Dismod-MR 2.1 modeling
- Modeling and Post-Processing
- Extrapolation, Age-standardisation & forecasting for 2020 and 2050 estimates

*MR-BRT (Meta Regression; Bayesian; Regularized; Trimmed)- a mixed-effects meta-regression tool developed at the Institute for Health Metrics and Evaluation This tool was developed in part to allow for the ability to propagate between-study heterogeneity as part of the uncertainty adjustment, and to allow trimming of outlier input data. A detailed description of MR-BRT has been published elsewhere. 12

Text 2. Data identification and access

We used data from epidemiologic studies and surveys which we collected to update a previously published systematic review. Following Bourne and colleagues,³ we identified studies or surveys fulfilling the following inclusion criteria:

- The studies reported prevalence of vision impairment from cross-sectional surveys of representative populations of a country or area of a country.
- The definitions of vision impairment were clearly stated, using thresholds of visual acuity in the better eye that matched the extended definitions of vision impairment.
- Best corrected and/or presenting visual acuity was given.
- The procedures used for measurement of visual acuity were clearly stated.

The authors carried out a systematic review of the literature for distance vision impairment data. They also obtained unpublished data sources. Distance visual acuity data was used from 512 sources; 485 reported or could be used to estimate the prevalence of blindness, 380 reported or could be used to estimate the prevalence of moderate plus severe vision impairment (MSVI), and 59 reported or could be used to estimate the prevalence of mild vision impairment. Data sources used in this analysis are listed in Table 2. 25 studies were used to estimate vision impairment from uncorrected presbyopia, as shown in Table 3. The current systematic review of distance visual acuity data sources used the same search terms of a systematic review published previously, but extended the review to include more recently published studies up to 1 October 2018. The methodology for this systematic review extension is described in Figure 1 as a PRISMA (Preferred Reporting Items for Systematic Reviews and Meta-Analyses) flowchart with a PRISMA-P checklist in Table 4.

The Search Strategy for the Systematic Review is described in the following sections:

- 2.1 Developing the Search Strategy (distance visual acuity data sources)
- 2.2 Final Search Strategies (distance visual acuity data sources)
- 2.3 Results & Discussion (distance visual acuity data sources)
- 2.4 Systematic review of studies of presbyopia prevalence

Text 2.1. Developing the Search Strategy (distance visual acuity data sources)

The search strategy was required to capture epidemiological studies of vision loss and blindness published in the period 1980 to 2018 inclusive. The search excluded animal studies.

This report describes update searches undertaken for the Global Vision Database project in October 2018. These searches update the original search undertaken in 2008 and the subsequent searches run in 2012 and 2013 and 2014.

Several approaches to capturing the search concepts were developed and tested out in Ovid MEDLINE. The objective was to achieve a focused strategy that would identify epidemiological studies of blindness. The strategy needed to balance adequate sensitivity (not missing too many relevant records) against reasonable precision (not producing high proportions of irrelevant records) bearing in mind the resource available to process the records produced by the searches. To achieve this balance required the use, in a master strategy for MEDLINE, of the various indexing options that were available. The strategy also had to take account of variability in the way authors describe their research and indexers index research with Medical Subject Headings (MeSH). Ideally, we would expect all records about the epidemiology of blindness to be indexed with the MeSH and appropriate subheading, for example BLINDNESS/ep. In practice, however, there are many records about that topic that are not indexed in that way. The strategy takes account of such variability in indexing approaches. The strategy also had to cope with the fact that the search would be undertaken in both indexed and unindexed records (e.g. MEDLINE In Process records) so had to search for text words (in the title and abstract) as well as MeSH.

As well as the concept of the epidemiology of blindness, the strategy had to retrieve studies about the epidemiology of selected specific eye diseases which might result in blindness or visual impairment.

After several iterations, checking the impact of changes at each stage, a strategy with three elements was agreed as follows for Ovid MEDLINE (see also Box 1).

Element 1

A search on the concepts of blindness and visual impairment linked to epidemiological terms through three approaches:

- Precoordination of a MeSH blindness/visual impairment term with its epidemiology subheading, e.g. exp blindness/ep
- 2. Searching for the occurrence of a MeSH blindness/visual impairment term along with the occurrence of an epidemiological MeSH term in the same record, e.g.
 - exp blindness/ and (incidence/ or prevalence/ or mortality/ or morbidity/)
- 3. Searching for the occurrence of a MeSH blindness/visual impairment term and an epidemiological concept ex- pressed as a text word in the title or abstract of a record, e.g.
 - exp blindness/ and (epidemiology or incidence or prevalence or mortality).ti,ab.

Element 2

A search for specific eye diseases linked to epidemiological terms and also to terms indicating blindness using the following approaches:

- 1. Precoordination of a MeSH eye disease heading with the epidemiology subheading and then looking for the occurrence of that combination in the same record as one where blindness/visual impairment is a term in the title or abstract, e.g.
 - conjunctival diseases/ep
 - exp blindness/ or (blindness or (visual adj3 impair\$) or (vision adj3 impair\$)).ti,ab. 1 and 2
- 2. Searching for the occurrence of a MeSH eye disease heading in the same record as an epidemiological MeSH heading and as blindness/visual impairment as a term in the title or abstract, e.g.
 - conjunctival diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/) exp blindness/ or (blindness or (visual adj3 impair\$)) or (vision adj3 impair\$)).ti,ab.
 - 1 and 2
- 3. Searching for the occurrence of eye disease text words in close proximity to epidemiology text words in the title and abstract of records, in the same records as blindness MeSH or blindness/visual impairment text words, e.g.
 - (retinitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab.
 - exp blindness/ or (blindness or (visual adj3 impair\$) or (vision adj3 impair\$)).ti,ab. 1 and 2

Element 3

Searching for records that specifically mention population-based eye surveys using a range of synonyms for that concept in the title and abstract, e.g.

(population adj3 eye adj3 survey\$).ti,ab.

To improve the precision of the search a range of limits were explored and agreed

- Removing studies about animals by using a safe exclusion approach: {Result set} NOT (animals/ NOT humans/)
- Excluding letters coded in the MEDLINE Publication Type field
- Excluding comments coded in the MEDLINE Publication Type field
- Excluding editorials coded in the MEDLINE Publication Type field
- Excluding clinical trials coded in the MEDLINE Publication Type field
- Excluding reviews coded in the MEDLINE Publication Type field or as a text word in the title

The original 2008 search was limited to records with a publication date of 1980 to current. The update searches were date limited using various update codes relevant to the specific databases. These date limits were intended to restrict the results to records added to the databases, indexed or otherwise revised since the search was last run. The results of each update were deduplicated against each other and the results of the previous searches. The following databases were searched in 2008 and for each of the subsequent updates:

- Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations and Ovid MEDLINE(R)
- Ovid EMBASE
- WHOLIS library catalogue (http://dosei.who.int/uhtbin/webcat)

For the 2018 update, the search structure and terms used were identical to those used previously. No further revisions of the strategy were made. The original strategies were translated appropriately for the sources newly searched for this update e.g. SciELO, Open Grey, and the new interface of WHOLIS. Full search strategies for all resources are provided below in Text 2.2.

The original 2008 search downloaded records from MEDLINE and Embase by country. This was not repeated in the 2012, 2013 or 2014 update searches. We followed the approach used in previous update searches and downloaded the results as one batch, without an additional search concept to allow records to be exported geographically.

The previous update searches (2012, 2013, 2014) were date limited using various update codes relevant to the specific databases. These date limits were intended to restrict the results to records added to the databases, indexed or otherwise revised since the search was last run. Whilst this approach of date limiting updates is pragmatic, and reduces the resource burden of loading and deduplicating the large number of records a search unrestricted by date would require, there is currently no agreed best method to achieve this. Due to uncertainty about the way date fields are implemented in database interfaces, many older records are inevitably retrieved and must be removed at deduplication stage. As a result the 2018 update searches were not limited by date. We re-ran all the searches from 1980 to 1 October 2018 and removed records already identified by previous searches.

Text 2.2. Final Search Strategies (distance visual acuity data sources)

The databases searched mirrored those used in the original search with the addition of SciELO and sources to identify grey literature. Table 5 presents the sources searched. The choice of grey literature sources was discussed and agreed with Rupert Bourne and colleagues from The Vision Loss Expert Group before the searches were run.

The following web pages of highly relevant organisations were also searched/browsed for relevant evidence:

- World Health Organization;
- International Agency for the Prevention of Blindness;
- International Council of Ophthalmology;
- International Eye Foundation;
- Commonwealth Eye Health Consortium;
- International Centre for Eye Health (ICEH) at LSHTM;
- Brien Holden Vision Institute;
- Sightsavers.

The final search strategies are shown below.

Key to Ovid MEDLINE search syntax

Exp	Explodes a MeSH to capture more specific MeSH					
.ti,ab.	Searches for a word in the title and abstract of a record					
/	Indicates that the search term is a Medical Subject Heading (MeSH)					
/ep	Searches for a subheading linked to a MeSH, in this case epidemiology					
And	Achieves a Boolean AND combination					
Or	Achieves a Boolean OR combination					
Adj3	Adjacency operator, searches for words up to 3 words apart					
\$	Truncation operator, searches for words beginning with the stem, e.g. impair\$ retrieves					
	impair, impairment, impairments, impaired, impairing and impairs					

2.2.1 Medline search

Source: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 01, 2018>

Interface / URL: Ovid

Database coverage dates: 1946 to October 01, 2018

Search date: 02/10/18 Retrieved records: 14219

Search strategy:

Database: Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily <1946 to October 01, 2018>

Search Strategy:

- 1 exp blindness/ep or exp blindness/mo (2367)
- 2 exp blindness/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (1464)
- 3 exp blindness/ and (age distribution/ or sex distribution/) (389)
- 4 exp blindness/ and exp eye diseases/ep (2775)
- 5 exp blindness/ and (epidemiology or incidence or prevalence or mortality).ti,ab. (2056)

- 6 (blindness and (epidemiology or incidence or prevalence or mortality)).ti,ab. (4060)
- 7 vision/ep or vision/mo (0)
- 8 vision/ and (age distribution/ or sex distribution/) (13)
- 9 (vision and (epidemiology or incidence or prevalence or mortality)).ti,ab. (6951)
- 10 vision/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (101)
- 11 exp visual acuity/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (3113)
- 12 exp visual acuity/ and (age distribution/ or sex distribution/) (753)
- 13 (visual acuity and (epidemiology or incidence or prevalence or mortality)).ti,ab. (5640)
- vision, binocular/ and (incidence/ or prevalence/ or morbidity/ or mortality/) (89)
- vision, binocular/ and (age distribution/ or sex distribution/) (25)
- 16 ((vision adj3 binocular) and (epidemiology or incidence or prevalence or mortality)),ti,ab. (151)
- 17 Vision, Low/ep or vision, low/mo (613)
- vision, low/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (485)
- 19 vision, low/ and (age distribution/ or sex distribution/) (195)
- 20 (low vision and (epidemiology or incidence or prevalence or mortality)).ti,ab. (463)
- 21 Night Blindness/ep or night blindness/mo (102)
- 22 night blindness/ and (incidence/ or prevalence/ or morbidity/ or mortality/) (64)
- 23 night blindness/ and (age distribution/ or sex distribution/) (7)
- 24 Presbyopia/ep or presbyopia/mo (82)
- 25 presbyopia/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (48)
- 26 presbyopia/ and (age distribution/ or sex distribution/) (24)
- 27 (presbyopi\$ and (epidemiology or incidence or prevalence or morbidity)).ti,ab. (128)
- 28 Visually Impaired Persons/ and (incidence/ or prevalence/ or morbidity/ or mortality/) (480)
- 29 visually impaired persons/ and (age distribution/) or sex distribution/) (160)
- 30 (visual\$ adj3 impair\$ adj3 (incidence or prevalence or epidemiolog\$ or morbidity)).ti,ab. (542)
- 31 (vision adj3 impair\$ adj3 (incidence or prevalence or epidemiolog\$ or morbidity)).ti,ab. (95)
- 32 ((amaurosis or deaf-blind) adj3 (incidence or prevalence or epidemiolog\$ or morbidity)).ti,ab. (10)
- 33 conjunctival diseases/ep or conjunctival diseases/mo (137)
- 34 conjunctival diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (118)
- 35 conjunctivitis/ep, mo (509)
- 36 conjunctivitis/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (175)
- 37 ((conjunctivitis or conjunctival) adj3 (incidence or prevalence or epidemiolog\$ or mortality)).ti,ab. (272)
- 38 ophthalmia neonatorum/ep, mo (85)
- 39 ophthalmia neonatorum/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (21)
- 40 (ophthalmia neonatorum adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (11)
- 41 trachoma/ep, mo (1085)
- 42 trachoma/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (475)
- 43 (trachoma adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (418)
- 44 pterygium/ep, mo (173)
- 45 pterygium/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (124)
- 46 (pterygium adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (99)
- 47 xerophthalmia/ep, mo (236)
- 48 xerophthalmia/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (112)
- 49 (xerophthalmia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (77)

- 50 corneal diseases/ep, mo or (corneal diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (540)
- 51 (corneal adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (21)
- 52 corneal opacity/ep, mo or (corneal opacity/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (126)
- 53 (cornea\$1 adj3 (opaque\$ or opac\$) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (33)
- keratitis/ep, mo or (keratitis/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (461)
- 55 (keratitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (197)
- 56 corneal ulcer/ep, mo or (corneal ulcer/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (342)
- 57 (cornea\$ adj3 ulcer\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (49)
- keratoconus/ep, mo or (keratoconus/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (208)
- 59 (keratoconus adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (65)
- 60 eye diseases, hereditary/ep, mo or (eye diseases, hereditary/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (67)
- 61 (hereditary adj3 eye adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (1)
- retinitis pigmentosa/ep, mo or (retinitis pigmentosa/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (242)
- 63 (retinitis pigmentosa adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (37)
- exp eye infections/ep, mo or (exp eye infections/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (4443)
- 65 (infection\$ adj3 eye\$1 adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (13)
- lens diseases/ep, mo or (lens diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (72)
- 67 (lens adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (3)
- 68 exp aphakia/ep, mo or (exp aphakia/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (101)
- 69 (aphakia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (14)
- 70 cataract/ep, mo or (cataract/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (2782)
- 71 (cataract\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (1151)
- ocular hypertension/ep, mo or (ocular hypertension/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (407)
- 73 ((ocular or intraocular) adj hypertens\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (66)
- glaucoma/ep, mo or (glaucoma/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (1797)
- glaucoma, angle-closure/ep, mo or (glaucoma, angle-closure/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (324)
- 76 glaucoma, open-angle/ep, mo or (glaucoma, open-angle/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (1024)
- 77 (glaucoma adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (809)
- optic nerve diseases/ep, mo or (optic nerve diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (366)
- 79 (optic nerve adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (60)
- 80 exp optic atrophy/ep, mo or (exp optic atrophy/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (242)
- 81 (optic atrophy adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (22)

- 82 refractive errors/ep, mo or (refractive errors/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (1118)
- 83 (refractive error\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (326)
- 84 astigmatism/ep, mo or (astigmatism/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (410)
- 85 (astigmatism adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (200)
- hyperopia/ep, mo or (hyperopia/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (256)
- 87 (hyperopia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (107)
- 88 exp myopia/ep, mo or (exp myopia/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (1303)
- 89 ((myopia or myopic) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (744)
- 90 retinal diseases/ep, mo or (retinal diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (847)
- 91 (retina\$1 adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (33)
- diabetic retinopathy/ep, mo or (diabetic retinopathy/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (3079)
- 93 (diabetic retinopath\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (634)
- 94 retinal degeneration/ep, mo or (retinal degeneration/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (149)
- 95 (retina\$1 adj3 degenerat\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (26)
- exp macular degeneration/ep, mo or (exp macular degeneration/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (2013)
- 97 (macular adj3 degenerat\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (70)
- 98 retinal detachment/ep, mo or (retinal detachment/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (756)
- 99 (retina\$1 adj3 detach\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (317)
- 100 retinal vein occlusion/ep, mo or (retinal vein occlusion/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (285)
- 101 (retina\$1 adj3 vein adj3 occlu\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (48)
- retinitis/ep, mo or (retinitis/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (86)
- 103 (retinitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (128)
- 104 chorioretinitis/ep, mo or (chorioretinitis/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (94)
- 105 (chorioretinitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (12)
- cytomegalovirus retinitis/ep, mo or (cytomegalovirus retinitis/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (194)
- retinopathy of prematurity/ep, mo or (retinopathy of prematurity/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (987)
- 108 (retinopathy adj3 prematurity adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (248)
- exp choroid diseases/ep, mo or (exp choroid diseases/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (828)
- 110 (choroid adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (0)
- exp uveitis/ep, mo or (exp uveitis/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (1886)
- 112 (uveitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (248)
- vision disorders/ep, mo or (vision disorders/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (2636)

- amblyopia/ep, mo or (amblyopia/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/)) (417)
- 115 (amblyopia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (220)
- 116 (population adj3 eye adj3 survey\$).ti,ab. (29)
- 117 (population adj3 vision adj3 survey\$).ti,ab. (1)
- 118 (population adj3 blindness adj3 survey\$).ti,ab. (13)
- 119 (population adj3 visual adj3 survey\$).ti,ab. (2)
- 120 animals/ not humans/ (4466715)
- 121 (letter or comment or editorial).pt. (1660989)
- 122 (clinical trial or controlled clinical trial).pt. (534257)
- randomized controlled trial.pt. (468991)
- 124 review.pt. (2433961)
- exp blindness/ or (blindness or (visual adj3 impair\$) or (vision adj3 impair\$)).ti,ab. (53846)
- 126 or/1-32 (17386)
- 127 or/33-115 (27402)
- 128 or/116-119 (45)
- 129 126 or (127 and 125) or 128 (18412)
- 130 129 not (120 or 121 or 122 or 123 or 124) (14219)

2.2.2 Embase search

Source: Embase Interface / URL: Ovid

Database coverage dates: 1974 to 2018 October 2

Search date: 03/10/18 Retrieved records: 23973

Search strategy:

Database: Embase <1974 to 2018 October 2>

Search Strategy:

- 1 exp blindness/ep (1747)
- 2 exp blindness/ and (prevalence/ or incidence/ or morbidity/ or mortality/) (4126)
- 3 exp blindness/ and (age distribution/ or sex ratio/) (490)
- 4 exp blindness/ and exp eye disease/ep (2586)
- 5 exp blindness/ and (epidemiology or incidence or prevalence or mortality).ti,ab. (4791)
- 6 (blindness and (incidence or prevalence or epidemiology or mortality)).ti,ab. (5230)
- 7 vision/ and (age distribution/ or sex ratio/) (372)
- 8 (vision and (epidemiology or incidence or prevalence or mortality)).ti,ab. (10276)
- 9 vision/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (1381)
- 10 exp visual acuity/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (5303)
- 11 exp visual acuity/ and (age distribution/ or sex ratio/) (1277)
- 12 (visual acuity and (epidemiology or incidence or prevalence or mortality)).ti,ab. (7105)
- 13 binocular vision/ and (incidence/ or prevalence/ or morbidity/ or mortality/) (155)
- binocular vision/ and (age distribution/ or sex ratio/) (38)
- 15 ((vision adj3 binocular) and (epidemiology or incidence or prevalence or mortality)).ti,ab. (163)
- 16 visual disorder/ep (862)
- 17 visual disorder/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (2314)
- visual disorder/ and (age distribution/ or sex ratio/) (345)
- 19 (low vision and (epidemiology or incidence or prevalence or mortality)).ti,ab. (573)

- 20 night blindness/ep (71)
- 21 night blindness/ and (incidence/ or prevalence/ or morbidity/ or mortality/) (195)
- 22 night blindness/ and (age distribution/ or sex ratio/) (17)
- 23 presbyopia/ep (56)
- 24 presbyopia/ and (incidence/ or prevalence/ or mortality/ or morbidity/) (108)
- 25 presbyopia/ and (age distribution/ or sex ratio/) (41)
- 26 (presbyopi\$ and (epidemiology or incidence or prevalence or morbidity)).ti,ab. (142)
- 27 (visual\$ adj3 impair\$).ti,ab. and (incidence/ or prevalence/ or morbidity/ or mortality/) (2607)
- 28 (visual\$ adj3 impair\$).ti,ab. and (age distribution/ or sex ratio/) (435)
- 29 (visual\$ adj3 impair\$ adj3 (incidence or prevalence or epidemiolog\$ or morbidity)).ti,ab. (642)
- 30 (vision adj3 impair\$ adj3 (incidence or prevalence or epidemiolog\$ or morbidity)).ti,ab. (120)
- 31 ((amaurosis or deaf-blind) adj3 (incidence or prevalence or epidemiolog\$ or morbidity)).ti,ab. (11)
- 32 conjunctiva disease/ep (81)
- 33 conjunctiva disease/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (281)
- 34 conjunctivitis/ep (473)
- 35 conjunctivitis/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (1476)
- 36 ((conjunctivitis or conjunctival) adj3 (incidence or prevalence or epidemiolog\$ or mortality)).ti,ab. (306)
- 37 newborn ophthalmia/ep (55)
- 38 newborn ophthalmia/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (72)
- 39 (ophthalmia adj3 (neonat\$ or newborn) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (14)
- 40 trachoma/ep (775)
- 41 trachoma/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (865)
- 42 (trachoma adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (438)
- 43 pterygium/ep (155)
- 44 pterygium/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (279)
- 45 (pterygium adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (116)
- 46 xerophthalmia/ep (164)
- 47 xerophthalmia/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (276)
- 48 (xerophthalmia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (81)
- 49 cornea disease/ep (179)
- 50 cornea disease/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (532)
- 51 (cornea\$ adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (21)
- 52 cornea opacity/ep (59)
- 53 cornea opacity/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (370)
- 54 (cornea\$ adj3 (opaque\$ or opac\$) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (34)
- 55 keratitis/ep (373)
- 56 keratitis/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (739)
- 57 (keratitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (241)
- 58 cornea ulcer/ep (137)
- 59 cornea ulcer/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (313)
- 60 (cornea\$ adj3 ulcer\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (66)
- 61 keratoconus/ep (113)

- keratoconus/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (346)
- 63 (keratoconus adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (76)
- 64 (hereditary adj3 eye).ti,ab. and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (9)
- 65 (hereditary adj3 eye adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (1)
- 66 retinitis pigmentosa/ep (135)
- 67 retinitis pigmentosa/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (329)
- 68 (retinitis pigmentosa adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (42)
- 69 exp eye infection/ep (1601)
- 70 exp eye infection/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (2347)
- 71 (infection\$ adj3 eye\$1 adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (19)
- 72 lens disease/ep (32)
- lens disease/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (103)
- 74 (lens adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (3)
- 75 exp aphakia/ep (43)
- exp aphakia/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (243)
- 77 (aphakia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (15)
- 78 exp cataract/ep (1804)
- 79 exp cataract/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (4874)
- 80 (cataract\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (1361)
- 81 exp glaucoma/ep (1873)
- 82 exp glaucoma/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (4768)
- 83 (glaucoma adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (1005)
- 84 ((ocular hypertens\$) or intraocular hypertens\$) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (87)
- 85 optic nerve disease/ep (216)
- optic nerve disease/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (868)
- 87 (optic nerve adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (79)
- 88 exp optic nerve atrophy/ep (162)
- 89 exp optic nerve atrophy/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (599)
- 90 (optic adj3 atroph\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (33)
- 91 refraction error/ep (667)
- 92 refraction error/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (1674)
- 93 (refract\$ adj3 error\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (390)
- 94 astigmatism/ep (289)
- astigmatism/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (805)
- 96 (astigmatism adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (229)
- 97 hypermetropia/ep (232)

- 98 hypermetropia/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (723)
- 99 ((hyperopia or hypermetropia) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (133)
- 100 exp myopia/ep (799)
- exp myopia/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (1822)
- 102 ((myopia or myopic) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (864)
- 103 retina disease/ep (190)
- retina disease/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (594)
- 105 (retina\$1 adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (40)
- 106 diabetic retinopathy/ep (1679)
- diabetic retinopathy/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (4842)
- 108 (diabetic retinopath\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (860)
- retina degeneration/ep (67)
- retina degeneration/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (193)
- 111 (retina\$1 adj3 degenerat\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (30)
- exp retina maculopathy/ep (430)
- exp retina maculopathy/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (2492)
- 114 (macular adj3 degenerat\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (95)
- retina detachment/ep (264)
- retina detachment/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (1347)
- 117 (retina\$1 adj3 detach\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (366)
- 118 exp retina vein occlusion/ep (150)
- exp retina vein occlusion/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (560)
- 120 (retina\$1 adj3 vein adj3 occlu\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (58)
- 121 exp retinitis/ep (661)
- exp retinitis/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (2010)
- 123 (retinitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (131)
- 124 (chorioretinitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (13)
- retrolental fibroplasia/ep (495)
- retrolental fibroplasia/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (1348)
- 127 (((retinopathy adj3 prematurity) or retrolental fibroplasia) adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (322)
- 128 exp choroid disease/ep (386)
- exp choroid disease/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (1580)
- 130 (choroid adj3 disease\$ adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (0)
- 131 exp uveitis/ep (1234)
- exp uveitis/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (3850)
- 133 (uveitis adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (375)
- visual disorder/ep (862)

- 135 visual disorder/ and (incidence/ or prevalence/ or age distribution/ or sex ratio/ or morbidity/ or mortality/) (2523)
- amblyopia/ep (285)
- amblyopia/ and (incidence/ or prevalence/ or age distribution/ or sex distribution/ or morbidity/ or mortality/) (693)
- 138 (amblyopia adj3 (incidence or prevalence or epidemiology or mortality)).ti,ab. (255)
- 139 (population adj3 eye adj3 survey\$).ti,ab. (34)
- 140 (population adj3 vision adj3 survey\$).ti,ab. (1)
- 141 (population adj3 blindness adj3 survey\$).ti,ab. (17)
- 142 (population adj3 visual adj3 survey\$).ti,ab. (3)
- 143 or/1-31 (28865)
- 144 or/32-138 (39144)
- exp blindness/ or (blindness or (visual adj3 impair\$) or (vision adj3 impair\$)).ti,ab. (70451)
- 146 144 and 145 (5523)
- 147 143 or 146 or (or/139-142) (29282)
- 148 limit 147 to (amphibia or ape or bird or cat or cattle or chicken or dog or "ducks and geese" or fish or "frogs and toads" or goat or guinea pig or "hamsters and gerbils" or horse or monkey or mouse or "pigeons and doves" or "rabbits and hares" or rat or reptile or sheep or swine) (563)
- 149 limit 147 to animal studies (459)
- 150 limit 147 to animals (519)
- 151 limit 147 to human (27190)
- 152 (148 or 149 or 150) not 151 (595)
- 153 147 not 152 (28687)
- 154 (letter or editorial or review).pt. (3965506)
- 155 153 not 154 (23973)

2.2.3 WHOLIS search

Source: WHOLIS

Interface / URL: http://kohahq.searo.who.int/

Database coverage dates: Search date: 04/10/18 Retrieved records: 79 Search strategy:

The search interface and functionality of WHOLIS has changed since the previous searches – hence the different structure in the update.

Advanced search

http://kohahq.searo.who.int/cgi-bin/koha/opac-search.pl

All terms search via Keyword field search

All searches date limited 1980 to current

Email to WHO Library confirmed that truncation is supported with the * character

Nested Boolean does not seem to be supported in this interface

All searches conducted individually and the results added to the "Cart". Here duplicate records were automatically removed – all results were downloaded as one batch of unique records.

Blindness AND epidemiolog* = 15 results

Blindness AND incidence = 1 result

Blindness AND prevalence = 3 results

Blindness AND morbidity = 1 result

Blindness AND mortality = 0 result

Visual AND epidemiolog = 6 results

Visual AND incidence = 3 results

Visual AND prevalence = 2 results

Visual AND morbidity = 2 results

Visual AND mortality = 4 results

Vision AND epidemiolog = 5 results

Vision AND incidence = 1 result

Vision AND prevalence = 1 result

Vision AND morbidity = 0 results

Vision AND mortality = 1 results

Acuity = 0 results

Amaurosis = 0 results

Conjunctiv* = 5 results

Ophthalmia = 1 result

Trachoma AND epidemiolog = 3 results

Trachoma AND incidence = 2 results

Trachoma AND prevalence = 3 results

Trachoma AND morbidity = 1 result

Trachoma AND mortality = 0 results

Pterygium = 1 result

Xerophthalmia AND epidemiolog = 2 results

Xerophthalmia AND incidence = 0 results

Xerophthalmia AND prevalence = 1 result

Xerophthalmia AND morbidity = 1 result

Xerophthalmia AND mortality = 1 result

Cornea* = 7 results

Keratitis = 2 results

Keratoconus = 0 results

Eye AND epidemiolog = 20 results

Eye AND incidence = 2 results

Eye AND prevalence = 7 results

Eye AND morbidity = 1 result

Eye AND mortality = 2 results

Lens AND epidemiolog = 1 result

Lens AND incidence = 2 results

Lens AND prevalence = 3 results

Lens AND morbidity = 0 results

Lens AND mortality = 0 results

Aphakia = 0 results

Cataract* = 10 results

Ocular AND epidemiolog = 5 results

Ocular AND incidence = 1 result

Ocular AND prevalence = 1 result

Ocular AND morbidity = 0 results

Ocular AND mortality = 0 results

Intraocular = 1 result

Glaucoma = 2 results

Optic* AND epidemiolog = 1 result

Optic* AND incidence = 0 results

Optic* AND prevalence = 0 results

Optic* AND morbidity = 0 results

Optic* AND mortality = 1 results

Refractive = 0 results

Astigmatism = 0 results

Hyperopia = 0 results

Hypermetropia = 0 results

Myopia = 3 results

Retinitis = 0 results

Retina* = 1 result

Retinopathy = 5 results

Macular = 3 results

Chorioretinitis = 0 results

Choroid = 0 results

Uveitis = 0 results

Amblyopia = 0 results

2.2.4 SciELO search

	SciELO Citation Index (SCIELO) e / URL: Web of Science
Search o	e coverage dates: 1997-2018. Last updated 27/09/18 date: 04/10/2018 ed records: 709
Search s	
# 53	#52 OR #51 OR #50 709 Indexes=SCIELO Timespan=All years
# 52	#49 OR #48 OR #47 OR #46 0 Indexes=SCIELO Timespan=All years
	#45 OR #44 OR #43 OR #42 OR #41 OR #40 OR #39 OR #38 OR #37 OR #36 OR #35 OR #34 OR #32 OR #31 OR #30 OR #29 OR #28 OR #27 OR #26 OR #25 OR #24 OR #23 OR #22 OR #21 OR #20 OR #18 OR #17 OR #16 OR #15 OR #14 OR #13 OR #12 OR #11 OR #10 177 Indexes=SCIELO Timespan=All years
# 50	#9 OR #8 OR #7 OR #6 OR #5 OR #4 OR #3 OR #2 OR #1 612 Indexes=SCIELO Timespan=All years
# 49	TS=("population" NEAR/3 "visual" NEAR/3 survey*) 0 Indexes=SCIELO Timespan=All years
# 48	TS=("population" NEAR/3 "blindness" NEAR/3 survey*) 0 Indexes=SCIELO Timespan=All years
# 47	TS=("population" NEAR/3 "vision" NEAR/3 survey*) 0 Indexes=SCIELO Timespan=All years
# 46	TS=("population" NEAR/3 "eye" NEAR/3 survey*) 0 Indexes=SCIELO Timespan=All years
# 45	TS=("amblyopia" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 12 Indexes=SCIELO Timespan=All years
# 44	TS=("uveitis" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 12 Indexes=SCIELO Timespan=All years
# 43 "mortali	TS=("choroid" NEAR/3 disease* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR ty")) 0 Indexes=SCIELO Timespan=All years
# 42 OR "mo	TS=("retinopathy" NEAR/3 "prematurity" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" ortality")) 19 Indexes=SCIELO Timespan=All years

- #41 TS=("chorioretinitis" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality"))
 0
 Indexes=SCIELO Timespan=All years
- # 40 TS=("retinitis" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 1 Indexes=SCIELO Timespan=All years
- #39 TS=(retina* NEAR/3 "vein" NEAR/3 occlu* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0
 Indexes=SCIELO Timespan=All years
- #38 TS=(retina* NEAR/3 detach* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 2

 Indexes=SCIELO Timespan=All years
- #37 TS=(macular* NEAR/3 degenerat* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 3
 Indexes=SCIELO Timespan=All years
- #36 TS=(retina* NEAR/3 degenerat* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 1
 Indexes=SCIELO Timespan=All years
- #35 TS=("diabetic retinopath*" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 30

 Indexes=SCIELO Timespan=All years
- #34 TS=(retina* NEAR/3 disease* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 3
 Indexes=SCIELO Timespan=All years
- #33 TS=(("myopia" OR "myopic") NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 5
 Indexes=SCIELO Timespan=All years
- # 32 TS=("hyperopia" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 4 Indexes=SCIELO Timespan=All years
- #31 TS=("astigmatism" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 6 Indexes=SCIELO Timespan=All years
- #30 TS=("refractive error*" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality"))
 11
 Indexes=SCIELO Timespan=All years
- # 29 TS=("optic atrophy" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0 Indexes=SCIELO Timespan=All years
- # 28 TS=("optic nerve" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 1 Indexes=SCIELO Timespan=All years

- TS=("glaucoma" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) # 27 11 Indexes=SCIELO Timespan=All years TS=(("ocular hypertens*" OR "intraocular hypertens*") NEAR/3 ("incidence" OR "prevalence" OR # 26 "epidemiology" OR "mortality")) 2 Indexes=SCIELO Timespan=All years # 25 TS=(cataract* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 25 Indexes=SCIELO Timespan=All years # 24 TS=("aphakia" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0 Indexes=SCIELO Timespan=All years TS=("lens" NEAR/3 disease* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR # 23 "mortality")) Indexes=SCIELO Timespan=All years # 22 TS=(infection* NEAR/3 eye* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) Indexes=SCIELO Timespan=All years TS=("retinitis pigmentosa" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) #21 Indexes=SCIELO Timespan=All years # 20 TS=("hereditary" NEAR/3 "eye" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) Indexes=SCIELO Timespan=All years # 19 TS=("keratoconus" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0 Indexes=SCIELO Timespan=All years
- # 18 TS=(cornea* NEAR/3 ulcer* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0 Indexes=SCIELO Timespan=All years
- # 17 TS=("keratitis" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 7 Indexes=SCIELO Timespan=All years
- #16 TS=((cornea* NEAR/3 (opaque* OR opac*)) NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 1
 Indexes=SCIELO Timespan=All years
- #15 TS=("corneal" NEAR/3 disease* NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0
 Indexes=SCIELO Timespan=All years
- # 14 TS=("xerophthalmia" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 0

Indexes=SCIELO Timespan=All years

- # 13 TS=("pterygium" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) Indexes=SCIELO Timespan=All years
- # 12 TS=("trachoma" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) 20 Indexes=SCIELO Timespan=All years
- #11 TS=("ophthalmia neonatorum" NEAR/3 ("incidence" OR "prevalence" OR "epidemiology" OR "mortality")) Indexes=SCIELO Timespan=All years
- # 10 TS=(("conjunctivitis" OR "conjunctival") NEAR/3 ("incidence" OR "prevalence" OR epidemiolog* OR "mortality")) Indexes=SCIELO Timespan=All years
- #9 TS=(("amaurosis" OR "deaf-blind") NEAR/3 ("incidence" OR "prevalence" OR epidemiolog* OR "morbidity")) Indexes=SCIELO Timespan=All years
- #8 TS=(vision* NEAR/3 impair* NEAR/3 ("incidence" OR "prevalence" OR epidemiolog* OR "morbidity")) Indexes=SCIELO Timespan=All years
- #7 TS=(visual* NEAR/3 impair* NEAR/3 ("incidence" OR "prevalence" OR epidemiolog* OR "morbidity")) 10 Indexes=SCIELO Timespan=All years
- #6 TS=(presbyopi* AND ("epidemiology" OR "incidence" OR "prevalence" OR "morbidity")) 7 Indexes=SCIELO Timespan=All years
- # 5 TS=(("low vision") AND ("epidemiology" OR "incidence" OR "prevalence" OR "mortality")) 25 Indexes=SCIELO Timespan=All years
- #4 TS=(("vision" NEAR/3 "binocular") AND ("epidemiology" OR "incidence" OR "prevalence" OR "mortality")) Indexes=SCIELO Timespan=All years
- # 3 TS=("visual acuity" AND ("epidemiology" OR "incidence" OR "prevalence" OR "mortality")) 180 Indexes=SCIELO Timespan=All years
- TS=("vision" AND ("epidemiology" OR "incidence" OR "prevalence" OR "mortality")) 378 # 2 Indexes=SCIELO Timespan=All years
- # 1 TS=("blindness" AND ("epidemiology" OR "incidence" OR "prevalence" OR "mortality")) 156

2.2.5 OpenGrey search

Source: OpenGrey

Interface / URL: http://www.opengrey.eu/

Database coverage dates: 1997-Search date: 09/10/18-10/10/18

Retrieved records: 54 Search strategy:

Each search line searched individually. The records were cut and pasted into a MS Word document as the option to export as an XML was not working. Duplicate records (those already found in OpenGrey by a previous search line) were excluded. The total of 54 identified records therefore excludes these duplicates.

blindness NEAR/5 (epidemiology OR incidence OR prevalence OR mortality) 1 result (vision NEAR/5 (epidemiology OR incidence OR prevalence OR mortality) 2 results (visual NEAR/5 (epidemiology OR incidence OR prevalence OR mortality) 5 results (presbyopi* NEAR/5 (epidemiology OR incidence OR prevalence OR morbidity) 0 results (visual* NEAR/5 impair* NEAR/5 (incidence OR prevalence OR epidemiolog* OR morbidity)) 2 results (vision* NEAR/5 impair* NEAR/5 (incidence OR prevalence OR epidemiolog* OR morbidity)) 0 results (amaurosis OR deaf-blind) NEAR/5 (incidence OR prevalence OR epidemiolog* OR morbidity) 0 results conjunctiv* NEAR/5 (incidence OR prevalence OR epidemiolog* OR mortality) 3 results ophthalmia neonatorum NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results trachoma NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 1 result pterygium NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results xerophthalmia NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results cornea* NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 1 result keratitis NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 1 result keratoconus NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 1 result eye NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 5 results retinitis pigmentosa NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 2 results lens NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 3 results aphakia NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results cataract* NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 7 results (intraocular OR ocular) NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 3 results

glaucoma NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 1 result

optic NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 2 results

refractive error* NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 11 results

astigmatism NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

hyperopia NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

(myopia OR myopic) NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 5 results

retina* NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 1 result

retinitis NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

retinopath* NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 3 results

macular* degenerat* NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 8 results

chorioretinitis NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

choroid NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

uveitis NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

amblyopia NEAR/5 (incidence OR prevalence OR epidemiology OR mortality) 0 results

"eye survey*" OR "vision survey*" OR "blindness survey*" OR "visual survey*" 4 results

2.2.6 World Health Organization search

Source: World Health Organization webpages

Interface / URL: http://www.who.int/

Database coverage dates: N/A

Search date: 10/10/18

Retrieved records: 9 (6 after duplicates removed)

Search strategy:

Blindness and visual impairment section of the webpage located using the "Health Topics" drop down menu http://www.who.int/blindness/vision-report/en/.

Content scanned by the information specialist for documents that may provide epidemiological data.

2.2.7 International Agency for the Prevention of Blindness search

Source: International Agency for the Prevention of Blindness

Interface / URL: https://www.iapb.org/

Database coverage dates: N/A

Search date: 10/10/18

Retrieved records: 38 (29 after duplicates removed)

Search strategy:

Document Library https://www.iapb.org/knowledge/document-library/ browsed by information specialist for potentially relevant publications likely to report epidemiological data.

2.2.8 International Council of Ophthalmology search

Source: International Council of Ophthalmology

Interface / URL: http://www.icoph.org/

Database coverage dates: N/A

Search date: 10/10/18

Retrieved records: 8 (6 after duplicates removed)

Search strategy:

Web pages browsed by information specialist for potentially relevant publications likely to report epidemiological

data.

2.2.9: International Eye Foundation search

Source: International Eye Foundation

Interface / URL: www.iefusa.org/ Database coverage dates: N/A

Search date: 11/10/187 Retrieved records: 0 Search strategy:

Web pages browsed by information specialist for potentially relevant publications likely to report epidemiological data.

2.2.10: Commonwealth Eye Health Consortium search

Source: Commonwealth Eye Health Consortium

Interface / URL: http://cehc.lshtm.ac.uk/

Database coverage dates: N/A

Search date: 11/10/18 Retrieved records: 0 Search strategy:

Web pages browsed by information specialist for potentially relevant publications likely to report epidemiological data.

2.2.11: International Centre for Eye Health (ICEH) search

Source: International Centre for Eye Health (ICEH)

Interface / URL: http://iceh.lshtm.ac.uk/

Database coverage dates: N/A

Search date: 11/10/18

Retrieved records: 89 (26 after duplicates removed)

Search strategy:

Web pages in the "Research" section browsed by information specialist for potentially relevant publications likely to report epidemiological data.

These were all references to ICEH authored journal publications rather than non-journal reports and other grey literature.

2.2.12: Brien Holden Vision Institute search

Source: Brien Holden Vision Institute

Interface / URL: https://www.brienholdenvision.org/

Database coverage dates: N/A

Search date: 11/10/18

Retrieved records: 47 (14 after duplicates removed)

Search strategy:

Web pages in the "Public Health Research" section browsed by information specialist for potentially relevant publications likely to report epidemiological data.

2.12.13: Sightsavers search

Source: Sightsavers

Interface / URL: https://www.sightsavers.org/

Database coverage dates: N/A

Search date: 11/10/18

Retrieved records: 11 (7 after duplicates removed)

Search strategy:

Web pages in the "Research Centre" section browsed by information specialist for potentially relevant publications likely to report epidemiological data.

Text 2.3. Results and Discussion (distance visual acuity data sources)

The combined previous searches for this project had identified 19040 unique records:

- The original search in 2008 yielded 10871 records;
- The 2012 update retrieved an additional 4038 unique records;
- The 2013 update retrieved an additional 2228 unique records;
- The 2014 update retrieved an additional 1903 unique records.

The 2018 update searches identified 39290 records (Table 6). Following deduplication against a) each other and b) the 19040 results of the previous searches, and the removal of records published before 1980 (841 records), 10092 records remained.

All searches are compromises. Strategies trade off sensitivity against precision, and decisions are made by research teams about the numbers of records that they are able to process in the time available. The strategy developed is reasonably sensitive and precise. It could have been made more sensitive, for example by increasing the value of the adj operator (so that words could occur further apart but still be retrieved), by using AND rather than adj or by using ep as a floating subheading that is not linked to specific MeSH. Sensitivity might also have been increased by identifying more synonyms and spelling variants for the eye diseases which may result in blindness. These approaches would have generated many more studies to assess for relevance, but might have retrieved additional relevant studies.

The strategy could also have been made more precise perhaps by omitting some of the combinations of eye diseases and epidemiology terms as text words in the title and abstract. However, increasing search precision usually risks losing relevant studies.

Text 2.4. Systematic review of studies of presbyopia prevalence

For the updated systematic review, the search strategy for distance sources included the 'presbyopia' term and studies that we identified reporting presbyopia prevalence were added to the database.

Only population-based surveys with one or more measurements of near vision and/or the prevalence of spectacle wear for presbyopia were included. On full text review, papers were additionally excluded if they did not specify the number of eligible participants or participation rate, if data were from a specific population that could not be generalized to the population as a whole or there was an unspecified method for determining whether near vision impairment was the result of ocular disease or from refractive error.

Text 3. Methods for comparability of vision impairment definition

MR-BRT ² was used to adjust non-reference data to the reference definition of presenting vision data that fit within the WHO severity categories using data from studies that did not involve RAAB methodology. Data that spanned thresholds (either prevalence data for moderate and severe vision loss combined, or severe vision loss and blindness combined) were split into reference severity groups (moderate vision loss, severe vision loss, blindness) using a log ratio meta-regression with a cubic spline on age with linear tails. The input data for this meta-regression came from studies that provided matched age, year, sex and location data for each severity level (for example, moderate vision loss and severe vision loss separately).

Figure 2 shows, across ages, model fit with grey shading for uncertainty intervals overlaid with the model input data. Input data that were trimmed from the model are shown in red. Figure 2 demonstrates that the ratio of moderate to severe vision loss prevalence got smaller as age increased, whereas the ratio of blindness to severe vision loss got larger as age increased.

Studies that reported best-corrected visual acuity only were adjusted to the reference definition of presenting visual acuity, and studies that were collected using RAAB methodology were adjusted to the reference definition of non-RAAB vision tests using logit difference meta-regressions by severity level. The beta coefficients from the rapid and best-corrected meta-regressions for each severity level are shown in the Table 7. A negative coefficient indicates that the data were adjusted upward.

The best-corrected adjustment impacted a proportion of the data for each model: 11 of 60 sources for mild vision loss, 51 of 367 sources for moderate vision loss, 61 of 353 sources for severe vision loss, and 70 of 437 sources for blindness. The rapid methodology adjustment impacted a larger proportion of the data for each model: 29 of 60 sources for mild vision loss, 212 of 367 sources for moderate vision loss, 210 of 353 sources for severe vision loss, and 236 of 437 sources for blindness.

Text 4. Methods for comparability of data aggregated by age

If input data were collected for age ranges of greater than or equal to 25 years, these data were split into 5-year age bins using the super-regional age pattern generated in preliminary models that only included input data with age ranges of less than or equal to 25 years for a given severity and cause of vision loss. An inherent flaw in the method of age splitting is that some wide age data points after age splitting can reach implausibly high values at oldest ages. We decided in those cases not to age split the data.

Text 5. Methods for calculating prevalence of vision impairment by country, year, age, and sex

Studies that only reported "both" sex information were split into male- and female-specific data points by identifying within-study data points matched on age, year, and location that did report male and female data separately, and then using the log ratio of female to male prevalence from these studies as input data into a mixed-effects meta-regression tool developed at the IHME called MR-BRT (Meta Regression; Bayesian; Regularized; Trimmed). This tool was developed in part to allow for the ability to propagate between-study heterogeneity as part of the uncertainty adjustment, and to allow trimming of outlier input data. A detailed description of MR-BRT has been published elsewhere. Results of this model and demographics data on population by location were used to determine male prevalence:

$$prev_{male} = prev_{both} * \frac{pop_{both}}{\left(pop_{male} + ratio * pop_{female}\right)}$$

And then female prevalence:

$$prev_{female} = ratio * prev_{male}$$

For Dismod modeling, all input data from all locations were used in a mixed effects nonlinear model for a global estimate of disease burden. Model outputs (global fit plus fixed effects plus random effects) were used in a cascade as a prior for estimates in seven super-regions, which in turn were used as priors for 21 regional estimates, and then country estimates, and finally subnational estimates for a subset of countries. Final estimates for each geographical level were calculated by aggregation, where the country final was the sum of subnational estimates, regional final was the sum of country final estimates, etc. For Dismod modelling, predictive covariates included sociodemographic index and/or healthcare access quality index, and sex, and remaining unexplained variance went into random effects for locations with input data. Table 8 presents the fixed effects for sex (study-level covariate), healthcare access quality index (country-level covariate), and/or sociodemographic index that were included in Dismod models.

Age-standardization was computed using a standard population age structure that is updated in each GBD round. Currently, the standard population is taken as the average of age-specific distributions (non-weighted) from GBD 2019 population estimates for countries with at least 5 million people in the year 2019.

Text 6. Calculation of Years Lived with Disability (YLDs)

Final estimates for vision loss were used to calculate Years Lived with Disability (YLDs) based on disability weights assigned to each severity of vision loss, and, finally, adjusted for comorbidity with any other causes of non-fatal health loss. The health states and corresponding disability weights for vision are listed in the Table 9.

Text 7. GATHER compliance and access to code used in the analytical model

Estimates were produced in compliance with the Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER).⁶ Access to the GBD 2019 code (including Dismod engine and wrapper)can be obtained via this link:

http://ghdx.healthdata.org/gbd-2019/code

References:

- [1] Global burden of 359 diseases, injuries, and impairments, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019" by GBD 2019 Diseases, Injuries, and Impairments Collaborators, in press.
- [2] Zheng P, Aravkin AY, Barber R, Sorensen RJD, Murray CJL. Trimmed Constrained Mixed Effects Models: Formulations and Algorithms. 25 Sept 2019. https://arxiv.org/abs/1909.10700 (accessed 20 June 2020).
- [3] Bourne R, Price H, Taylor H. New Systematic Review Methodology for Visual Impairment and Blindness for the 2010 Global Burden of Disease Study. Ophthalmic Epidemiology, 20(1):33–39, 2013.
- [4] Bourne RRA, Flaxman SR, Braithwaite T, et al. Magnitude, temporal trends, and projections of the global prevalence of blindness and distance and near vision impairment: a systematic review and meta-analysis. Lancet Glob Health 2017; 5(9): e888-e97.

- [5] Holden Brien A, Fricke Timothy R, Ho S May, Wong Reg, Schlenther Gerhard, Cronj´e Sonja, Burnett Anthea, Papas Eric, Naidoo Kovin S, Frick Kevin D. Global vision impairment due to uncorrected presbyopia. Archives of ophthalmology, 126(12):1731–1739, 2008.
- [6] Stevens GA, Alkema L, Black RE, Boerma JT, Collins GS, Ezzati M, Grove JT, Hogan DR, Hogan MC, Horton R, Lawn JE, Marušić A, Mathers CD, Murray CJ, Rudan I, Salomon JA, Simpson PJ, Vos T, Welch V; (The GATHER Working Group). Guidelines for Accurate and Transparent Health Estimates Reporting: the GATHER statement. Lancet. 2016 Dec 10;388(10062):e19-e23.

Table 1. Countries and territories in analysis regions.

Central Europe, eastern Europe, and central Asia						
Central Asia	Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Mongolia, Tajikistan, Turkmenistan, Uzbekistan					
Central Europe	Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Hungary, Montenegro, North Macedonia, Poland (subnational), Romania, Serbia, Slovakia, Slovenia					
Eastern Europe Belarus, Estonia, Latvia, Lithuania, Moldovia, Russia (subnational), Ukraine						
	High income					
Australasia	Australia, New Zealand (subnational Maori + non-Maori)					
High-income Asia Pacific	Brunei, Japan (subnational), Singapore, South Korea					
High-income North America	Canada, Greenland, United States (subnational)					
Southern Latin America Argentina, Chile, Uruguay						
Western Europe	Andorra, Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Israel, Italy (subnational), Luxembourg, Malta, Monaco, Netherlands, Norway (subnational), Portugal, Sweden (subnational Stockholm + not Stockholm), United Kingdom (subnational; two levels of subnats)					
	Latin America and Caribbean					
Andean Latin America	Bolivia, Ecuador, Peru					
Caribbean	Antigua and Barbuda, Bahamas, Barbados, Belize, Bermuda, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, Puerto Rico, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, US Virgin Islands					
Central Latin America Colombia, Costa Rica, El Salvador, Guatemala, Hondura Mexico (subnational), Nicaragua, Panama, Venezuela						
Tropical Latin America Brazil (subnational), Paraguay						
North Africa and Middle East						

North Africa and Middle East Afghanistan, Algeria, Bahrain, Egypt, Iran (subnational), Iraq, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Palestine, Qatar, Saudi Arabia, Sudan, Syria, Tunisia, United Arab Emirates, Yemen				
	South Asia			
South Asia	Bangladesh, Bhutan, India (subnational; by state + rural and urban), Nepal, Pakistan (subnational)			
S	Southeast Asia, east Asia, Oceania			
East Asia	China, North Korea, Taiwan (province of China)			
Oceania	American Samoa, Cook Islands, Federated States of Micronesia, Fiji, Guam, Kiribati, Marshall Islands, Nauru, Niue, Northern Mariana Islands, Palau, Papua New Guinea, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, Vanuatu			
Southeast Asia	Cambodia, Indonesia (subnational), Laos, Malaysia, Maldives, Mauritius, Myanmar, Philippines (subnational), Seychelles, Sri Lanka, Thailand, Timor-Leste, Vietnam			
	Sub-Saharan Africa			
Central sub-Saharan Africa Angola, Central African Republic, Congo (Brazzavill Democratic Republic of the Congo, Equatorial Guine Gabon				
Eastern sub-Saharan Africa	Burundi, Comoros, Djibouti, Eritrea, Ethiopia (subnational), Kenya (subnational), Madagascar, Malawi, Mozambique, Rwanda, Somalia, South Sudan, Tanzania, Uganda, Zambia			
Southern sub-Saharan Africa Botswana, eSwatini, Lesotho, Namibia, South Africa (subnational)				
Western sub-Saharan Africa	Benin, Burkina Faso, Cape Verde, Cameroon, Chat, Côte D'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria (subnational), São Tomé and Príncipe, Senegal, Sierra Leone, Togo			

Table 2. Characteristics of data sources used in the analysis that reported distance vision impairment.

Country	Coverage	Rap	Presentin	Core	Year	Year	Reference
		id	g or best- corrected	visual acuity	study starte	study ende	
				level(s)	d	d	
Afghanistan	Subnational	Yes	Presenting	MSVI, blind, moderate , severe	2010	2010	Comprehensive Health and Education Forum International (CHEF) (Pakistan), International Centre for Eye Health (ICEH). Afghanistan Rapid Assessment of Avoidable Blindness 2010.
				blind,			Barrenechea R, de la Fuente I, Plaza RG, Flores N, Segovia L, Villagómez Z, Camarero EE, Zepeda-Romero LC, Lansingh VC, Limburg H, Silva JC. National survey of blindness and avoidable visual impairment in Argentina, 2013. Rev Panam Salud Publica. 2015; 37(1): 7-
Argentina	National	Yes	Presenting	, severe	2013	2013	12.
Argentina	Subnational	Yes	Both	MSVI, blind, moderate , severe	2003	2003	International Centre for Eye Health (ICEH). Argentina - Buenos Aires Rapid Assessment of Avoidable Blindness 2003. Grootebroek, Netherlands: RAAB Repository.
Argentina	National	Yes	Both	MSVI, blind, moderate , severe	2013	2013	International Centre for Eye Health (ICEH). Argentina Rapid Assessment of Avoidable Blindness Survey 2013. Grootebroek, Netherlands: RAAB Repository, 2013.
Australia	Subnational	No	Best- corrected	blind, moderate , severe	1992	1992	Casson R, Giles L, Newland HS. Prevalence of blindness and visual impairment in an elderly urban population. Aust N Z J Ophthalmol. 1996; 24(3): 239-43. Chia E-M, Mitchell P,
Australia	Subnational	No	Presenting	blind, moderate	1997	1999	Rochtchina E, Foran S, Golding M, Wang JJ. Association between vision and hearing impairments and their combined effects on quality of life. Arch

	1			1		1	
							Ophthalmol. 2006; 124(10): 1465-70.
							Dimitrov PN, Mukesh
							BN, McCarty CA, Taylor
							HR. Five-year incidence
							of bilateral cause-specific
							visual impairment in the
							Melbourne Visual
				blind,			Impairment Project.
				mild,			Invest Ophthalmol Vis
				moderate			Sci. 2003; 44(12): 5075-
Australia	Subnational	No	Presenting	, severe	1992	1999	81.
							Foran S, Wang JJ,
							Mitchell P. Causes of
							visual impairment in two
							older population cross-
							sections: the Blue
				blind,			Mountains Eye Study.
				moderate			Ophthalmic Epidemiol.
Australia	Subnational	No	Presenting	, severe	1992	1994	2003; 10(4): 215-25.
							Pai AS-I, Wang JJ,
							Samarawickrama C,
							Burlutsky G, Rose KA,
							Varma R, Wong TY,
							Mitchell P. Prevalence
							and risk factors for visual
							impairment in preschool
				1 1 1			children the Sydney
				blind,			Paediatric Eye Disease
A41:	C1	NI.	D	moderate	2007	2000	Study. Ophthalmology.
Australia	Subnational	No	Presenting	, severe	2007	2009	2011; 118(8): 1495-500.
							Taylor HR, Livingston PM, Stanislavsky YL,
							McCarty CA. Visual
							impairment in Australia:
				blind,			distance visual acuity,
				mild,			near vision, and visual
				moderate			field findings of the
				, near			Melbourne Visual
				vision			Impairment Project. Am J
				loss,	1992,	1994,	Ophthalmol. 1997;
Australia	Subnational	No	Presenting	severe	1994	1996	123(3): 328-37.
							VanNewkirk MR, Weih
					1		L, McCarty CA, Taylor
					1		HR. Cause-specific
							prevalence of bilateral
							visual impairment in
					1		Victoria, Australia: the
				blind,			Visual Impairment
				moderate	1992,	1995,	Project. Ophthalmology.
Australia	Subnational	No	Presenting	, severe	1996	1996	2001; 108(5): 960-7.
					1		Wang JJ, Foran S,
					1		Mitchell P. Age-specific
							prevalence and causes of
					1		bilateral and unilateral
				1.101			visual impairment in
			Doct	blind,			older Australians: the
A 110tmc 1:-	Cyslem at:1	NI-	Best-	moderate	1002	1004	Blue Mountains Eye
Australia	Subnational	No	corrected	, severe	1992	1994	Study. Clin Experiment

	1	1	1	1		1	Lo 1.1.1. 1.2000 20(4)
							Ophthalmol. 2000; 28(4): 268-73.
							CSF Global
							(Bangladesh),
							International Centre for
							Eye Health (ICEH).
				MSVI,			Bangladesh - Barisal
				blind,			Rapid Assessment of
				moderate			Avoidable Blindness
Bangladesh	Subnational	Yes	Both	, severe	2013	2013	2013.
Builgiuusii		100	2011	, , , , , , , , ,	2010	2010	CSF Global
							(Bangladesh),
							International Centre for
							Eye Health (ICEH).
							Bangladesh -
				MSVI,			Brahmanbaria and
				blind,			Satkhira Districts Rapid
				moderate			Assessment of Avoidable
Bangladesh	Subnational	Yes	Presenting	, severe	2012	2012	Blindness 2012.
							CSF Global
							(Bangladesh),
							International Centre for
							Eye Health (ICEH).
							Bangladesh - Gazipur,
							Kishoreganj, and Cox's
							Bazar Districts Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2010.
				blind,			Grootebroek,
D 1 1 1	C14:1	V	D -41-	moderate	2010	2010	Netherlands: RAAB
Bangladesh	Subnational	Yes	Both	, severe	2010	2010	Repository. CSF Global
							(Bangladesh),
							International Centre for
							Eye Health (ICEH).
				MSVI,			Bangladesh - Narail and
				blind,			Jamalpur Districts Rapid
				moderate			Assessment of Avoidable
Bangladesh	Subnational	Yes	Both	, severe	2010	2010	Blindness 2010.
							CSF Global
							(Bangladesh),
							International Centre for
							Eye Health (ICEH).
							Bangladesh - Satkhira
							District Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2005.
				blind,			Grootebroek,
D 1 1 1	0.1	1,7	D. d	moderate	2005	2005	Netherlands: RAAB
Bangladesh	Subnational	Yes	Both	, severe	2005	2005	Repository.
							CSF Global
							(Bangladesh),
							International Centre for Eye Health (ICEH).
							Bangladesh - Tangail
							Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			2011. Grootebroek,
				moderate			Netherlands: RAAB
Bangladesh	Subnational	Yes	Both	, severe	2011	2011	Repository.
			i	. /			i 1 /

	•		•	•			
							International Centre for
							Eye Health (ICEH),
							National Institute of
				1 601 11			Ophthalmology
				MSVI,			(Bangladesh).
				blind,			Bangladesh National
				mild,			Blindness and Low
D 1 1 1	NT 41 1	3.7	D. d	moderate	1000	2000	Vision Prevalence Survey
Bangladesh	National	No	Both	, severe	1999	2000	1999-2000.
							International Centre for
							Eye Health (ICEH).
							Bangladesh - Kushtia
							Rapid Assessment of Avoidable Blindness
				MCVI			
				MSVI, blind,			Survey 2011. Grootebroek,
				moderate			Netherlands: RAAB
Bangladesh	Subnational	Yes	Both	, severe	2011	2011	Repository, 2011.
Dangladesh	Subliational	103	Don	, severe	2011	2011	Wadud Z, Kuper H,
							Polack S, Lindfield R,
			1				Akm MR, Choudhury
			1				KA, Lindfield T,
			1				Limburg H, Foster A.
			1				Rapid assessment of
							avoidable blindness and
							needs assessment of
							cataract surgical services
				MSVI,			in Satkhira District,
				blind,			Bangladesh. Br J
				moderate			Ophthalmol. 2006;
Bangladesh	Subnational	Yes	Presenting	, severe	2005	2005	90(10): 1225-9.
							Bourne R, Global Burden
							of Disease Vision Loss
							Expert Group. Vision
							Loss Database - Survey
							Data on Vision Loss by
Bangladesh,				MSVI,	1994,	1995,	Severity and Etiology.
Thailand	National	No	Presenting	moderate	1999	2000	[Unpublished].
							Hyman L, Wu SY,
							Connell AM, Schachat A,
							Nemesure B, Hennis A,
			1				Leske MC. Prevalence
					1		and causes of visual
			1	1.151			impairment in The
			Past	blind,	1		Barbados Eye Study.
Barbados	National	Na	Best-	moderate	1988	1002	Ophthalmology. 2001;
Darbados	rvauonai	No	corrected	, severe	1700	1992	108(10): 1751-6. International Centre for
			1				Eye Health (ICEH).
			1				Bhutan Rapid
					1		Assessment of Avoidable
			1	MSVI,			Blindness Survey 2009.
			1	blind,			Grootebroek,
			1	moderate			Netherlands: RAAB
Bhutan	National	Yes	Both	, severe	2009	2009	Repository, 2009.
21100011	1.mionai	2.05	20011	, 23, 210		_507	Lepcha NT, Chettri CK,
				MSVI,	1		Getshen K, Rai BB,
			1	blind,			Ramaswamy SB, Saibaba
1	ĺ	1	1	-	1	1	
				moderate			S, Nirmalan PK.
Bhutan	National	Yes	Presenting	moderate , severe	2010	2012	S, Nirmalan PK, Demarchis EH, Tabin G,

	1		1	1		1	36 1 36 36 1 77
							Morley M, Morley K. Rapid assessment of
							avoidable blindness in
							Bhutan. Ophthalmic
							Epidemiol. 2013; 20(4):
							212-9.
							International Centre for
							Eye Health (ICEH).
							Botswana Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2013-2014.
				blind,			Grootebroek,
D (37.2.1	3.7	D .:	moderate	2012	2014	Netherlands: RAAB
Botswana	National	Yes	Presenting	, severe	2013	2014	Repository.
							Araújo Filho A, Salomão
							SR, Berezovsky A,
							Cinoto RW, Morales PHA, Santos FRG,
							Belfort R Jr. Prevalence
							of visual impairment,
							blindness, ocular
							disorders and cataract
							surgery outcomes in low-
							income elderly from a
							metropolitan region of
				MSVI,			São Paulo-Brazil. <i>Arq</i>
				blind,			Bras Oftalmol. 2008;
Brazil	Subnational	No	Both	severe	2002	2002	71(2): 246-53.
							Furtado JM, Berezovsky
							A, Ferraz NN, Muñoz S, Fernandes AG, Watanabe
							SS, Cunha CC,
							Vasconcelos GC, Sacai
							PY, Cypel M, Mitsuhiro
							MH, Morales PH, Cohen
							MJ, Campos M, Cohen
							JM, Belfort R Jr,
							Salomão SR. Prevalence
							and Causes of Visual
							Impairment and
							Blindness in Adults Aged
				11' 1			45 Years and Older from
				blind,			Parintins: The Brazilian
				mild, moderate			Amazon Region Eye Survey. Ophthalmic
Brazil	Subnational	No	Presenting	, severe	2014	2015	Epidemiol. 2019; 1-10.
DIMAII	Saonanonai	110	1 resenting	, 50 1010	2017	2013	International Centre for
							Eye Health (ICEH).
							Brazil - Campinas Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2004.
				blind,			Grootebroek,
				moderate	2003,	2003,	Netherlands: RAAB
Brazil	Subnational	Yes	Both	, severe	2004	2004	Repository.
							Salomao SR, Cinoto RW,
							Berezovsky A, Araujo-
				blind,			Filho A, Mitsuhiro MRKH, Mendieta L,
				moderate			Morales PHA, Pokharel
Brazil	Subnational	No	Presenting	, severe	2004	2004	GP, Belfort R Jr, Ellwein
214211	~ achanonar	110	1 1 counting	, 55 , 510	200 f	2007	,

	LB. Prevalence and
	causes of vision
	impairment and blindness
	in older adults in Brazil:
	the Sao Paulo Eye Study.
	Ophthalmic Epidemiol.
	2008; 15(3): 167-75.
	Schellini SA, Durkin SR,
	Hoyama E, Hirai F,
	Cordeiro R, Casson RJ,
	Selva D, Padovani CR.
	Prevalence and causes of
	visual impairment in a
l M	SVI, Brazilian population: the
	nd, Botucatu Eye Study.
	oderate BMC Ophthalmol. 2009;
	evere 2006 2007 9: 8.
Brazir Subnational Tree Treething 3,5	Vassileva P, Gieser SC,
	Viasile Vitale S, Cholakova T,
	Katz J, West S. Blindness
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SVI, and visual impairment in
	ind, western Bulgaria.
	,
Bulgaria Subnational No Presenting , s	, , ,
	International Centre for
	Eye Health (ICEH).
	Burkina Faso - West
	Central Rapid
	Assessment of Avoidable
	SVI, Blindness 2011.
	nd, Grootebroek,
	oderate Netherlands: RAAB
Faso Subnational Yes Both , s	evere 2011 2011 Repository.
	International Centre for
	Eye Health (ICEH).
	Burundi - Ngozi and
	Kayanza Rapid
	Assessment of Avoidable
	SVI, Blindness 2010.
	nd, Grootebroek,
	oderate Netherlands: RAAB
	evere 2010 2010 Repository.
Switcher 100 Bon 1,0	Kandeke L, Mathenge W,
	Giramahoro C,
	Undendere F-PA,
	Ruhagaze P, Habiyakare
	C, Courtright P, Lewallen
	S. Rapid assessment of
	avoidable blindness in
	two northern provinces of
	SVI, Burundi without eye
	services. Ophthalmic
	oderate 2009, Epidemiol. 2012; 19(4):
Burundi Subnational Yes Presenting , s	evere 2010 2010 211-5.
	Schémann JF, Inocencio
	F, de Lourdes Monteiro
	SVI, M, Andrade J, Auzemery
	nd, A, Guelfi Y. Blindness
me me	oderate and low vision in Cape
Cabo Verde National No Presenting , s	evere 1998 1998 Verde Islands: results of

	1	1	1	1		1	Ι
							a national eye
							survey. Ophthalmic
							<i>Epidemiol.</i> 2006; 13(4):
							219-26. International Centre for
							Eye Health (ICEH),
							Subcommittee for the
							Prevention of Blindness
				MSVI,			(Cambodia). Cambodia -
				blind,			Battambang Rapid
				moderate			Assessment of Cataract
Cambodia	Subnational	Yes	Presenting	, severe	2002	2002	Surgical Services 2002.
			3	,			International Centre for
							Eye Health (ICEH),
							Subcommittee for the
							Prevention of Blindness
				MSVI,			(Cambodia). Cambodia -
				blind,			Kampong Cham Rapid
G 1 1'		3.7	D .:	moderate	2002	2002	Assessment of Cataract
Cambodia	Subnational	Yes	Presenting	, severe	2002	2002	Surgical Services 2002.
							International Centre for
							Eye Health (ICEH), Subcommittee for the
							Prevention of Blindness
				MSVI,			(Cambodia). Cambodia -
				blind,			Kampot Rapid
				moderate			Assessment of Cataract
Cambodia	Subnational	Yes	Presenting	, severe	2002	2002	Surgical Services 2002.
							International Centre for
							Eye Health (ICEH).
							Cambodia - Takeo Rapid
							Assessment for
				MSVI,			Avoidable Blindness
				blind,			2011-2012. Grootebroek,
C1 4:-	Cl	V	D -41-	moderate	2011	2012	Netherlands: RAAB
Cambodia	Subnational	Yes	Both	, severe	2011	2012	Repository. International Centre for
							Eye Health (ICEH).
				MSVI,			Cambodia Rapid
				blind,			Assessment for
				moderate			Avoidable Blindness
Cambodia	National	Yes	Presenting	, severe	2007	2007	2007.
							Rutzen AR, Ellish NJ,
							Schwab L, Graham PJ,
							Pizzarello LD, Hemady
							RK, Maldonado MJ.
				MSVI,			Blindness and eye
				blind,			disease in Cambodia.
Comple - 11	C., b 4: 1	NT-	D	moderate	1006	1006	Ophthalmic Epidemiol.
Cambodia	Subnational	No	Presenting	, severe	1996	1996	2007; 14(6): 360-6. Oye J, Mactaggart I,
							Polack S, Schmidt E,
							Tamo V, Okwen M,
							Kuper H. Prevalence and
							Causes of Visual
							Impairment in Fundong
							District, North West
				blind,			Cameroon: Results of a
				moderate			Population-Based
Cameroon	Subnational	No	Presenting	, severe	2013	2013	Survey. Ophthalmic

	I	1	1	T	1	1	Enidomial 2017, 24(6).
							Epidemiol. 2017; 24(6): 394-400.
Cameroon	Subnational	Vas	Dracanting	MSVI, blind, moderate	2005	2005	Oye JE, Kuper H, Dineen B, Befidi-Mengue R, Foster A. Prevalence and causes of blindness and visual impairment in Muyuka: a rural health district in South West Province, Cameroon. Br J Ophthalmol. 2006; 90(5): 538-42.
Cameroon	Subnational	Yes	Presenting	, severe	2005	2005	Oye JE, Kuper H.
Cameroon	Subnational	Yes	Presenting	MSVI, blind, moderate , severe	2005	2005	Prevalence and causes of blindness and visual impairment in Limbe urban area, South West Province, Cameroon. Br J Ophthalmol. 2007; 91(11): 1435-9.
							Wilson MR, Mansour M, Ross-Degnan D, Moukouri E, Fobi G, Alemayehu W, Martone JF, Casey R, Bazargan M. Prevalence and causes of low vision and
				11111			blindness in the Extreme North Province of
Cameroon	Subnational	No	Presenting	blind, moderate , severe	1992	1992	Cameroon, West Africa. Ophthalmic Epidemiol. 1996; 3(1): 23-33.
				MSVI, blind, moderate			International Centre for Eye Health (ICEH). Chile - Biobio Rapid Assessment of Avoidable Blindness 2006. Grootebroek, Netherlands: RAAB
Chile	Subnational	Yes	Both	, severe	2006	2006	Repository.
Chile, China, India, Japan, Malaysia, Nepal, South Africa	Subnational	No	Both	MSVI, blind, moderate , severe	1997, 1998, 2000, 2002, 2003	1998, 2000, 2001, 2002, 2003	Gilbert CE, Ellwein LB. Prevalence and causes of functional low vision in school-age children: results from standardized population surveys in Asia, Africa, and Latin America. Invest Ophthalmol Vis Sci. 2008; 49(3): 877-81.
				MSVI,			Chen H, Wu X, Wei M, Eichner JE, Fan Y, Zhang Z, Lei C, Stone DU, Yang J. Changes in the prevalence of visual impairment due to blinding trachoma in
China	Subnational	No	Presenting	blind, moderate , severe	1987, 2006	1987, 2006	Sichuan province, China: a comparative study between 1987 and 2006.

	1	ı	1	1	1		
							Ophthalmic Epidemiol. 2012; 19(1): 29-37.
China	Subnational	No	Both	MSVI, blind, moderate , severe	2016	2017	Chen X, Zhou D, Shen J, Wu Y, Sun Q, Dong J, Yu J. Prevalence and Causes of Visual Impairment in Adults in Binhu District, Wuxi, China. Med Sci Monit. 2018; 24: 317-323.
				MSVI, blind, moderate , near vision loss,			Cheng F, Shan L, Song W, Fan P, Yuan H. Distance- and near-visual impairment in rural Chinese adults in Kailu, Inner Mongolia. Acta Ophthalmol. 2016; 94(4):
China	Subnational	No	Both	severe	2009	2009	407-13.
China	Subnational	No	Presenting	blind, moderate , severe	2007	2007	Congdon N, Wang Y, Song Y, Choi K, Zhang M, Zhou Z, Xie Z, Li L, Liu X, Sharma A, Wu B, Lam DSC. Visual disability, visual function, and myopia among rural Chinese secondary school children: the Xichang Pediatric Refractive Error Study (X-PRES)—Report 1. Invest Ophthalmol Vis Sci. 2008; 49(7): 2888- 94. Gan S, Zhou X, Yan J, Liu X, Yi J, Zhou X, Liu
China	Subnational	No	Presenting	blind, moderate , severe	2015	2015	D, Xie Q, Geng J, Lu Y. The prevalence and risk factors of visual impairment among rural residents aged 50 years and above in Yugan county, China. Ophthalmic Epidemiol. 2018; 25(5-6): 331-337.
China	Subnational	No	Both	blind, moderate , severe	2005	2005	He M, Huang W, Zheng Y, Huang L, Ellwein LB. Refractive error and visual impairment in school children in rural southern China. Ophthalmology. 2007; 114(2): 374-82.
China	Subnational	No	Both	blind, moderate , severe	2002	2003	He M, Zeng J, Liu Y, Xu J, Pokharel GP, Ellwein LB. Refractive error and visual impairment in urban children in southern China. Invest Ophthalmol Vis Sci. 2004; 45(3): 793-9.

			T	T	ı	1	
							Huang S, Zheng Y,
							Foster PJ, Huang W, He
							M. Prevalence and causes
							of visual impairment in
							Chinese adults in urban
				blind,			southern China. Arch
				moderate			Ophthalmol. 2009;
China	Subnational	No	Presenting	, severe	2003	2004	127(10): 1362-7.
							International Centre for
							Eye Health (ICEH).
							China - Gao'an Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2007.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
China	Subnational	Yes	Both	, severe	2007	2007	Repository.
							International Centre for
							Eye Health (ICEH).
				MSVI,			China - Inner Mongolia
				blind,			Shangdu Rapid
				moderate			Assessment of Avoidable
China	Subnational	Yes	Both	, severe	2010	2010	Blindness 2010.
						1	International Centre for
							Eye Health (ICEH).
				MSVI,			China - Inner Mongolia
				blind,			Tuoketuo Rapid
e				moderate	•	2010	Assessment of Avoidable
China	Subnational	Yes	Both	, severe	2010	2010	Blindness 2010.
							International Centre for
							Eye Health (ICEH).
							China - Jianchuan Rapid
				NOVE			Assessment of Avoidable
				MSVI,			Blindness 2012.
				blind,			Grootebroek,
CIL	G-1 1	37	D	moderate	2012	2012	Netherlands: RAAB
China	Subnational	Yes	Presenting	, severe	2012	2012	Repository.
							International Centre for
							Eye Health (ICEH).
							China - Kunming Rapid Assessment of Avoidable
				MSVI,			Blindness 2006.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
China	Subnational	Yes	Both	, severe	2006	2006	Repository.
Cillia	Suomanoman	1 08	Doni	, 50 1010	2000	2000	International Centre for
							Eye Health (ICEH).
							China - Lancang Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2012.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
China	Subnational	Yes	Presenting	, severe	2012	2012	Repository.
		<u> </u>					International Centre for
							Eye Health (ICEH).
				MSVI,			China - Sichuan Dechang
				blind,			Rapid Assessment of
				moderate			Avoidable Blindness
China	Subnational	Yes	Both	, severe	2011	2011	2011.
				MSVI,			International Centre for
China	Subnational	Yes	Both	blind,	2017	2018	Eye Health (ICEH).

	1		1	T	1	ı	
				mild, moderate , severe			China - Sichuan Garzé Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB
							Repository.[Unpublished].
China	Subnational	Yes	Both	MSVI, blind, moderate , severe	2011	2011	International Centre for Eye Health (ICEH). China - Sichuan Mianning Rapid Assessment of Avoidable Blindness 2011.
				MSVI, blind, moderate			International Centre for Eye Health (ICEH). China - Wanzai Rapid Assessment of Avoidable Blindness 2007. Grootebroek, Netherlands: RAAB
China	Subnational	Yes	Both	, severe	2007	2007	Repository.
China	Subnational	Yes	Both	MSVI, blind, moderate	2007	2007	International Centre for Eye Health (ICEH). China - Xingan Rapid Assessment of Avoidable Blindness 2007. Grootebroek, Netherlands: RAAB Repository.
China	Subnational	Yes	Both	MSVI, blind, mild, moderate , severe	2015	2015	International Centre for Eye Health (ICEH). China - Xinjiang Rapid Assessment of Avoidable Blindness 2015. Grootebroek, Netherlands: RAAB Repository.
China	Subnational	No	Presenting	MSVI, blind	2008	2008	International Centre for Eye Health (ICEH). China - Yunnan Luliang County Rapid Assessment for Avoidable Blindness 2008. Grootebroek, Netherlands: RAAB Repository, 2008.
Chira	Suka-4i 1	V	Dath	MSVI, blind, moderate	2009	2000	International Centre for Eye Health (ICEH). China - Yunnan Luliang Rapid Assessment of Avoidable Blindness 2008. Grootebroek, Netherlands: RAAB
China	Subnational	Yes	Both	, severe	2008	2008	Repository, 2008.
China	Subnational	Vac	Dragantina	MSVI, blind, moderate	2009,	2010	Li EY, Liu Y, Zhan X, Liang YB, Zhang X, Zheng C, Jhanji V, Xu P, Chang DF, Lam DS. Prevalence of blindness
China	Subnational	Yes	Presenting	, severe	2010	2010	r revalence of bilinaness

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							and outcomes of cataract
							surgery in Hainan
							Province in South China.
							Ophthalmology. 2013;
							120(11.0): 2176-83.
							Li J, Zhong H, Cai N,
							Luo T, Li J, Su X, Li X,
							Qiu X, Yang Y, Yuan Y,
							Yu M. The prevalence
							and causes of visual
							impairment in an elderly
							Chinese Bai ethnic rural
				MSVI,			population: the Yunnan minority eye study.
				blind,			Invest Ophthalmol Vis
				moderate	2009,	2010,	Sci. 2012; 53(8): 4498-
China	Subnational	No	Presenting	, severe	2010	2010,	504.
Cillia	Subilational	110	Trescriting	, severe	2010	2011	Li L, Guan H, Xun P,
							Zhou J, Gu H. Prevalence
			1				and causes of visual
			1	MSVI,			impairment among the
				blind,			elderly in Nantong,
				moderate	1998,	1998,	China. Eye (Lond). 2008;
China	Subnational	No	Both	, severe	2003	2003	22(8): 1069-75.
							Li S, Xu J, He M, Wu K,
							Munoz SR, Ellwein LB.
							A survey of blindness
							and cataract surgery in
				blind,			Doumen County, China.
				moderate			Ophthalmology. 1999;
China	Subnational	No	Presenting	, severe	1997	1997	106(8): 1602-8.
							Li T, Du L, Du L.
							Prevalence and Causes of Visual Impairment and
							Blindness in Shanxi
				MSVI,			Province,
				blind,			China. Ophthalmic
				moderate			Epidemiol. 2015; 22(4):
China	Subnational	No	Both	, severe	2006	2006	239-45.
				, , , , , , , , , , , , , , , , , , , ,			Li X, Zhou Q, Sun L,
			1				Wang Z, Han S, Wu S,
			1				Wang N. Prevalence of
					1		blindness and low vision
			1				in a rural population in
			1				northern China:
			1				preliminary results from
					1		a population-based
			1	blind,			survey. Ophthalmic
CI.:	C-1 1	N.T	D	moderate	2010	2010	Epidemiol. 2012; 19(5):
China	Subnational	No	Presenting	, severe	2010	2010	272-7.
			1				Li Y, Bi HS, Wang LH,
					1		Wang T, Yang SY, Liu LP, Zhou CC. Causes of
			1				moderate to severe visual
			1				impairment and blindness
			1				in population aged 50
				MSVI,	1		years or more in rural
			1	blind,			Shandong province. Chin
			1	moderate	2008,	2008,	J Ophthalmol. 2013;
China	Subnational	No	Both	, severe	2010	2012	49(2): 144-50.
Cnina	Subnational	NO	Both	, severe	2010	2012	49(2): 144-50.

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							Li Z, Cui H, Liu P,
							Zhang L, Yang H, Zhang
							L. Prevalence and causes
							of blindness and visual
							impairment among the
				MSVI,			elderly in rural southern
				blind,			Harbin, China.
				moderate			Ophthalmic Epidemiol.
China	Subnational	No	Presenting	, severe	2006	2007	2008; 15(5): 334-8.
							Liang YB, Friedman DS,
							Wong TY, Zhan SY, Sun
							LP, Wang JJ, Duan XR,
							Yang XH, Wang FH,
							Zhou Q, Wang NL.
							Prevalence and causes of
							low vision and blindness
							in a rural chinese adult
							population: the Handan
				blind,			Eye Study.
				moderate			Ophthalmology. 2008;
China	Subnational	No	Presenting	, severe	2006	2007	115(11): 1965-72.
							Lo WB, Fang QX, Zhou
							JH, Han JJ, Kuang JB,
							Zhou YF, Yao XL, Tang
							ZW, Chang Y, Lo B. The
							epidemiological survey
				MSVI,			of blindness and low
				blind,			vision in Sichuan
				moderate			Province, China. Eye Sci.
China	Subnational	Yes	Both	, severe	1986	1986	1987; 3(4): 223-6.
							Lu H, Guan HJ, Dai Z, Li
							M, Wang Y, Hu JY, Shi
							J, Zhao JL, Ellwein LB,
							Wang Y, Gao XC.
							[Prevalence of blindness
							and moderate and severe
							visual impairment among
							adults aged 50 years or
							above in Qidong City of
							Jiangsu Province: the
							China Nine-Province
			1	blind,			Survey]. Chin J
				moderate	2005	2005	Ophthalmol. 2012; 48(3):
China	Subnational	No	Both	, severe	2006	2006	205-10.
							Lu Q, Zheng Y, Sun B,
			1				Cui T, Congdon N, Hu A,
							Chen J, Shi J. A
			1				population-based study of
			1				visual impairment among
			1				pre-school children in
			1				Beijing: the Beijing study
				MCVI			of visual impairment in
			1	MSVI,			children. Am J
Chi	Carlana di 1	NT.	Due of the	blind,	2004	2004	Ophthalmol. 2009;
China	Subnational	No	Presenting	moderate	2004	2004	147(6): 1075-81.
			1	MSVI,			Tang Y, Wang X, Wang
			1	blind,			J, Huang W, Gao Y, Luo
				mild,			Y, Lu Y. Prevalence and
Chie-	C11h4:1	NT-	Dot1-	moderate	2012	2012	Causes of Visual
China	Subnational	No	Both	, severe	2012	2013	Impairment in a Chinese

			1	1		ı	
							Adult Population: The
							Taizhou Eye
							Study. Ophthalmology.
							2015; 122(7): 1480-8.
							Wang G-Q, Bai Z-X, Shi
							J, Luo S, Chang H-F, Sai
							X-Y. Prevalence and risk factors for eye diseases,
							blindness, and low vision
				blind,			in Lhasa, Tibet. Int J
			Best-	moderate			Ophthalmol. 2013; 6(2):
China	Subnational	No	corrected	, severe	2010	2010	237-41.
				,			Wang H, Zhang Y, Li Z,
							Wang T, Liu P.
							Prevalence and causes of
							corneal blindness. Clin
							Experiment Ophthalmol.
China	Subnational	No	Presenting	MSVI	2009	2009	2013.
							Wang L, Huang W, He
							M, Zheng Y, Huang S,
							Liu B, Jin L, Congdon
							NG, He M. Causes and
							five-year incidence of
							blindness and visual
							impairment in urban
							Southern China: the
				MSVI,			Liwan Eye Study. Invest Ophthalmol Vis Sci.
China	Subnational	No	Presenting	blind	2009	2009	2013; 54(6): 4117-21.
Cimia	Submutionar	110	Tresenting	omia	2007	2007	Wei M, Chen H, Fan Y-
							C, Pathai S. Prevalence
							and causes of visual
				MSVI,			impairment and blindness
				blind,			in Sichuan province of
			Best-	moderate	2000,	2000,	China. Int J Ophthalmol.
China	Subnational	No	corrected	, severe	2006	2006	2010; 3(1): 83-8.
							Wu M, Yip JLY, Kuper
							H. Rapid assessment of
				MSVI,			avoidable blindness in
				blind,			Kunming, China.
CI.		3.7	D .:	moderate	2006	2006	Ophthalmology. 2008;
China	Subnational	Yes	Presenting	, severe	2006	2006	115(6): 969-74.
							Xiao B, Kuper H, Guan
							C, Bailey K, Limburg H. Rapid assessment of
							avoidable blindness in
				MSVI,			three counties, Jiangxi
				blind,			Province, China. Br J
				moderate			Ophthalmol. 2010;
China	Subnational	Yes	Both	, severe	2007	2007	94(11): 1437-42.
							Xu J, Xu L, Du KF, Shao
							L, Chen CX, Zhou JQ,
							Wang YX, You QS,
							Jonas JB, Wei WB.
							Subfoveal choroidal
				MSVI,			thickness in diabetes and
				blind,			diabetic retinopathy
				mild,			[Unpublished data].
CL	G-1	N	D.4	moderate	2001	2001	Ophthalmology. 2013
China	Subnational	No	Both	, severe	2001	2001	Oct;120(10):2023-8.

							Xu J, Xu L, Du KF, Shao
							L, Chen CX, Zhou JQ,
							Wang YX, You QS,
							Jonas JB, Wei WB.
							Subfoveal choroidal
							thickness in diabetes and
							diabetic retinopathy
							[Unpublished
				blind,			data].
				moderate	2006,	2006,	Ophthalmology. 2013
China	Subnational	No	Presenting	, severe	2011	2011	Oct;120(10):2023-8.
							Xu L, Jonas JB, Cui TT,
							You QS, Wang YX,
							Yang H, Li JJ, Wei WB,
							Liang QF, Wang S, Yang
							XH, Zhang L, Beijing Institute of
							Ophthalmology, Beijing
							Tongren Hospital,
							Capital Medical
							University. Beijing Eye
				blind,			Public Health Care
				moderate			Project. Ophthalmology.
China	Subnational	No	Presenting	, severe	2008	2009	2012; 119(6): 1167-74.
							Yang M, Zhang JF, Zhu
							RR, Kang LH, Qin B,
							Guan HJ.
							Epidemiological survey
							of visual impairment in
				11. 1			Funing County,
				blind,			Jiangsu. Chin J
China	Subnational	NT-	D -41-	moderate	2010	2011	Ophthalmol. 2017; 53(7): 502-508.
China	Subhational	No	Both	, severe	2010	2011	You QS, Xu L, Wang
							YX, Liang QF, Cui TT,
							Yang XH, Yang H, Jonas
							JB. Prevalence of
							diabetic retinopathy as
							cause for visual
							impairment: the Beijing
							Public Health Care
							Project. Clin Experiment
							Ophthalmol. 2013;
China	Subnational	No	Presenting	MSVI	2008	2009	41(6.0): 608-9.
							Zhang G, Li Y, Teng X,
							Wu Q, Gong H, Ren F,
							Guo Y, Liu L, Zhang H. Prevalence and causes of
							low vision and blindness
							in Baotou: A cross-
							sectional study. Medicine
				MSVI,			(Baltimore). 2016;
China	Subnational	No	Both	blind	2013	2013	95(37): e4905.
							Zhang SY, Zou LH, Gao
							YQ, Di Y, Wang XD.
							National epidemiological
				MSVI,			survey of blindness and
				blind,			low vision in China. Chin
C1.				moderate	1987,	1987,	Med J (Engl). 1992;
China	Subnational	No	Both	, severe	1998	1998	105(7): 603-8.

	1	1	ı	1	1	1	
							Zhang X, Li EY, Leung
							CK, Musch DC, Tang X,
							Zheng C, He M, Chang
							DF, Lam DS. Prevalence
							of visual impairment and
				1,11,4			outcomes of cataract
				blind, moderate			surgery in Chaonan, South China. PLoS One.
China	Subnational	Vac	Presenting	, severe	2012	2012	2017; 12(8): e0180769.
Cillia	Subliational	Yes	Fresenting	, severe	2012	2012	Zhang Y, Wang H, Liu J,
							Wang T, Cao S, Zhou D,
							Du L, Li Z, Liu P.
							Prevalence of blindness
							and low vision: a study in
				MSVI,			the rural Heilongjiang
				blind,			Province of China. Clin
				moderate			Experiment Ophthalmol.
China	Subnational	No	Both	, severe	2008	2009	2012; 40(5): 484-9.
							Zhao J, Ellwein LB, Cui
							H, Ge J, Guan H, Lv J,
							Ma X, Yin J, Yin ZQ,
							Yuan Y, Liu H.
							Prevalence of vision
							impairment in older
							adults in rural China: the
				blind,			China Nine-Province
				moderate			Survey. Ophthalmology.
China	Subnational	No	Presenting	, severe	2006	2007	2010; 117(3): 409-16.
							Zhao J, Xu X, Ellwein
							LB, Guan H, He M, Liu
							P, Lv J, Sheng X, Yang
							P, Yi J, Cai N, Yang M,
							Chen M, Deng L, Ding
							X, Du L, Li F, Liu X, Lu
							H, Shao C, Wang J, Zhuang W, An L. Causes
							of Visual Impairment and
				MSVI,			Blindness in the 2006 and
				blind,			2014 Nine-Province
				mild,			Surveys in Rural
				moderate	2006,	2007,	China. Am J Ophthalmol.
China	Subnational	No	Both	, severe	2014	2014	2019; 197: 80-87.
							Zhu M, Tong X, Zhao R,
							He X, Zhao H, Liu M,
							Zhu J. Visual impairment
							and spectacle coverage
				blind,			rate in Baoshan district,
				mild,			China: population-based
				moderate			study. BMC Public
China	Subnational	No	Presenting	, severe	2009	2009	Health. 2013; 13(1): 311.
							Zhu RR, Shi J, Yang M,
							Guan HJ. Prevalences
							and causes of vision
							impairment in elderly
							Chinese: a
				hite J			socioeconomic
				blind,			perspective of a
China	Submatic = -1	Νīα	Doth	moderate	2010	2011	comparative report nested
China	Subnational	No	Both	, severe	2010	2011	in Jiangsu Eye Study. Int

	-	1	ı	1		1	10.14.1.1.2016.0(7)
							J Ophthalmol. 2016; 9(7): 1051-6.
Congo	National	No	Best-corrected	blind, moderate , severe	1988	1988	World Health Organization (WHO). Blindness prevention: prevalence and causes of blindness and visual loss. Wkly Epidemiol Rec. 1990: 65(33): 249-51.
C + P		V	D. d.	MSVI, blind, mild, moderate	2015	2015	International Centre for Eye Health (ICEH). Costa Rica Rapid Assessment of Avoidable Blindness Survey 2015. Grootebroek, Netherlands: RAAB
Costa Rica	National	Yes	Both	, severe	2015	2015	Repository, 2018. Hernández Silva JR, Río
Cuba	Subnational	yes	Presenting	MSVI, blind, moderate , severe	2004, 2005	2005	Torres M, Padilla González CM. Resultados del RACSS en Ciudad de La Habana, Cuba, 2005. <i>Rev Cubana</i> <i>Oftalmol</i> . 2006; 19(1): 0- 0.
							International Centre for Eye Health (ICEH).
Democratic Republic of				MSVI, blind, moderate			Democratic Republic of Congo - Orientale Rapid Assessment of Avoidable Blindness 2015. Grootebroek, Netherlands: RAAB
the Congo	Subnational	Yes	Both	, severe	2015	2015	Repository. Buch H, Vinding T, La
Denmark	Subnational	No	Both	blind, moderate	1991	1994	Cour M, Appleyard M, Jensen GB, Nielsen NV. Prevalence and causes of visual impairment and blindness among 9980 Scandinavian adults: the Copenhagen City Eye Study. Ophthalmology. 2004; 111(1): 53-61.
				MSVI, moderate			Buch H, Vinding T, Nielsen NV. Prevalence and causes of visual impairment according to World Health Organization and United States criteria in an aged, urban Scandinavian population: the Copenhagen City Eye Study. Ophthalmology.
Denmark	Subnational	No	Both	, severe MSVI,	1986	1988	2001; 108(12): 2347-57. International Centre for
Dominican Republic	National	Yes	Both	blind, moderate , severe	2008	2008	Eye Health (ICEH). Dominican Republic Rapid Assessment for

			1	1			A: d-1-1 - D1: d
							Avoidable Blindness Survey 2008.
							Ecuador Rapid
							Assessment for
							Avoidable Blindness
				MSVI,			Survey 2009.
Ecuador	National	No	Presenting	blind	2009	2009	[Unpublished].
			8				International Centre for
							Eye Health (ICEH).
							Ecuador Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2008-2009.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Ecuador	National	Yes	Both	, severe	2008	2009	Repository.
							El-Bayoumy BM, Saad
							A, Choudhury AH.
							Prevalence of refractive
							error and low vision
				1.151			among schoolchildren in
			D4	blind,			Cairo. East Mediterr
Egypt	Subnational	No	Best- corrected	moderate	1994	1994	Health J. 2007; 13(3): 575-9.
Egypt	Subliational	INO	corrected	, severe	1994	1994	Fouad D, Mousa A,
							Courtright P.
							Sociodemographic
							characteristics associated
							with blindness in a Nile
				blind,			Delta governorate of
				moderate			Egypt. Br J Ophthalmol.
Egypt	Subnational	No	Presenting	, severe	2001	2002	2004; 88(5): 614-8.
							Mousa A, Courtright P,
							Kazanjian A, Bassett K.
							Prevalence of visual
							impairment and blindness
				1.111			in Upper Egypt: a
				blind, moderate			gender-based perspective.
Egypt	Subnational	No	Presenting		2007	2008	Ophthalmic Epidemiol. 2014; 21(3.0): 190-6.
Egypt	Subliational	INO	Fresenting	, severe	2007	2008	International Centre for
				MSVI,			Eye Health (ICEH). El
				blind,			Salvador Rapid
				moderate			Assessment of Avoidable
El Salvador	National	Yes	Both	, severe	2011	2011	Blindness 2011.
				, , , , , , , , , , , , , , , , , , , ,			International Centre for
							Eye Health (ICEH),
							Ministry of Health
			1	MSVI,			(Eritrea). Eritrea Rapid
			1	blind,			Assessment for
				moderate			Avoidable Blindness
Eritrea	National	Yes	Both	, severe	2008	2008	Survey 2008.
							Seland JH, Vingerling
							JR, Augood CA,
Estonia,			1				Bentham G,
France,							Chakravarthy U, deJong
Greece,			1				PTVM, Rahu M,
Italy,				1.101			Soubrane G, Tomazzoli
Norway,			Doct.	blind,			L, Topouzis F, Fletcher
United	Subnational	No	Best-	moderate	2006	2007	AE. Visual impairment
Kingdom	Subnational	No	corrected	, severe	2000	2007	and quality of life in the

		1	I	1			11 5
							older European population, the EUREYE
							study. Acta Ophthalmol.
							2011; 89(7): 608-13.
							Addis Ababa University,
							Ethiopian Public Health
							Association, Johns
							Hopkins University,
							Ministry of Health
							(Ethiopia). Ethiopia
				MCVI			National Blindness and
Ethiopia	National	No	Presenting	MSVI, blind	2005	2006	Low Vision Survey 2005-2006.
Еппоріа	National	INO	Tresenting	Ulliu	2003	2000	Berhane Y, Worku A,
							Bejiga A, Adamu L,
							Alemayehu W, Bedri A,
							Haile Z, Ayalew A,
							Adamu Y, Gebre T,
							Kebede TD, West E,
							West S. Prevalence and
							causes of blindness and
				MSVI,			Low Vision in Ethiopia. Ethiop J Health Dev.
Ethiopia	National	No	Presenting	blind	2005	2006	2008; 21(3): 204-10.
•							Cerulli L, Cedrone C,
							Assefa C, Scuderi GL.
							Assessment of visual
							status of the population in
							seven regions of Ethiopia. Rev Int Trach
				blind,			Pathol Ocul Trop Subtrop
				moderate			Sante Publique. 1984; 2-
Ethiopia	Subnational	No	Presenting	, severe	1981	1982	4: 127-42.
							Kedir J, Girma A.
							Prevalence of refractive
							error and visual
							impairment among rural
							school-age children of Goro District, Gurage
				blind,			Zone, Ethiopia. Ethiop J
				moderate			Health Sci. 2014; 24(4):
Ethiopia	Subnational	No	Both	, severe	2009	2009	353-8.
							Mehari ZA, Yimer AW.
							Prevalence of refractive
							errors among
				blind,			schoolchildren in rural central Ethiopia. Clin
				moderate			Exp Optom. 2013; 96(1):
Ethiopia	Subnational	No	Presenting	, severe	2010	2011	65-9.
•			3				Melese M, Alemayehu
							W, Bayu S, Girma T,
							Hailesellasie T,
							Khandekar R, Worku A,
							Courtright P. Low vision and blindness in adults in
							Gurage Zone, central
				blind,			Ethiopia. Br J
				moderate			Ophthalmol. 2003; 87(6):
Ethiopia	Subnational	No	Presenting	, severe	1998	1998	677-80.

		ı	1	T	1	1	
							Zerihun N, Mabey D.
							Blindness and low vision
							in Jimma Zone, Ethopia:
							results of a population-
				MSVI,			based survey.
				blind,			Ophthalmic Epidemiol.
Ethiopia	Subnational	No	Presenting	moderate	1994	1995	1997; 4(1): 19-26.
							Brian G, Ramke J, Szetu
							J, Qoqonokana MQ.
				MSVI,			Cataract and its surgery
				blind,			in Fiji. Clin Experiment
				moderate			Ophthalmol. 2011; 39(5):
Fiji	Subnational	No	Presenting	, severe	2009	2009	449-55.
							Cama AT, Sikivou BT,
							Keeffe JE. Childhood
				blind,			visual impairment in Fiji.
	37 J 1	3.7	Best-	moderate	2006	2005	Arch Ophthalmol. 2010;
Fiji	National	No	corrected	, severe	2006	2007	128(5): 608-12.
							Faal H, Minassian D,
							Sowa S, Foster A.
							National survey of
							blindness and low vision
				blind,	1006	1006	in The Gambia: results.
G 1:	37 J 1	3.7		moderate	1986,	1986,	Br J Ophthalmol. 1989;
Gambia	National	No	Presenting	, severe	1996	1996	73(2): 82-7.
							Faal H, Minassian DC,
							Dolin PJ, Mohamed AA,
							Ajewole J, Johnson GJ.
				MCM			Evaluation of a national
				MSVI, blind,			eye care programme: re-
				moderate			survey after 10 years. Br
Gambia	National	No	Presenting		1996	1996	J Ophthalmol. 2000;
Gaillola	National	INO	Tresenting	, severe	1990	1990	84(9): 948-51. International Centre for
				MSVI,			Eye Health (ICEH).
				blind,			Gambia Rapid
				moderate			Assessment of Avoidable
Gambia	National	Yes	Both	, severe	2007	2007	Blindness 2007.
Guinoia	Tuttonur	105	Both	, severe	2007	2007	Budenz DL, Bandi JR,
							Barton K, Nolan W,
							Herndon L, Whiteside-de
							Vos J, Hay-Smith G, Kim
							H, Tielsch J. Blindness
							and Visual Impairment in
							an Urban West African
				blind,			Population: The Tema
				mild,			Eye Survey.
				moderate	2006,	2008,	Ophthalmology. 2012;
Ghana	Subnational	No	Both	, severe	2009	2011	119(9): 1744-53.
							International Centre for
							Eye Health (ICEH).
							Guatemala - Four
							Departments Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2004.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Guatemala	Subnational	Yes	Both	, severe	2004	2004	Repository.
				MSVI,			International Centre for
Guatemala	National	Yes	Both	blind,	2015	2015	Eye Health (ICEH).

			1	1 .			G . 1 B .1
				moderate			Guatemala Rapid
				, severe			Assessment of Avoidable
							Blindness 2015.
							Grootebroek,
							Netherlands: RAAB
							Repository.
							International Centre for
							Eye Health (ICEH).
							Guinea-Bissau Rapid
				MCVI			Assessment of Avoidable Blindness 2010.
				MSVI,			
Guinea-				blind, moderate			Grootebroek, Netherlands: RAAB
Bissau	National	Yes	Both	, severe	2010	2010	Repository.
Dissau	National	168	Boui	, severe	2010	2010	Tousignant B, Brûlé J.
							Prevalence of eye disease
							and visual impairment in
							Île de la Gonave,
				moderate			Haïti. Med Sante Trop.
Haiti	Subnational	No	Presenting	, severe	2013	2013	2017; 27(3): 326-328.
114111	Sasnanonai	110	1 1030IIIIIIg	, 50 1010	2013	2013	Alvarado D, Rivera B,
							Lagos L, Ochoa M,
							Starkman I, Castillo M, et
							al. Encuesta nacional de
							ceguera y deficiencia
							visual evitables en
							Honduras [Honduras
							national survey of
							blindness and avoidable
							visual impairments]. Rev
				MSVI,			Panam Salud Publica.
Honduras	National	Yes	Presenting	blind	2013	2013	2014; 36(5): 300-5.
							International Centre for
				MSVI,			Eye Health (ICEH).
				blind,			Honduras Rapid
			_	moderate			Assessment of Avoidable
Honduras	National	Yes	Both	, severe	2013	2013	Blindness 2013.
							International Centre for
							Eye Health (ICEH).
				MONT			Hungary Rapid
				MSVI,			Assessment of Avoidable
				blind,			Blindness 2015.
				mild,			Grootebroek, Netherlands: RAAB
Ципанти	National	Yes	Both	moderate	2014	2015	Repository.
Hungary	inauoiiai	1 68	Don	, severe	2014	2013	Gunnlaugsdottir E,
							Arnarsson A, Jonasson F.
							Prevalence and causes of
					1		visual impairment and
							blindness in Icelanders
				MSVI,	1		aged 50 years and older:
				blind,	1		the Reykjavik Eye Study.
				moderate			Acta Ophthalmol. 2008;
Iceland	Subnational	No	Both	, severe	1996	1996	86(7): 778-85.
							All India Institute of
							Medical Sciences, New
				MSVI,			Delhi (AIIMS). India
				blind,			Multi-centric
				moderate	1		Collaborative Study on
India	Subnational	Yes	Presenting	, severe	2013	2015	the Impact of Global

			1	1	1	1	177
							Warming and Ultra
							Violet Radiation
							Exposure on Ocular
					1		Health in India 2013- 2015.
	+						Bettadapura GS, Donthi
							K, Datti NP, Ranganath
							BG, Ramaswamy SB,
							Jayaram TS. Assessment
							of avoidable blindness
							using the rapid
				MSVI,			assessment of avoidable
				blind,			blindness methodology.
				moderate			N Am J Med Sci. 2012;
India	Subnational	Yes	Presenting	, severe	2011	2011	4(9): 389-93.
							Dandona L, Dandona R,
							Naduvilath TJ, McCarty
							CA, Srinivas M, Mandal
							P, Nanda A, Rao GN.
					1		Burden of moderate
					1		visual impairment in an urban population in
							southern India.
				moderate			Ophthalmology. 1999;
India	Subnational	No	Presenting	, severe	1996	1997	106(3): 497-504.
							Dhake PV, Dole K,
							Khandekar R, Deshpande
							M. Prevalence and causes
							of avoidable blindness
							and severe visual
							impairment in a tribal
				blind,			district of Maharashtra, India. Oman J
				moderate			Ophthalmol. 2011; 4(3):
India	Subnational	Yes	Presenting	, severe	2009	2009	129-34.
							Govekar PK, Sharma
							KM. Blindness and
							Visual Impairment in
				blind,			Delhi Region. Natl J
				moderate			Community Med. 5(4):
India	Subnational	Yes	Presenting	, severe	2013	2013	370-372.
							International Centre for Eye Health (ICEH). India
							- Chitrakoot Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2008.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
India	Subnational	Yes	Both	, severe	2008	2008	Repository.
							International Centre for
				MSVI,			Eye Health (ICEH). India
				blind,			- Surat Rapid Assessment
India	Subnational	Yes	Presenting	moderate	2011	2011	of Avoidable Blindness 2011.
IIIUIA	Suomanoman	1 68	1 reseming	, severe	2011	2011	Jonas JB, Nangia V,
							Gupta R, Bhojwani K,
							Nangia P, Panda-Jonas S.
							Prevalence of myopic
				MSVI,			retinopathy in rural
India	Subnational	Yes	Presenting	blind	2014	2016	Central India. Acta

	1		1	1			Ophthalmol. 2017; 95(5):
							e399-e404.
							Kalikivayi V, Naduvilath
							TJ, Bansal AK, Dandona
							L. Visual impairment in
				blind,			school children in
				mild,			southern India. Indian J
				moderate	4000	400-	Ophthalmol. 1997; 45(2):
India	Subnational	No	Presenting	, severe	1993	1995	129-34.
							Krishnaiah S, Das T, Nirmalan PK, Nutheti R,
							Shamanna BR, Rao GN,
							Thomas R. Risk factors
							for age-related macular
							degeneration: findings
							from the Andhra Pradesh
							eye disease study in
				blind,			South India. Invest
T 1'		3.7	D .:	moderate	1006	2000	Ophthalmol Vis Sci.
India	Subnational	No	Presenting	, severe	1996	2000	2005; 46(12): 4442-9.
							Limburg H, Kumar R. Follow-up study of
							blindness attributed to
							cataract in Karnataka
							State, India. Ophthalmic
				MSVI,			Epidemiol. 1998; 5(4):
India	Subnational	Yes	Both	blind	1995	1995	211-23.
							Malhotra S, Vashist P,
							Gupta N, Kalaivani M,
							Rath R, Gupta SK. Prevalence and causes of
							visual impairment among
							adults aged 15-49 years
							in a rural area of north
				blind,			India - A population-
				mild,			based study. Indian J
T 11				moderate	2014	2014	Ophthalmol. 2018; 66(7):
India	Subnational	Yes	Presenting	, severe	2014	2014	951-956. Malhotra S, Vashist P,
							Kalaivani M, Gupta N,
							Senjam SS, Rath R,
							Gupta SK. Prevalence
							and causes of visual
							impairment amongst
							older adults in a rural
				1.101			area of North India: a
				blind, moderate			cross-sectional study. BMJ Open. 2018; 8(3):
India	Subnational	Yes	Presenting	, severe	2014	2014	e018894.
		2.00	11001111115	, 23, 210			Murthy GVS, Gupta SK,
							Bachani D, Jose R, John
							N, National Programme
							for Control of Blindness
				MCVT			(India). Current estimates
				MSVI, blind,			of blindness in India [Unpublished data]. Br J
				moderate			Ophthalmol. 2005; 89(3):
India	Subnational	No	Both	, severe	1999	2001	257-60.
L							ı

-	1	ı				I	Lit it organization
							Murthy GVS, Gupta SK, Bachani D, Jose R, John N. Current estimates of
				blind,			blindness in India. Br J
	37	3.7	Best-	moderate	1000	2001	Ophthalmol. 2005; 89(3):
India	National	No	corrected	, severe	1999	2001	257-60. Nangia V, Jonas JB,
							Kulkarni M, Matin A.
							Prevalence of age-related
							macular degeneration in rural central India: the
							Central India Eye and
				MSVI,			Medical Study. Retina.
India	Subnational	No	Presenting	blind	2006	2008	2011; 31(6): 1179-85.
							Nangia V, Jonas JB, Sinha A, Bhojwani K,
							Matin A. Visual
							impairment among
							school children in urban
							Central India: The Central India Children
				blind,			Eye Study. Acta
				moderate			Ophthalmol (Copenh).
India	Subnational	No	Presenting	, severe	2006	2008	2012; 90(4): e329-e331. Nangia V, Jonas JB,
							Sinha A, Matin A,
							Kulkarni M, Panda-Jonas
							S. Ocular axial length
							and its associations in an adult population of
							Central Rural India. The
							Central India Eye and
							Medical Study [Unpublished data].
				blind,			Ophthalmology
				moderate			2010;117(7):1360-
India	Subnational	No	Presenting	, severe	2006	2008	6.
							Neena J, Rachel J, Praveen V, Murthy GVS.
							Rapid Assessment of
				MSVI,			Avoidable Blindness in
				blind,			India [Unpublished data].
India	Subnational	Yes	Presenting	moderate , severe	2007	2007	PLoS One. 2008; 3(8): e2867.
			5	,			Neena J, Rachel J,
							Praveen V, Murthy GVS.
							Rapid Assessment of Avoidable Blindness in
				MSVI,			India. PLoS One. 2008;
India	National	Yes	Presenting	blind	2007	2007	3(8): e2867.
							Patil S, Gogate P, Vora S,
							Ainapure S, Hingane RN, Kulkarni AN,
							Shammanna BR.
							Prevalence, causes of
							blindness, visual impairment and cataract
				blind,			surgical services in
				moderate	2010,	2010,	Sindhudurg district on
India	Subnational	No	Both	, severe	2012	2012	the western coastal strip

			I	1		1	CI. I'. I. I'. I
							of India. Indian J
							Ophthalmol. 2014; 62(2): 240-245.
							Ramakrishnan R,
							Nirmalan PK, Krishnadas
							R, Thulasiraj RD, Tielsch
							JM, Katz J, Friedman
							DS, Robin AL.
							Glaucoma in a rural
							population of southern
							India: the Aravind
							comprehensive eye
				MSVI,			survey. Ophthalmology.
India	Subnational	No	Presenting	blind	1995	1997	2003; 110(8): 1484-90.
							Rustagi N, Uppal Y,
							Taneja DK. Screening for
							visual impairment:
							outcome among
							schoolchildren in a rural
			D	blind,			area of Delhi. Indian J
To die	C1	NI.	Best-	moderate	2000	2011	Ophthalmol. 2012; 60(3):
India	Subnational	No	corrected	, severe	2009	2011	203-6. Singh N, Eeda SS,
							Gudapati BK, Reddy S,
							Kanade P, Shantha GPS,
							Rani PK, Chakrabarti S,
							Khanna RC. Prevalence
							and causes of blindness
							and visual impairment
							and their associated risk
							factors, in three tribal
				blind,		2011	areas of Andhra Pradesh,
T 1'	G 1 4: 1	3.7	D .:	moderate	2011	2011,	India. PLoS One. 2014;
India	Subnational	Yes	Presenting	, severe	2011	2013	9(7): e100644. Thulasiraj RD, Nirmalan
							PK, Ramakrishnan R,
							Krishnadas R,
							Manimekalai TK,
							Baburajan NP, Katz J,
							Tielsch JM, Robin AL.
							Blindness and vision
							impairment in a rural
							south Indian population:
							the Aravind
				blind,			Comprehensive Eye
				moderate	100-	100-	Survey. Ophthalmology.
India	Subnational	No	Both	, severe	1995	1997	2003; 110(8): 1491-8.
							Vijaya L, George R,
							Asokan R, Velumuri L, Ramesh SV. Prevalence
							and causes of low vision
							and blindness in an urban
				blind,			population: The Chennai
				moderate			Glaucoma Study. Indian J
India	Subnational	No	Presenting	, severe	2002	2004	Ophthalmol. 2014.
			8	MSVI,	1		International Centre for
				blind,			Eye Health (ICEH).
				moderate			Indonesia - East
Indonesia	Subnational	Yes	Presenting	, severe	2006	2006	Kalimantan Rapid

	I	1	1	1			A
							Assessment of Avoidable Blindness 2006.
							Saw S-M, Husain R,
							Gazzard GM, Koh D,
							Widjaja D, Tan DTH.
							Causes of low vision and
				MSVI,			blindness in rural
				blind,			Indonesia. Br J
				moderate			Ophthalmol. 2003; 87(9):
Indonesia	Subnational	No	Presenting	, severe	2001	2002	1075-8.
muonesia	Subhational	110	Tresenting	, severe	2001	2002	Emamian MH, Zeraati H,
							Majdzadeh R, Shariati M,
							Hashemi H, Fotouhi A.
							The gap of visual
							impairment between
							economic groups in
							Shahroud, Iran: a
							Blinder-Oaxaca
				blind,			decomposition. Am J
Iran (Islamic				moderate			Epidemiol. 2011;
Republic of)	Subnational	No	Presenting	, severe	2008	2009	173(12): 1463-7.
			8	,			Feghhi M, Khataminia G,
							Ziaei H, Latifi M.
							Prevalence and causes of
							blindness and low vision
				blind,			in Khuzestan province,
Iran (Islamic			Best-	moderate			Iran. J Ophthalmic Vis
Republic of)	Subnational	No	corrected	, severe	2006	2006	Res. 2009; 4(1): 29-34.
							Fotouhi A, Hashemi H,
							Mohammad K, Jalali KH.
							The prevalence and
							causes of visual
							impairment in Tehran:
				blind,			the Tehran Eye Study. Br
Iran (Islamic	G 1 .: 1	> T	D 4:	moderate	2002	2002	J Ophthalmol. 2004;
Republic of)	Subnational	No	Presenting	, severe	2002	2002	88(6): 740-5.
							Hashemi H,
							Khabazkhoob M,
							Emamian MH, Shariati M, Fotouhi A. Visual
							impairment in the 40- to
							64-year-old population of
				blind,			Shahroud, Iran. Eye
Iran (Islamic				moderate			(Lond). 2012; 26(8):
Republic of)	Subnational	No	Presenting	, severe	2009	2010	1071-7.
1115 40110 01)	2 mo zimeronur	1,0	11350mmg	, 23, 210			Hashemi H,
					1		Khabazkhoob M, Saatchi
							M, Ostadimoghaddam H,
							Yekta A. Visual
					1		impairment and blindness
							in a population-based
				blind,			study of Mashhad, Iran. J
Iran (Islamic				moderate			Curr Ophthalmol. 2018;
Republic of)	Subnational	No	Both	, severe	2008	2008	30(2): 161-8.
					1		International Centre for
							Eye Health (ICEH). Iran
				MSVI,	1		- Kordestan Rapid
				blind,	1		Assessment of Avoidable
Iran (Islamic		1,	D 4	moderate	2017	2011	Blindness 2014.
Republic of)	Subnational	Yes	Both	, severe	2014	2014	Grootebroek,

	1			1	1	1	DIA L L DAAD
							Netherlands: RAAB Repository.
							International Centre for
							Eye Health (ICEH). Iran
							- Varamin Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2009.
				blind,			Grootebroek,
Iran (Islamic				moderate			Netherlands: RAAB
Republic of)	Subnational	Yes	Presenting	, severe	2009	2009	Repository.
							Katibeh M, Behboudi H,
							Moradian S, Alizadeh Y,
							Beiranvand R, Sabbaghi
							H, Ahmadieh H. Rapid
							Assessment of Avoidable
							Blindness and Diabetic
							Retinopathy in Gilan Province,
				blind,			Iran. Ophthalmic
Iran (Islamic				moderate			Epidemiol. 2017; 24(6):
Republic of)	Subnational	Yes	Presenting	, severe	2009	2009	381-387.
republic of)	Subhational	103	Tresenting	, severe	2007	2007	Shahriari H-A, Izadi S,
							Rouhani M-R,
							Ghasemzadeh F, Maleki
							A-R. Prevalence and
							causes of visual
							impairment and blindness
							in Sistan-va-Baluchestan
							Province, Iran: Zahedan
				blind,			Eye Study. Br J
Iran (Islamic			Best-	moderate	• • • •		Ophthalmol. 2007; 91(5):
Republic of)	Subnational	No	corrected	, severe	2004	2005	579-84.
							Thomson IM, Chumbley
				blind,			LC. Eye disease in the West Bank and Gaza
				moderate			Strip. Br J Ophthalmol.
Israel	Subnational	No	Presenting	, severe	1982	1983	1984; 68(8): 598-602.
Islaci	Subliational	110	Trescriting	, severe	1962	1703	Cedrone C, Nucci C,
							Scuderi G, Ricci F,
							Cerulli A, Culasso F.
							Prevalence of blindness
							and low vision in an
				MSVI,			Italian population: a
				blind,			comparison with other
				mild,			European studies. Eye
				moderate			(Lond). 2006; 20(6): 661-
Italy	Subnational	No	Presenting	, severe	2000	2000	7.
					1		Cedrone C, Ricci F,
			1				Nucci C, Cesareo M,
			1				MacrìG, Culasso F.
			1				Age-specific changes in
					1		the prevalence of best- corrected visual
			1	MSVI,			impairment in an Italian
				blind,			population. Ophthalmic
			Best-	moderate	1988,	1988,	Epidemiol. 2007; 14(5):
Italy	Subnational	No	corrected	, severe	2000	2000	320-6.
			1			1	Rabiu MM, Al Bdour
				MSVI,	1		MD, Abu Ameerh MA,
Jordan	National	Yes	Both	blind,	2012	2012	Jadoon MZ. Prevalence
	_	_	_				

		1	1	1 1 ,	1	1	C11: 1 1 1: 1 .:
				moderate			of blindness and diabetic
				, severe			retinopathy in northern
							Jordan. Eur J
							Ophthalmol. 2015; 25(4):
		-					320-7.
							International Centre for
							Eye Health (ICEH).
							Kenya - Embu Rapid
				MONT			Assessment of Avoidable
				MSVI,			Blindness 2007.
				blind,			Grootebroek,
V	C14:1	V	D	moderate	2007	2007	Netherlands: RAAB
Kenya	Subnational	Yes	Presenting	, severe	2007	2007	Repository.
							International Centre for
							Eye Health (ICEH).
							Kenya - Kericho Rapid Assessment of Avoidable
				MSVI,			Blindness 2007.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Kenya	Subnational	Yes	Both	, severe	2007	2007	Repository.
Kenya	Suomationai	103	Dom	, severe	2007	2007	International Centre for
							Eye Health (ICEH).
							Kenya - Kwale Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2011.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Kenya	Subnational	Yes	Both	, severe	2011	2011	Repository.
				,			International Centre for
							Eye Health (ICEH).
							Kenya - Nakuru Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2005.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Kenya	Subnational	Yes	Both	, severe	2005	2005	Repository.
							Ndegwa LK, Karimurio
							J, Okelo RO, Adala HS.
							Prevalence of visual
				MSVI,			impairment and blindness
				blind,			in a Nairobi urban
				moderate			population. East Afr Med
Kenya	Subnational	No	Presenting	, severe	2002	2003	J. 2006; 83(4): 69-72.
							Schwab L, Steinkuller
			1				PG. Visual disability and
							blindness secondary to
			1	1 107 77			refractive errors in
17	N:	.,		MSVI,	1076	1001	Africa. Soc Sci Med.
Kenya	National	No	Presenting	blind	1976	1981	1983; 17(22): 1751-4.
							Whitfield R, Schwab L,
			1				Ross-Degnan D,
							Steinkuller P, Swartwood
			1				J. Blindness and eye
			1				disease in Kenya: ocular
							status survey results from the Kenya Rural
			1				Blindness Prevention
			1	MSVI,			Project. Br J Ophthalmol.
Kenya	National	No	Presenting	blind	1987	1988	1990; 74(6): 333-40.
ixenya	ranonai	INO	riesenning	omid	170/	1700	1990, /4(0). 333-40.

	1		1	1		1	T
							International Centre for Eye Health (ICEH).
							Kyrgyzstan - Batken,
							Jalal Abad, and Osh Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			Survey 2017.
				mild,			Grootebroek,
				moderate			Netherlands: RAAB
Kyrgyzstan	Subnational	Yes	Both	, severe	2017	2017	Repository, 2017.
							Casson RJ, Kahawita S,
							Kong A, Muecke J,
							Sisaleumsak S,
							Visonnavong V.
							Exceptionally low
							prevalence of refractive
							error and visual
							impairment in
							schoolchildren from Lao People's Democratic
Lao People's				blind,			Republic.
Democratic				moderate			Ophthalmology. 2012;
Republic	Subnational	No	Presenting	, severe	2009	2009	119(10): 2021-7.
1		- · -		,			International Centre for
							Eye Health (ICEH). Laos
							Rapid Assessment of
							Avoidable Blindness
				MSVI,			Survey 2007.
Lao People's				blind,			Grootebroek,
Democratic	NT.4'1	37	D. 4	moderate	2007	2007	Netherlands: RAAB
Republic	National	Yes	Both	, severe	2007	2007	Repository, 2017.
							Mansour AM, Kassak K, Chaya M, Hourani T,
							Sibai A, Alameddine
							MN. National survey of
							blindness and low vision
				blind,			in Lebanon. Br J
				moderate			Ophthalmol. 1997;
Lebanon	National	No	Presenting	, severe	1995	1995	81(10): 905-6.
							Rabiu MM, Jenf M,
							Fituri S, Choudhury A,
							Agbabiaka I, Mousa A. Prevalence and causes of
							visual impairment and
							blindness, cataract
							surgical coverage and
				MSVI,			outcomes of cataract
				blind,			surgery in Libya.
				moderate			Ophthalmic Epidemiol.
Libya	National	No	Presenting	, severe	2010	2010	2013; 20(1): 26-32.
							International Centre for
							Eye Health (ICEH).
							Madagascar - Atsinanana Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			2011. Grootebroek,
				moderate			Netherlands: RAAB
Madagascar	Subnational	Yes	Both	, severe	2011	2011	Repository.
				MSVI,			Randrianaivo JB, Anholt
Madagascar	Subnational	No	Presenting	blind	2010	2010	RM, Tendrisoa DL,

			1		1	1	116
							Margiano NJ, Courtright
							P3, Lewallen S.
							Blindness and cataract
							surgical services in
							Atsinanana region,
							Madagascar. Middle East
							Afr J Ophthalmol. 2014;
							21(2): 153-7.
							Chirambo MC, Tielsch
							JM, West KP Jr, Katz J,
							Tizazu T, Schwab L,
							Johnson G, Swartwood J,
							Taylor HR, Sommer A.
							Blindness and visual
							impairment in southern
				blind,			Malawi. Bull World
				moderate			Health Organ. 1986;
Malawi	Subnational	No	Both		1983	1983	64(4): 567-72.
Malawi	Subliational	INO	Бош	, severe	1903	1903	International Centre for
							Eye Health (ICEH).
							Malawi - Southern
							Region Rapid
				1.65.			Assessment of Avoidable
				MSVI,			Blindness 2009-2010.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Malawi	Subnational	Yes	Both	, severe	2009	2010	Repository.
							Kalua K, Lindfield R,
							Mtupanyama M,
							Mtumodzi D, Msiska V.
							Findings from a rapid
							assessment of avoidable
				blind,			blindness (RAAB) in
				moderate			Southern Malawi. PLoS
Malawi	Subnational	Yes	Presenting	, severe	2009	2010	One. 2011; 6(4): e19226.
							Goh P-P, Abqariyah Y,
							Pokharel GP, Ellwein
							LB. Refractive error and
							visual impairment in
							school-age children in
				blind,			Gombak District,
				mild,			Malaysia.
				moderate			Ophthalmology. 2005;
Malaysia	Subnational	No	Presenting	, severe	2003	2003	112(4): 678-85.
		1		, _ ,			International Centre for
							Eye Health (ICEH).
							Malaysia - Kelantan,
							Terengganu, and Pahang
							Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			Survey 2014.
				mild,			Grootebroek,
				mild, moderate			Netherlands: RAAB
Moleveis	Subnational	Vac	Roth		2014	2014	
Malaysia	Subnational	Yes	Both	, severe	2014	2014	Repository, 2014.
				MCVI			International Centre for
				MSVI,			Eye Health (ICEH).
				blind,			Malaysia - Sabah Rapid
				mild,			Assessment of Avoidable
			D. d	moderate	2014	2014	Blindness Survey 2014.
Malaysia	Subnational	Yes	Both	, severe	2014	2014	Grootebroek,

	ı	1	1	1			N. d. I. I. DAAD
							Netherlands: RAAB
							Repository, 2014. International Centre for
							Eye Health (ICEH).
							Malaysia - Sarawak
				MCVI			Rapid Assessment of Avoidable Blindness
				MSVI,			
				blind,			Survey 2014.
				mild, moderate			Grootebroek, Netherlands: RAAB
Malariaia	Cubactional	Vac	Doth		2014	2014	
Malaysia	Subnational	Yes	Both	, severe	2014	2014	Repository, 2014.
							Reddy SC, Rampal L, Nurulaini O. Prevalence
							and causes of visual
							impairment and blindness in a rural population in
				blind,			Sepang district, Selangor.
				moderate			Med J Malaysia. 2004;
Malaysia	Subnational	No	Presenting		2000	2000	59(2): 212-7.
Malaysia	Subliational	INO	Tresenting	, severe	2000	2000	Zainal M, Ismail SM,
							Ropilah AR, Elias H,
							Arumugam G, Alias D,
							Fathilah J, Lim TO, Ding
							LM, Goh PP. Prevalence
							of blindness and low
							vision in Malaysian
				MSVI,			population: results from
				blind,			the National Eye Survey
				moderate			1996. Br J Ophthalmol.
Malaysia	National	No	Presenting	, severe	1996	1997	2002; 86(9): 951-6.
•							Zainal M, Masran L,
							Ropilah AR. Blindness
							and visual impairment
							amongst rural Malays in
				MSVI,			Kuala Selangor,
				blind,			Selangor. Med J
				moderate			Malaysia. 1998; 53(1):
Malaysia	Subnational	No	Both	, severe	1993	1994	46-50.
							International Centre for
							Eye Health (ICEH).
							Maldives Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2016.
				blind,			Grootebroek,
36.11	37.7		D 1	moderate	2016	2016	Netherlands: RAAB
Maldives	National	Yes	Both	, severe	2016	2016	Repository.
			1				International Centre for
							Eye Health (ICEH). Mali
			1				- Koulikoro Rapid Assessment of Avoidable
			1	MSVI,			Assessment of Avoidable Blindness 2008.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Mali	Subnational	Yes	Both	, severe	2008	2008	Repository.
171411	Sachational	100	Dom	, 50 1010	2000	2000	International Centre for
			1				Eye Health (ICEH). Mali
			1	MSVI,			- Koulikoro Rapid
			1	blind,			Assessment of Avoidable
			1	moderate			Blindness 2011.
Mali	Subnational	Yes	Both	, severe	2011	2011	Grootebroek,
	•	•	•			0	

	-1	1	ı	1	1	1	NI-41 - 1 - 1 - DAAD
							Netherlands: RAAB
							Repository.
							Kortlang C, Koster JC,
							Coulibaly S, Dubbeldam
							RP. Prevalence of
							blindness and visual
							impairment in the region
							of Ségou, Mali. A
							baseline survey for a
							primary eye care
							programme. Trop Med
				MSVI,			<i>Int Health</i> . 1996; 1(3):
Mali	Subnational	No	Both	blind	1990	1990	314-9.
							International Centre for
							Eye Health (ICEH),
							Tennent Institute of
							Ophthalmology, Vision
							Institute, Carlota Hospital
							(Nuevo LeÃ3n). Mexico -
				MSVI,			Chiapas Rapid
				blind,			Assessment of Avoidable
				moderate			Blindness and Diabetic
Mexico	Subnational	Yes	Both	, severe	2009	2010	Retinopathy 2010.
							International Centre for
							Eye Health (ICEH).
							Mexico - Nuevo Leon
							Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			2005-2006. Grootebroek,
				moderate			Netherlands: RAAB
Mexico	Subnational	Yes	Both	, severe	2005	2006	Repository.
							International Centre for
							Eye Health (ICEH).
							Mexico - Nuevo Leon
							Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			Survey 2014.
				mild,			Grootebroek,
				moderate			Netherlands: RAAB
Mexico	Subnational	Yes	Both	, severe	2014	2014	Repository, 2014.
1/10/11/03	2 40 114 110 1141	100	Bom	, 50 . 610		2011	International Centre for
							Eye Health (ICEH).
							Mexico - Querétaro de
					1		Arteaga Rapid
				MSVI,	1		Assessment of Avoidable
				blind,	1		Blindness 2015-2016.
				mild,			Grootebroek,
				moderate			Netherlands: RAAB
Mexico	Subnational	Yes	Both	, severe	2015	2016	Repository.
WICKICO	Subhational	105	Don	, severe	2013	2010	Secretariat of Health
							(Mexico), Secretary of
							Public Education
							(Mexico). Mexico
					1		National School Health
					1		Survey 2008.
							Cuernavaca, Mexico:
							National Institute of
				moderate			
Mexico	Subnational	No	Drog on time	moderate	2000	2009	Public Health (Mexico),
I IVII OV 100	Dupnational	No	Presenting	, severe	2008	2008	2010.

Mongolia National Yes Both Mongolia Repository, 2014. Mongolia National Yes Both Repository, 2014. Mongolia National Yes Both Repository, 2014. Mongolia National Yes Both Repository, 2014. Mongolia Rapid Assessment of Avoidable Blindness Survey 2013. Mongolia Planting Health Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly Epidemiol Rec. 1994:	able 3.
Mongolia Rapid Assessment of Avoidable Blindness Survey 2013. Mongolia National Yes Both , severe 2012 2013 Repository, 2014. World Health Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly	3.
MSVI, blind, moderate not moder	3.
Mongolia National Yes Both MSVI, blind, moderate severe 2012 2013 Repository, 2014. World Health Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly	3.
Mongolia National Yes Both , severe 2012 2013 Repository, 2014. World Health Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly	
Mongolia National Yes Both , severe 2012 2013 Repository, 2014. World Health Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly	
World Health Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and blind, low vision.Wkly	
MSVI, blind, Organization (WHO). Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly	
MSVI, blind, Prevention of blindness (PBL). Prevalence and causes of blindness and low vision. Wkly	
MSVI, blind, (PBL). Prevalence and causes of blindness and low vision. Wkly	
MSVI, causes of blindness and low vision. Wkly	
blind, low vision. Wkly	
	d
Morocco National No Both , severe 1992 1992 69(18): 129-31.	
International Centre for)r
Eye Health (ICEH).	′1
Mozambique - Nampula	ıla
Rapid Assessment of	·
Avoidable Blindness	
MSVI, Survey 2011.	
blind, Grootebroek,	
moderate Netherlands: RAAB	
Mozambique Subnational Yes Both , severe 2011 2011 Repository, 2014.	
International Centre for	r
Eye Health (ICEH).	
Mozambique - Sofala Division Rapid	
Assessment of Avoidable	hle
MSVI, Blindness 2012.	.orc
blind, Grootebroek,	
moderate 2009, 2010, Netherlands: RAAB	
Mozambique Subnational Yes Both , severe 2012 2012 Repository.	
Casson RJ, Newland HS	∃S,
Muecke J, McGovern S,	
Durkin S, Sullivan T, Oc	Oo
TZ, Aung TH, Shein	
WK, Selva D, Aung T.	
Prevalence and causes of	of
MSVI, visual impairment in rural Myanmar: the	
MSVI, rural Myanmar: the blind, Meiktila Eye Study.	
moderate Ophthalmology. 2007;	
Myanmar Subnational No Both , severe 2005 2005 114(12): 2302-8.	<u>'</u>
Dev MK, Shrestha GS,	,
Paudel N, Joshi ND,	
Thapa M, Shah DN.	
Visual status and ocular	
morbidity in older adults	
living in residential care.	
blind, Graefes Arch Clin Exp)
Nonel Subnetional No Presenting savers 2000 2011 250(0): 1387-03	
NepalSubnationalNoPresenting, severe20092011250(9): 1387-93.Dulal S, Sapkota YD.	\longrightarrow
Prevalence of blindness	38
MSVI, and visual impairment	
blind, and its causes among	
moderate people aged 50 years and	1
Nepal Subnational No Presenting, severe 2009 2011 above in Karnali Zone,	

	1	1	1	I	1	1	I
							Nepal. Nepal J
Nepal	Subnational	Yes	Both	MSVI, blind, moderate	2008	2008	Ophthalmol. 2012; 4(2). International Centre for Eye Health (ICEH), Tilganga Institute of Ophthalmology. Nepal - Bagmati Zone Rapid Assessment for Avoidable Blindness 2008.
				,			International Centre for
Nepal	Subnational	Yes	Both	MSVI, blind, moderate , severe	2008	2008	Eye Health (ICEH). Nepal - Bheri Zone Rapid Assessment of Avoidable Blindness 2009.
Nepal	Subnational	Yes	Both	MSVI, blind, moderate	2010	2010	International Centre for Eye Health (ICEH). Nepal - Dhaulagiri Zone Rapid Assessment of Avoidable Blindness 2010.
торат	Suomanoman	103	Don	, severe	2010	2010	International Centre for
Nepal	Subnational	Yes	Both	MSVI, blind, moderate	2008	2008	Eye Health (ICEH). Nepal - Janakpur Rapid Assessment for Avoidable Blindness 2008. Grootebroek, Netherlands: RAAB Repository.
Териг	Subhational	103	Both	, severe	2000	2000	International Centre for
Nepal	Subnational	Yes	Both	MSVI, blind, moderate , severe	2008	2008	Eye Health (ICEH). Nepal - Karnali Zone Rapid Assessment of Avoidable Blindness 2008.
Nepal	Subnational	Yes	Both	MSVI, blind, moderate , severe	2008	2009	International Centre for Eye Health (ICEH). Nepal - Koshi Zone Rapid Assessment of Avoidable Blindness 2008-2009.
Nepal	Subnational	Yes	Both	MSVI, blind, moderate , severe	2009	2009	International Centre for Eye Health (ICEH). Nepal - Mechi Zone Rapid Assessment of Avoidable Blindness 2009.
Nepal	Subnational	Yes	Both	MSVI, blind, moderate , severe	2015	2016	International Centre for Eye Health (ICEH). Nepal - Narayani Rapid Assessment of Avoidable Blindness 2015-2016. Grootebroek, Netherlands: RAAB Repository.
Nepal	Subnational	Yes	Both	MSVI, blind, moderate , severe	2010	2010	International Centre for Eye Health (ICEH). Nepal - Rapti Zone Rapid Assessment of Avoidable Blindness 2010.

	1		1	1	1	1	
							International Centre for Eye Health (ICEH).
				MSVI,			Nepal - Sagarmatha Zone
				blind,			Rapid Assessment of
				moderate			Avoidable Blindness
Nepal	Subnational	Yes	Both	, severe	2008	2009	2008-2009.
							International Centre for
							Eye Health (ICEH).
				MSVI,			Nepal - Seti and
				blind,			Mahakali Zones Rapid
3.7 1		3.7	D. d	moderate	2000	2000	Assessment of Avoidable
Nepal	Subnational	Yes	Both	, severe	2008	2008	Blindness 2008.
							Pokharel GP, Negrel AD,
							Munoz SR, Ellwein LB. Refractive Error Study in
							Children: results from
				blind,			Mechi Zone, Nepal. Am J
				moderate			Ophthalmol. 2000;
Nepal	Subnational	No	Presenting	, severe	1997	1997	129(4): 436-44.
1100	Swellwirellwi	110	Tresenting	, 50 (610	1,,,,	1,,,,	Sapkota YD, Sunuwar M,
							Naito T, Akura J,
							Adhikari HK. The
							prevalence of blindness
							and cataract surgery in
				blind,			Rautahat District, Nepal.
				moderate			Ophthalmic Epidemiol.
Nepal	Subnational	Yes	Presenting	, severe	2006	2006	2010; 17(2): 82-9.
							Sherchan A, Kandel RP,
							Sharma MK, Sapkota
							YD, Aghajanian J,
							Bassett KL. Blindness
							prevalence and cataract surgical coverage in
							Lumbini Zone and
				blind,			Chetwan District of
				moderate			Nepal. Br J Ophthalmol.
Nepal	Subnational	Yes	Presenting	, severe	2006	2006	2010; 94(2): 161-6.
1			3				Sherpa D, Panta CR,
							Joshi N. Ocular
							morbidity among primary
							school children of
							Dhulikhel, Nepal. Nepal
3.7			Best-	moderate	2005	2005	J Ophthalmol. 2011; 3(2):
Nepal	Subnational	No	corrected	, severe	2007	2007	172-6.
						1	Thapa R, Bajimaya S,
							Paudyal G, Khanal S, Tan S, Thapa SS, van
							Rens GHMB. Prevalence
							and causes of low vision
							and blindness in an
							elderly population in
				MSVI,			Nepal: the Bhaktapur
				blind,		1	retina study. BMC
				moderate			Ophthalmol. 2018; 18(1):
Nepal	Subnational	No	Both	, severe	2013	2015	42.
							Thapa SS, Berg RVD,
				MSVI,			Khanal S, Paudyal I,
				blind,		1	Pandey P, Maharjan N,
3.7 1	G 1 1	.,	D	moderate	2000	2000	Twyana SN, Paudyal G,
Nepal	Subnational	No	Presenting	, severe	2008	2009	Gurung R, Ruit S, Rens

GilmBv. Prevalence of visual impairment, cataract surgery and awareness of cataract and glaucoma in Bhaktapur district of Nepal: the Bhaktapur Glaucoma Study. BMC Ophthalmol. 2011; 11: 2. Thapa SS, Paudyal I, Khanal S, Twyana SN, Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Ophthalmology. 2012; 119(4): 739-64. Nepal Subnational No Both blind 2009 2011 119(4): 739-64. Nepal Subnational No Both blind 2012 2012 2013; 5(10): 81-93. Gussekloo J, de Craen AJM, Oduber C, van Boxtel MPJ, Westendorp RGJ. Sensory impairment and cognitive functioning in oldes-todd subjects: the Leiden 85+ Study. Am J Geriatr Psychiatry. 2005; 13(9): 781-6. Netherlands Subnational No Presenting , severe 1997 1999 1899; 1999; 1809: 781-6. Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8. Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8. Abdu L. Prevalence and causes of blindness and low vision in Dambatta local government area, Kano State, Nigeria. Niger J Med. 2002; 11(3): 108-12.
ataract surgery and awareness of cataract and glaucoma in Bhaktapur district of Nepal: the Bhaktapur Glaucoma Study, BMC Ophthalmol. 2011; 11: 2. Thapa SS, Paudyal I, Khanal S, Twyana SN, Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Ophthalmology. 2012; 119(4): 759-64. Nepal Subnational No Presenting Hind 2009 2011 119(4): 759-64. Thapa SS, Paudyal I, Khanal S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma Study. Nepal. Nepal J Ophthalmology. 2012; 119(4): 759-64. Thapa SS, Paudyal I, Khanal S, van Rens GHMB. A population-based survey of the prevalence and caucoma Study. Nepal. Nepal J Ophthalmol. Nepal J
awareness of cataract and glaucoma in Bhaktapur district of Nepal: the Bhaktapur Glaucoma Study, BMC Ophthalmol. 2011; 11: 2. Thapa SS, Paudyal I, Khanal S, Twyana SN, Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma Study. Ophthalmology. 2012; Bhind 2009 2011 119(4): 739-64. Nepal Subnational No Presenting MSVI, blind 2012 2012 1014(3): 739-64. Nepal Subnational No Both blind 2012 2012 2013; 5(10): 819-3. Nepal Subnational No Both blind 2012 2012 2013; 5(10): 819-3. Gussekloo J, de Craen AJM, Oduber C, van Boxtel MPI, Westendorp RGJ. Sensory impairment and cognitive functioning in oldest-old subjects: the Leiden 85+ Study. Am J Geriatr Psychiatry. 2005; 13(9): 781-6. Klaver CC, Wolfs RC, Vingerling JR, Hofman A, de Jong PT. Agespecific prevalence and causes of blindness and visual impairment in an older population: the Rotterdam Study. Arch Ophthalmol. 1998; Netherlands Netherlands Subnational No Both , severe 1990 1993 116(5): 633-8. Abdu L. Prevalence and causes of blindness and low vision in Dambatta local government area, Kano State, Nigeria Nigeria Subnational No Presenting , severe 1995 1995 113(5): 103: 103: 102: 2022
glaucoma in Bhaktapur district of Nepal: the Bhaktapur Glaucoma Study, BMC Ophthalmol. 2011; 11: 2. Thapa SS, Paudyal I, Khanal S, Twyana SN, Paudyal I, Sourung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma Study. Ophthalmology. 2012; 119(4): 759-64. Nepal Subnational No Presenting MSVI, Blind, MSVI,
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Study, BMC Ophthalmol. 2011; 11: 2. Thapa SS, Paudyal I, Khanal S, Twyana SN, Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Ophthalmology. 2012; High James S, Poudyal I, Khanal S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Ophthalmology. 2012; High James S, Poudyal I, Khanal S, van Rens G, Results of the Bhaktapur Glaucoma Study. Nepal. Nepal Jophthalmol. N
Study, BMC Ophthalmol. 2011; 11: 2. Thapa SS, Paudyal I, Khanal S, Twyana SN, Paudyal G, Gurung R, Ruit S, van Rens GHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Ophthalmology. 2012; 119(4): 799-64. Thapa SS, Poudyal I, Khanal S, van Rens G. Results of the Bhaktapur Glaucoma Study. Nepal. Nepal Subnational No Both blind 2012 2012 2013; 5(1.0): 81-93. Gussekloo J, de Craen AJM, Chapal Chyphtalmol. 2013; 5(1.0): 81-93. Gussekloo J, de Craen AJM, Chyphtalmol.
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Ruit S, van Rens ĞHMB. A population-based survey of the prevalence and types of glaucoma in Nepal: the Bhaktapur Glaucoma Study. Ophthalmology. 2012; blind. 2009 2011 119(4): 759-64. Nepal Subnational No Both Bhind 2012 2012 2013 5(1.0): 81-93. Nepal Subnational No Both Blind, moderate Netherlands Subnational No Presenting Subnational No Both Presenting Subnational No Both Presenting Netherlands Subnational No Retherlands Subn
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Gussekloo J, de Craen AJM, Oduber C, van Boxtel MPJ, Westendorp RGJ. Sensory impairment and cognitive functioning in oldest-old subjects: the Leiden 85+ Study. Am J Geriatr Psychiatry. 2005; 13(9): 781-6. Netherlands Subnational No Presenting severe 1997 1999 13(9): 781-6. Netherlands Subnational No Both Severe 1997 1999 1993 11(3): 108-12.
AJM, Oduber C, van Boxtel MPJ, Westendorp RGJ. Sensory impairment and cognitive functioning in oldest-old subjects: the Leiden 85+ Study. Am J Geriatr Psychiatry. 2005; 13(9): 781-6. Netherlands Subnational No Presenting No Presenting No Presenting No Presenting No Netherlands
Boxtel MPJ, Westendorp RGJ. Sensory impairment and cognitive functioning in oldest-old subjects: the Leiden 85+ Study. Am J Geriatr Psychiatry. 2005; 13(9): 781-6. Netherlands Subnational No Presenting
RGJ. Sensory impairment and cognitive functioning in oldest-old subjects: the Leiden 85+ Study. Am J Geriatr Psychiatry. 2005; Netherlands Subnational No Presenting , severe 1997 1999 13(9): 781-6. Netherlands Subnational No Presenting , severe 1997 1999 13(9): 781-6. MSVI, blind, moderate and causes of blindness and visual impairment in an older population: the Rotterdam Study. Arch Ophthalmol. 1998; Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8. MSVI, blind, moderate , severe 1990 1993 116(5): 653-8. Abdu L. Prevalence and causes of blindness and low vision in Dambatta local government area, Kano State, Nigeria. Niger J Med. 2002; Nigeria Subnational No Presenting , severe 1995 1995 11(3): 108-12.
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Klaver CC, Wolfs RC, Vingerling JR, Hofman A, de Jong PT. Age-specific prevalence and causes of blindness and visual impairment in an older population: the Rotterdam Study. Arch Ophthalmol. 1998; Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8.
Netherlands Subnational No Both Severe 1990 1993 116(5): 653-8. MSVI, blind, moderate NSVI, blind, moderate Subnational No Presenting Netherlands Subnational No Presenting Networks and Subnational No Presenting Networks (Networks) (Network
A, de Jong PT. Agespecific prevalence and causes of blindness and visual impairment in an older population: the Rotterdam Study. Arch Ophthalmol. 1998; Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8. MSVI,
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Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8. Subnational No Both
Netherlands Subnational No Both , severe 1990 1993 116(5): 653-8. Abdu L. Prevalence and causes of blindness and low vision in Dambatta local government area, Kano State, Nigeria. Nigeria Subnational No Presenting , severe 1995 1995 11(3): 108-12.
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Nigeria Subnational No Presenting , severe 1995 1995 11(3): 108-12.
Nigeria Subnational No Presenting , severe 1995 1995 11(3): 108-12.
Abegunde KA, Owoaje
ET. Health problems and
associated risk factors in
selected urban and rural
elderly population groups
blind, of South-West Nigeria.
Best- moderate Ann Afr Med. 2013;
Nigeria Subnational No corrected , severe 2010 2012 12(2): 90-7.

	1		1	1	1		
							Ajaiyeoba AI, Isawumi MA, Adeoye AO, Oluleye TS. Pattern of eye diseases and visual impairment among
							students in southwestern
				blind,			Nigeria. Int J
Nimonia	C1	NI-	D	moderate	2002	2002	Ophthalmol. 2007; 27(5):
Nigeria	Subnational	No	Presenting	, severe	2002	2002	287-92. Ejimadu CS, Adio AO.
							The burden of low vision
							in farming communities
			D (blind,			in South-South Nigeria.
Nigeria	Subnational	No	Best- corrected	moderate , severe	2007	2007	Niger J Med. 2012; 21(2): 218-22.
Nigeria	Suonational	110	Corrected	, severe	2007	2007	Ezepue UF. Magnitude
							and causes of blindness
							and low vision in
				MSVI,			Anambra State of Nigeria (results of 1992 point
				blind,			prevalence survey).
				moderate			Public Health. 1997;
Nigeria	Subnational	No	Both	, severe	1992	1992	111(5): 305-9.
							International Centre for
							Eye Health (ICEH). Nigeria - Sokoto Rapid
				MSVI,			Assessment of Avoidable
				blind,			Blindness 2016.
				mild,			Grootebroek,
Nigeria	Subnational	Yes	Both	moderate, severe	2016	2016	Netherlands: RAAB Repository.
Nigeria	Subilational	168	Don	, severe	2010	2010	Kolawole OU, Ashaye
							AO, Mahmoud AO,
							Adeoti CO. Cataract
				MCM			blindness in Osun state,
				MSVI, blind,			Nigeria: results of a survey. Middle East Afr J
				moderate			Ophthalmol. 2012; 19(4):
Nigeria	Subnational	Yes	Presenting	, severe	2005	2005	364-71.
							Komolafe OO, Ashaye
							AO, Ajayi BGK, Bekibele CO. Visual
							impairment from age-
							related cataract among an
							indigenous African
Nigeria	Subnational	No	Presenting	MSVI, blind	2006	2007	population. Eye (Lond). 2010; 24(1): 53-8.
INIGCIIA	Suomanoman	110	riesenting	UIIIIU	2000	2007	Kyari F, Gudlavalleti
							MVS, Sivsubramaniam
							S, Gilbert CE, Abdull
							MM, Entekume G, Foster
							A. Prevalence of blindness and visual
							impairment in Nigeria:
				MSVI,			the National Blindness
				blind,	2007		and Visual Impairment
				mild, moderate	2005, 2006,		Study. Invest Ophthalmol Vis Sci. 2009; 50(5):
Nigeria	National	No	Presenting	, severe	2006,	2007	2033-9.
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			1	П	T		
							Muhammad N, Mansur
							RM, Dantani AM,
							Elhassan E, Isiyaku S.
							Prevalence and causes of
							blindness and visual
							impairment in Sokoto
							State, Nigeria: baseline
							data for vision 2020: the
							Right to Sight Eye Care
				blind,			Programme. Middle East
				moderate			Afr J Ophthalmol. 2011;
Nigeria	Subnational	No	Presenting	, severe	2005	2005	18(2): 123-8.
				,			Okoye O, Umeh RE,
							Ezepue FU. Prevalence
							of eye diseases among
							school children in a rural
							south-eastern Nigerian
							community. Rural
				MSVI,			Remote Health. 2013;
Nigorio	Subnational	Vac	Draganting	blind	2010	2012	13(3): 2357.
Nigeria	Suomanonai	Yes	Presenting	UHHU	2010	2012	
							Onakpoya OH, Adeoye
							AO, Akinsola FB,
							Adegbehingbe BO.
							Prevalence of blindness
							and visual impairment in
							Atakunmosa West Local
							Government area of
				MSVI,			southwestern Nigeria.
				blind,		2005,	Tanzan Health Res Bull.
Nigeria	Subnational	No	Presenting	moderate	2004	2006	2007; 9(2): 126-31.
							Rabiu MM. Cataract
							blindness and barriers to
							uptake of cataract surgery
							in a rural community of
				blind,			northern Nigeria. Br J
				moderate			Ophthalmol. 2001; 85(7):
Nigeria	Subnational	Yes	Presenting	, severe	1999	1999	776-80.
							Khandekar R,
					1		Mohammed AJ, Raisi
							AA. Prevalence and
					1		causes of blindness and
							low vision: before and
							five years after "VISION
					1		2020" initiatives in
				blind,			Oman: a review.
				moderate	1		Ophthalmic Epidemiol.
Oman	National	No	Presenting	, severe	2005	2005	2007; 14(1): 9-15.
		1		, _ ,			Ahmad K, Khan MD,
							Qureshi MB, Munami S,
					1		Shah RA, Rasheed H,
							Jamali B, Baluch A,
							Khan MA. Prevalence
					1		and causes of blindness
				MSVI,			and low vision in a rural
				blind,	1		setting in Pakistan.
				moderate			
Pakistan	Subnational	No	Draganting		1009	1998	Ophthalmic Epidemiol.
rakistali	Suomational	No	Presenting	, severe	1998	1998	2005; 12(1): 19-23.
				blind,			Haider S, Hussain A,
D-1-1-4	C1	37	D	moderate	2000	2001	Limburg H. Cataract
Pakistan	Subnational	Yes	Presenting	, severe	2000	2001	blindness in Chakwal

		1		1			District, Pakistan: results
							of a survey. Ophthalmic Epidemiol. 2003; 10(4): 249-58.
Pakistan	Subnational	Yes	Presenting	MSVI, blind, moderate , severe	2000	2000	International Centre for Eye Health (ICEH). Pakistan - Chakwal Rapid Assessment of Avoidable Blindness 2000.
				MSVI, blind, moderate			International Centre for Eye Health (ICEH). Pakistan - Peshawar Rapid Assessment of Avoidable Blindness 2013. Grootebroek, Netherlands: RAAB
Pakistan	Subnational	Yes	Both	, severe	2013	2013	Repository.
Deleisten	Nistimal	NI-	Duutin-	MSVI, blind, mild, moderate	2001	2002	Pakistan National Survey on Blindness and Low Vision 2002-2004.
Pakistan	National	No	Presenting	, severe	2001	2003	[Unpublished]. Shaikh SP, Aziz TM.
Pakistan	Subnational	No	Presenting	blind, moderate , severe	2003	2003	Pattern of eye diseases in children of 5-15 years at Bazzertaline Area (South Karachi) Pakistan. J Coll Physicians Surg Pak. 2005; 15(5): 291-4.
Palestine	National	Yes	Presenting	MSVI, blind, moderate , severe	2008	2008	Chiang F, Kuper H, Lindfield R, Keenan T, Seyam N, Magauran D, Khalilia N, Batta H, Abdeen Z, Sargent N. Rapid assessment of avoidable blindness in the Occupied Palestinian Territories. PLoS One. 2010; 5(7): e11854.
Palestine	National	Yes	Both	MSVI, blind, moderate	2008	2008	International Centre for Eye Health (ICEH). Palestine Rapid Assessment of Avoidable Blindness 2008. Grootebroek, Netherlands: RAAB Repository.
1 alestille	ranonai	1 68	Dom	, severe	2006	2000	International Centre for
Panama	National	Yes	Both	MSVI, blind, moderate , severe	2012	2014	Eye Health (ICEH), Ophthalmology School, Specialized University of the Americas (Panama). Panama Rapid Assessment of Avoidable Blindness 2012-2014. Grootebroek, Netherlands: RAAB Repository.
1 anama	1 tanonai	103	Dom	, 50 1010	2012	2017	repository.

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Papua New Guinea	Subnational	Yes	Presenting	MSVI, blind, moderate , severe	2004	2005	Garap JN, Sheeladevi S, Shamanna BR, Nirmalan PK, Brian G, Williams C. Blindness and vision impairment in the elderly of Papua New Guinea. Clin Experiment Ophthalmol. 2006; 34(4): 335-41. Duerksen R, Limburg H,
Paraguay	National	Yes	Presenting	MSVI, blind, moderate , severe	1999	1999	Carron JE, Foster A. Cataract blindness in Paraguay – results of a national survey. <i>Ophthalmic Epidemiol</i> . 2003; 10(5): 349-57.
Paraguay	National	Yes	Presenting	MSVI, blind, moderate , severe	1999, 2011	1999, 2011	Duerksen R, Limburg H, Lansingh VC, Silva JC. Review of blindness and visual impairment in Paraguay: changes between 1999 and 2011. Ophthalmic Epidemiol. 2013; 20(5.0): 301-7.
Paraguay	National	Yes	Both	MSVI, blind, moderate	2011	2011	International Centre for Eye Health (ICEH). Paraguay Rapid Assessment of Avoidable Blindness 2011.
Peru	National	Yes	Both	MSVI, blind, moderate , severe	2011	2012	International Centre for Eye Health (ICEH). Peru Rapid Assessment of Avoidable Blindness 2011-2012. Grootebroek, Netherlands: RAAB Repository.
Peru	Subnational	Yes	Both	MSVI, blind, moderate , severe	2002	2003	Pongo Aguila L, Carrión R, Luna W, Silva JC, Limburg H. [Cataract blindness in people 50 years old or older in a semirural area of northern Peru]. Rev Panam Salud Publica. 2005; 17(5-6): 387-93.
Philippines	Subnational	Yes	Presenting	MSVI, blind, moderate , severe	2005, 2006	2005, 2006	Eusebio C, Kuper H, Polack S, Enconado J, Tongson N, Dionio D, Dumdum A, Limburg H, Foster A. Rapid assessment of avoidable blindness in Negros Island and Antique District, Philippines. Br J Ophthalmol. 2007; 91(12): 1588-92.
Philippines	Subnational	Yes	Both	MSVI, blind,	2006	2006	International Centre for Eye Health (ICEH). Philippines - Antique

	T	1	1	1	1	1	_
				moderate			Rapid Assessment of
				, severe			Avoidable Blindness
							2006. Grootebroek,
							Netherlands: RAAB
							Repository.
							International Centre for
							Eye Health (ICEH).
							Philippines - Negros
							Island Rapid Assessment
				MSVI,			of Avoidable Blindness
				blind,			2005. Grootebroek,
D1 '1' '		3.7	D 4	moderate	2005	2005	Netherlands: RAAB
Philippines	Subnational	Yes	Both	, severe	2005	2005	Repository.
							Al Gamra H, Al
							Mansouri F, Khandekar
							R, Elshafei M, Al
							Qahtani O, Singh R,
							Hashim SP, Mujahed A,
							Makled A, Pai A.
							Prevalence and causes of blindness, low vision and
							status of cataract in 50
							years and older citizen of
							-
							Qatar – a community based
				blind,			survey. Ophthalmic
				moderate			Epidemiol. 2010; 17(5):
Qatar	National	Yes	Both	, severe	2009	2009	292-300.
Quiui	Tuttonar	103	Both	, severe	2007	2007	Zatic T1, Bendelic E2,
							Paduca A2, Rabiu M3,
							Corduneanu A2, Garaba
							A, Novac V, Curca C,
							Sorbala I, Chiaburu A,
							Verega F, Andronic V,
							Guzun I, Căpățină O,
							Zamă-Mardari I. Rapid
							assessment of avoidable
							blindness and diabetic
				MSVI,			retinopathy in Republic
				blind,			of Moldova. <i>Br J</i>
Republic of				moderate			<i>Ophthalmol</i> . 2015; 99(6):
Moldova	National	Yes	Both	, severe	2012	2012	832-6.
						1	International Centre for
						1	Eye Health (ICEH).
				MSVI,			Russia - Samara District
				blind,			Rapid Assessment for
Russian				moderate			Avoidable Blindness
Federation	Subnational	Yes	Both	, severe	2008	2009	Survey 2008.
				blind,		1	
				moderate			HG Ess D
				, near			Ufa Eye Research
Russian				vision			Institute. Russia - Ural
Federation	Subnational	No	Presenting	loss,	2015	2017	Eye and Medical Study 2015-2017.
redetation	Suomational	110	Fresenting	severe	2013	201/	International Centre for
							Eye Health (ICEH).
				MSVI,			Rwanda Rapid
				blind,			Assessment of Avoidable
				moderate			Blindness Survey 2015.
Rwanda	National	Yes	Both	, severe	2015	2015	Grootebroek,
rwanua	ranonai	1 62	שטעו	, severe	2013	2013	Grootebrock,

	I	1	I	1	l		N. d. 1. 1. DAAD
							Netherlands: RAAB
							Repository, 2014.
							Mathenge W NJ,
							Limburg H, Kuper H.
							Rapid assessment of
				1 601 11			avoidable blindness in
				MSVI,			Western Rwanda:
				blind,			blindness in a
D 1	0.1 1	3.7	D 4	moderate	2006	2006	postconflict setting. PLoS
Rwanda	Subnational	Yes	Both	, severe	2006	2006	Med. 2007; 4(7).
							Al Ghamdi AH, Rabiu
							M, Hajar S, Yorston D, Kuper H, Polack S. Rapid
							assessment of avoidable
				MSVI,			blindness and diabetic
				blind,			retinopathy in Taif, Saudi
				moderate			Arabia. Br J Ophthalmol.
Saudi Arabia	Subnational	Yes	Presenting	, severe	2011	2011	2012; 96(9): 1168-72.
Saudi / Habia	Submunionur	103	Tresenting	, severe	2011	2011	Badr IA, Saif AM, Al-
							Rajhi AA. Changing
							patterns of visual loss in
							the Eastern Province,
							Kingdom of Saudi
				blind,			Arabia. Saudi J
			Best-	moderate	1984,	1984,	Ophthalmol. 2004; 18:
Saudi Arabia	Subnational	No	corrected	, severe	1989	1990	SI56-SI64.
							International Centre for
							Eye Health (ICEH).
							Senegal - Fatick Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2010.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Senegal	Subnational	Yes	Both	, severe	2010	2010	Repository.
							International Centre for
							Eye Health (ICEH).
							Senegal - Kaolack Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2010.
				blind,			Grootebroek,
G 1		3.7	D. d	moderate	2010	2010	Netherlands: RAAB
Senegal	Subnational	Yes	Both	, severe	2010	2010	Repository.
				MCVI			International Centre for
				MSVI, blind,			Eye Health (ICEH). Sierra Leone Rapid
				moderate			Assessment of Avoidable
Sierra Leone	National	Yes	Both		2010	2011	Blindness 2010-2011.
Sicila Leone	InauOiiai	1 68	Doni	, severe	2010	2011	Dirani M, Zhou B,
							Hornbeak D, Chang BC,
							Gazzard G, Chia A, Ling
							Y, Selvaraj P, Young TL,
							Varma R, Wong TY, Saw
							SM. Prevalence and
							causes of decreased
							visual acuity in
							Singaporean Chinese
				blind,			preschoolers. Br J
				moderate			Ophthalmol. 2010;
Singapore	Subnational	No	Presenting	, severe	2007	2008	94(12): 1561-5.

Singapore Subnational No Both , severe 1997 1998 111(6): 1161-8. Singapore Subnational No Both , severe 1997 1998 111(6): 1161-8. MSVI, blind, moderate , severe 1997 1998 111(6): 1161-8. MSVI, blind, moderate and causes of low vision, and blindness in a urban malay population: the Singapore and causes of low vision and blindness in a cape and causes of low vision. MSVI, blind, moderate , severe 2004 2006 2008; 126(8): 1091-9. South Africa Subnational Ves Both , severe 1990 1991 600-ender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of Avoidable Natrica Knitch (Subnational Ves Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (Jethan) assessment of Avoidable South Africa Rapid Assessment of Avoidable South Africa Rapid Assessment of Petelath (Jethan) assessment of Avoidable South Africa Rapid Assessment of Eye Health (Jethan) assessment of Avoidable South Africa Rapid Assessment A
Singapore Subnational No Both severe 1997 1998 Causes of blindness, low vision, and questionnaire assessed poor visual function in Singaporean International function in Singaporean International function in Singaporean International function in Singaporean Chinese adults: The Tanjong Pagar Survey. Ophthalmology. 2004; 111(6): 1161-8. Wong W-I., Rosman M, Aung T, Loo J-L, Shen S, Loon S-C, Tan DTH, Tai ES, Saw S-M. Prevalence and causes of low vision and blindness in an urban malay population: the Singapore Malay Eye Study. Arch Ophthalmol. 2008; 126(8): 1091-9. South Africa Subnational Yes Both Severe 2010 2006 2008; 126(8): 1091-9. Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S, Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa. Attashil i, editor. PLoS Cook CD, Tolico. PLoS Cook CD, Cook CD, Knight SE, Crofton-Briggs I. Prevalence and causes of low vision and blindness in northern KwaZulu. S Afr Med J. 1993; 38(8): 590-3. South Africa Subnational Yes Presenting severe 1990 1991 590-3. South Africa Subnational Yes Presenting severe 2009 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH), South Africa Rapid
Singapore Subnational No Both Singapore Subnational No Both Singapore Subnational No Both Singapore Subnational No Both Singapore Subnational No Presenting Singapore Singapore Subnational No Presenting Singapore
Singapore Subnational No Both severe 1997 1998 111(6): 1161-8. Singapore Subnational No Both severe 1997 1998 111(6): 1161-8. Wong TY, Chong EW, Wong W-L, Rosman M, Aung T, Loo J-L, Shen S, Loon S-C, Tan DTH, Tai ES, Saw S-M. Prevalence and causes of low vision and blindness in an urban malay population: the Singapore Subnational No Presenting severe 2004 2006 2008; 126(8): 1091-9. South Africa Subnational Yes Both severe 2010 2010 70. 2012; 7(2): 30718. South Africa Subnational No Presenting severe 1990 1991 590-3. South Africa Subnational Yes Presenting severe 2009 2009 2009 2005; 74(1): 1-7. MSVI, blind, moderate severe 2004 2016; 7(2): 230718. South Africa Subnational Yes Presenting severe 2009 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH).
Singapore Subnational No Both severe 1997 1998 111(6): 116-8. Singapore Subnational No Both severe 1997 1998 111(6): 116-8. Wong TY, Chong EW, Wong W-L, Rosman M, Wong W-L, Rosman M, Wong W-L, Rosman M, Wong C-L, Shen S, Loon S-C, Tan DTH, Tai ES, Saw S-M. Prevalence and causes of low vision and blindness in an urban malay population: the Singapore Malay Eye Study. Arch Ophthalmol. 2008; 126(8): 1091-9. Singapore Subnational No Presenting severe 2004 2006 2008; 126(8): 1091-9. South Africa Subnational Yes Both severe 2010 2010 Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence and causes of low vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS Causes and Socio-Feconomic Determinants of Vision Loss in Cape Town, South Africa. Africal Mission and blindness in northern KwaZulu. S Afr Med J. 1993; 83(8): 590-3. South Africa Subnational Yes Presenting Severe 2009 2009 2009 2105; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
Singapore Subnational No Both , severe 1997 1998 111(6): 1161-8. Singapore Subnational No Both , severe 1997 1998 111(6): 1161-8. Singapore Subnational No Presenting
Singapore Subnational No Both severe 1997 1998 Tanjong Pagar Survey. Ophthalmology. 2004; 111(6): 111(6): 1161-8. Wong TY, Chong EW, Wong W-L, Rosman M, Aung T, Loo J-L, Shen S, Loon S-C, Tan DTH, Tai ES, Saw S-M. Prevalence and causes of low vision and blindness in an urban malay population: the Singapore Malay Eye Study. Arch Ophthalmol. 2008; 126(8): 1901-9. Singapore Subnational No Presenting severe 2004 2006 2008; 126(8): 1901-9. South Africa Subnational Yes Both severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting severe 1990 1991 Sp0-3. South Africa Subnational Yes Presenting MSVI, blind, moderate severe 1990 1991 Sp0-3. South Africa Subnational Yes Presenting MSVI, blind, moderate severe 1990 1991 Sp0-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assement of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Africa Subnational Yes Presenting severe 2009 2009 2009 2015; 7(4): 1-7.
Singapore Subnational No Both severe 1997 1998 Ophthalmology. 2004; 111(6): 1161-8. Singapore Subnational No Presenting Singapore Subnational No Presenting South Africa Subnational South Africa South Afric
Singapore Subnational No Both , severe 1997 1998 111(6): 1161-8. Wong TY, Chong EW, Wong TY, Chong TY, Ch
Singapore Subnational No Presenting South Africa Subnational Yes Presenting South Africa South Africa Subnational Yes Presenting South Africa South Africa Subnational Yes Presenting South Africa South Africa South Africa Subnational Yes Presenting South Africa South Af
Aung T, Loo J-L, Shen S, Loon S-C, Tan DTH, Tai ES, Saw S-M. Prevalence and causes of low vision and blindness in an urban malay population: the Singapore Malay Eye South Africa Subnational Yes Both , severe 2004 2006 2005; 2015; 74(1): 1-7. South Africa Subnational No Presenting South Africa Subnational Yes Presenting South Africa South Africa Subnational Yes Presenting South Africa Subnational Yes Presenting South Africa South Africa Subnational Yes Presenting South Africa South Africa Subnational Yes Presenting South Africa South Africa South Africa Subnational Yes Presenting South Africa Afr Vis Eye Health. South Africa South
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Singapore Subnational No Presenting severe 2004 2006 2008; 126(8): 1091-9. Singapore Subnational No Presenting severe 2004 2006 2008; 126(8): 1091-9. Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S, Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa. South Africa Subnational Yes Both severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting severe 1990 1991 590-3. South Africa Subnational No Presenting severe 1990 1991 590-3. South Africa Subnational Yes Presenting severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH), South Africa Rapid
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Singapore Subnational No Presenting severe 2004 2006 Study. Arch Ophthalmol. 2008; 126(8): 1091-9. Subnational No Presenting severe 2004 2006 Study. Arch Ophthalmol. 2008; 126(8): 1091-9. Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa. South Africa Subnational Yes Both severe 2010 2010 One. 2012; 7(2): 230718. South Africa Subnational No Presenting severe 1990 1991 590-3. South Africa Subnational Yes Presenting severe 2009 2009 2015; 74(1): 1-7. MSVI, blind, moderate severe 2009 2009 2015; 74(1): 1-7. MSVI, blind, moderate severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH), South Africa Rapid
Singapore Subnational No Presenting severe 2004 2006 Singapore Malay Eye Study. Arch Ophthalmol. 2008; 126(8): 1091-9. Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
Singapore Subnational No Presenting severe 2004 2006 Study. Arch Ophthalmol. 2008; 126(8): 1091-9. Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS One. 2012; 7(2): e30718. South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
Singapore Subnational No Presenting , severe 2004 2006 2008; 126(8): 1091-9. Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa South Africa Subnational Yes Both , severe 2010 2010 700. 2010; 7(2): e30718. South Africa Subnational No Presenting blind, moderate , severe 1990 1991 590-3. South Africa Subnational No Presenting , severe 1990 1991 590-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH), South Africa Rapid
Cockburn N, Steven D, Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa Subnational Yes Both severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting blind, moderate severe 1990 1991 Sp0-3. South Africa Subnational No Presenting MSVI, blind, moderate severe 1990 1991 Sp0-3. MSVI, blind, moderate severe 1990 1991 Sp0-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. South Africa Subnational Yes Presenting severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH), South Africa Rapid
Lecuona K, Joubert F, Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa South Africa Subnational Yes Both Severe South Africa Subnational Yes Both Severe South Africa Subnational Yes Both Severe Severe South Africa Subnational No Presenting MSVI, blind, moderate severe layout prevalence and causes of low vision and blindness in northern KwaZulu. S Afr Med J. 1993; 83(8): 590-3. Governder P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa South Africa Subnational Yes Presenting Presenting South Africa Subnational Yes Presenting Presenting South Africa Subnational Yes Presenting Severe South Africa Subnational Yes Presenting Severe South Africa Subnational Yes Presenting Presenting Severe South Africa Subnational Centre for Eye Health (ICEH). South Africa Rapid
Rogers G, Cook C, Polack S. Prevalence, Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa. South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational Yes Presenting MSVI, blind, moderate , severe 1990 1991 Govenner P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health. (ICEH). South Africa Rapid
South Africa Subnational Yes Both , severe 2010 2010 70
South Africa Subnational Yes Both , severe 2010 2010 Causes and Socio-Economic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS One. 2012; 7(2): e30718. South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational No Presenting , severe 1990 1991 590-3. MSVI, blind, moderate , severe 1990 1991 590-3. MSVI, blind, moderate
South Africa Subnational Yes Both , severe 2010 2010 Cook CD, Knight SE, Crofton-Briggs I. Prevalence and causes of low vision and blindness in northern KwaZulu. S Afr Med J. 1993; 83(8): 50uth Africa Subnational Yes Presenting MSVI, blind, moderate South Africa Subnational Yes Presenting Severe 2009 2009 2009 2015; 74(1): 1-7. South Africa Subnational Yes Presenting Severe 2009 2009 2015; 74(1): 1-7. Economic Determinants of Vision Loss in Cape Town, South Africa. Atashili J, editor. PLoS One. 2012; 7(2): e30718. Cook CD, Knight SE, Crofton-Briggs I. Prevalence and causes of low vision and blindness in northern KwaZulu. S Afr Med J. 1993; 83(8): 590-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational No Presenting South Africa Subnational No Presenting MSVI, blind, moderate , severe 1990 1991 590-3. South Africa Subnational No Presenting MSVI, blind, moderate , severe 1990 1991 590-3. MSVI, blind, moderate , severe 1990 1991 590-3. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational Yes Both South Africa Subnational Yes Both South Africa Subnational Yes Both South Africa Subnational Yes South Africa Subnational Yes South Africa Subnational Yes South Africa Subnational No Presenting South Africa Subnational South Africa South Africa Subnational Yes Presenting South Africa South Afric
South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. South Africa Subnational Subn
South Africa Subnational Yes Both , severe 2010 2010 One. 2012; 7(2): e30718. Cook CD, Knight SE, Crofton-Briggs I. Prevalence and causes of low vision and blindness in northern KwaZulu. S Afr Med J. 1993; 83(8): 590-3. South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational Wo Presenting , severe 1990 1991 590-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa Afr Vis Eye Health. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational Sub
South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational No Presenting , severe 1990 1991 590-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. MSVI, blind, moderate , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational No Presenting severe 1990 1991 590-3. South Africa Subnational No Presenting severe 1990 1991 590-3. Governder P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational No Presenting 1990 1991 590-3. South Africa Subnational No Presenting 1990 1991 590-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational No Presenting , severe 1990 1991 590-3. South Africa Subnational No Presenting South Africa Subnational No Presenting South Africa Subnational Yes Presenting South Africa Subnational Yes Presenting South Africa South A
South Africa Subnational No Presenting , severe 1990 1991 590-3. Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
Govender P, Ramson P, Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational Yes Presenting Yes Visser L, Naidoo KS. Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. Afr Vis Eye Health. Afr Vis Eye Health. International Centre for Eye Health (ICEH). South Africa Rapid
Rapid assessment of avoidable blindness in the northern eThekwini district of KwaZulu-Natal Province, South Africa. South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. South Africa Subnational Subna
South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. South Africa Subnational Subna
South Africa Subnational Yes Presenting , severe 2009 2009 2015; 74(1): 1-7. South Africa Subnational Subna
South AfricaSubnationalYesPresentingblind, moderate , severe20092009Province, South Africa. Afr Vis Eye Health.South AfricaSubnationalYesPresenting, severe20092015; 74(1): 1-7.International Centre for Eye Health (ICEH). South Africa Rapid
South Africa Subnational Yes Presenting moderate , severe 2009 2009 2015; 74(1): 1-7. International Centre for Eye Health (ICEH). South Africa Rapid
International Centre for Eye Health (ICEH). South Africa Rapid
Eye Health (ICEH). South Africa Rapid
South Africa Rapid
Assessment of Avoidable
MCVI DE:- J 2010
MSVI, Blindness Survey 2010. Grootebroek,
moderate Netherlands: RAAB
South Africa Subnational Yes Both , severe 2010 2010 Repository, 2014.
Ngondi J, Ole-Sempele
MSVI, F, Onsarigo A, Matende
blind, I, Baba S, Reacher M,
moderate 2003, Matthews F, Brayne C,
South Sudan Subnational No Presenting , severe 2005 2005 Emerson PM. Prevalence

	1		T	_			
							and causes of blindness
							and low vision in
							southern Sudan. PLoS
							Med. 2006; 3(12): e477.
							Antón A, Andrada MT,
							Mayo A, Portela J,
							Merayo J. Epidemiology
							of refractive errors in an
							adult European
				MOM			population: the Segovia
			D 4	MSVI,			study. Ophthalmic
G	C-1 1	NT.	Best-	blind,	2007	2007	Epidemiol. 2009; 16(4):
Spain	Subnational	No	corrected	mild	2007	2007	231-7.
							Garin N, Olaya B, Lara
							E, Moneta MV, Miret M,
							Ayuso-Mateos JL, Haro
							JM. Visual impairment and multimorbidity in a
			1	blind,			representative sample of the Spanish population.
				moderate			BMC Public Health.
Spain	National	No	Presenting	, severe	2011	2012	2014; 14: 815.
Spani	1 tanonal	110	1 resenting	, severe	2011	2012	Edussuriya K,
							Sennanayake S,
							Senaratne T, Marshall D,
							Sullivan T, Selva D,
							Casson RJ. The
							prevalence and causes of
							visual impairment in
							central Sri Lanka: the
				blind,			Kandy Eye study.
				moderate			Ophthalmology. 2009;
Sri Lanka	Subnational	No	Both	, severe	2006	2007	116(1): 52-6.
							International Centre for
							Eye Health (ICEH).
							Sudan - North Kordofan
							Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			2010. Grootebroek,
				moderate			Netherlands: RAAB
Sudan	Subnational	Yes	Both	, severe	2010	2010	Repository.
			1				International Centre for
			1				Eye Health (ICEH).
			1				Sudan - Northern Rapid
				MOVI	1		Assessment of Avoidable
			1	MSVI,			Blindness 2009-2010.
			1	blind,			Grootebroek,
Sudan	Subnational	Vac	Both	moderate	2010	2010	Netherlands: RAAB
Sudali	Suomanonai	Yes	Бош	, severe	2010	2010	Repository. International Centre for
			1				Eye Health (ICEH).
			1				Sudan - Sennar Rapid
					1		Assessment of Avoidable
			1	MSVI,			Blindness 2010.
			1	blind,			Grootebroek,
			1	moderate			Netherlands: RAAB
Sudan	Subnational	Yes	Both	, severe	2010	2010	Repository.
				,			International Centre for
			1	MSVI,			Eye Health (ICEH).
Sudan	Subnational	Yes	Both	blind,	2010	2010	Sudan - White Nile Rapid
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				moderate			Assessment of Avoidable
				, severe			Blindness Survey 2010.
							Grootebroek,
							Netherlands: RAAB
							Repository, 2010.
							Minderhoud J,
							Pawiroredjo JC, Themen
							HCI, Bueno de Mesquita-
							Voigt A-MT, Siban MR,
							Forster-Pawiroredjo CM,
							Limburg H, van Nispen
							RMA, Mans DRA, Moll
							AC. Blindness and Visual
							Impairment in the
				MSVI,			Republic of
				blind,			Suriname. <i>Ophthalmolog</i>
				moderate			y. 2015; 122(10): 2147–
Suriname	National	Yes	Presenting	, severe	2013	2014	9.
Sumume	rutionar	105	Tresenting	, severe	2013	2011	Kvarnström G, Jakobsson
							P, Lennerstrand G.
							Visual screening of
							Swedish children: an
							ophthalmological
				blind,			evaluation. <i>Acta</i>
				moderate			Ophthalmol Scand. 2001;
Sweden	Subnational	No	Presenting	, severe	1982	1993	79(3): 240-4.
Sweden	Suonational	110	Tresenting	, severe	1702	1773	Chen S-J, Cheng C-Y, Li
							A-F, Peng K-L, Chou P,
							Chiou S-H, Hsu W-M.
							Prevalence and
							associated risk factors of
							myopic maculopathy in
				MSVI,			elderly Chinese: the
Taiwan				blind,			Shihpai eye study. Invest
(Province of				moderate			Ophthalmol Vis Sci.
China)	Subnational	No	Both	, severe	2009	2011	2012; 53(8): 4868-73.
Cilila)	Subhational	110	Dom	, severe	2007	2011	Hsu WM, Cheng CY, Liu
							JH, Tsai SY, Chou P.
							Prevalence and causes of
							visual impairment in an
							elderly Chinese
							population in Taiwan: the
Taiwan				MSVI,			Shihpai Eye
(Province of				blind,			
China)	Cubmatianal	No	Dath		1000	2000	Study. Ophthalmology.
Ciiiia)	Subnational	No	Both	mild	1999	2000	2004; 111(1): 62-9. Liu JH, Cheng CY, Chen
							SJ, Lee FL. Visual
							impairment in a
							Taiwanese population:
				MSVI,			prevalence, causes, and
Taiwan				blind,			socioeconomic factors.
			Post	moderate			
(Province of China)	Subnational	No	Best- corrected		1993	1995	Ophthalmic Epidemiol. 2001; 8(5): 339-50.
Cillia)	Subhational	110	corrected	, severe	1773	1773	
							Tsai C-Y, Woung L-C,
							Chou P, Yang C-S, Sheu
							M-M, Wu J-R, Chuang
Toir				1,11, 1			T-L, Tung T-H. The
Taiwan			Dogt	blind,			current status of visual
(Province of	Noti1	NT-	Best-	moderate	2002	2002	disability in the elderly
China)	National	No	corrected	, severe	2002	2002	population of Taiwan.

	I	1	I	I	1		Inn I Onbthalmal 2005.
							Jpn J Ophthalmol. 2005; 49(2): 166-72.
							Isipradit S, Sirimaharaj
							M, Charukamnoetkanok
							P, Thonginnetra O,
							Wongsawad W,
							Sathornsumetee B,
							Somboonthanakij S,
							Soomsawasdi P,
							Jitawatanarat U,
							Taweebanjongsin W,
							Arayangkoon E, Arame
							P, Kobkoonthon C,
							Pangputhipong P. The
				MCVI			first rapid assessment of avoidable blindness
				MSVI, blind,			
				moderate			(RAAB) in Thailand. PLoS One. 2014; 9(12):
Thailand	National	Yes	Presenting	, severe	2012	2013	e114245.
Thanana	Tanonal	103	1 resemming	, severe	2012	2013	Singalavanija A,
							Metheetrairut A,
							Ruangvaravate N,
							Tuchinda R,
							Wanumkarng N. Ocular
							diseases and blindness in
				blind,			elderly Thais. J Med
				moderate			Assoc Thai. 2001;
Thailand	Subnational	No	Both	, severe	1997	1998	84(10): 1383-8.
				MSVI,			Thailand National Survey
				blind, moderate			of Blindness and Low Vision 1994.
Thailand	National	No	Presenting	, severe	1994	1995	[Unpublished].
Thanana	Tvationar	110	Tresenting	, severe	1777	1773	International Centre for
							Eye Health (ICEH).
							Timor Leste Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2016.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Timor-Leste	National	Yes	Both	, severe	2016	2016	Repository.
							Ramke J, Brian G,
							Naduvilath T, Lee L,
							Qoqonokana MQ.
							Prevalence and Causes of Blindness and Low
							Vision Revisited after 5
							years of Eye Care in
				blind,			Timor- Leste.
				moderate			Ophthalmic Epidemiol.
Timor-Leste	National	Yes	Presenting	, severe	2009	2010	2012; 19(2): 52-7.
							Newland HS, Woodward
							AJ, Taumoepeau LA,
							Karunaratne NS, Duguid
							IG. Epidemiology of
) (CT)			blindness and visual
				MSVI,			impairment in the
				blind, moderate		1	kingdom of Tonga. Br J
Tonga	National	No	Both		1991	1991	Ophthalmol. 1994; 78(5): 344-8.
Tonga	Manonai	INO	Dom	, severe	1771	1771	JTT-0.

	1	1	ı	ı	1	1	I = =
							Braithwaite T,
							Bartholomew D,
							Deomansingh F, Fraser
							A, Maharaj V, Bridgemohan P, Sharma
							SC, Singh DP,
							Ramsewak SS, Bourne
				blind,			RRA. The prevalence and
				mild,			causes of blindness and
				moderate			vision impairment in
				, near			Trinidad and
				vision			Tobago. Invest
Trinidad and				loss,			Ophthalmol Vis Sci.
Tobago	National	No	Presenting	severe	2013	2014	2015; 56(7).
							Ayed S, Négrel AD,
							Nabli M, Kamel N, Jebri
							AM, Siddhom M.
							[Prevalence and causes of
							blindness in the Tunisian
							Republic. Results of a national survey
							conducted in 1993.
							Tunisian Team on the
				blind,			Evaluation of
				moderate			Blindness]. Sante. 1998;
Tunisia	National	No	Presenting	, severe	1993	1993	8(4): 275-82.
							Negrel AD, Minassian
							DC, Sayek F. Blindness
							and low vision in
				blind,			southeast Turkey.
T	C14:1	NI.	D	moderate	1000	1000	Ophthalmic Epidemiol.
Turkey	Subnational	No	Presenting	, severe	1989	1989	1996; 3(3): 127-34. Amansakhatov S,
							Volokhovskaya ZP,
							Afanasyeva AN,
							Limburg H. Cataract
							blindness in
				MSVI,			Turkmenistan: results of
				blind,			a national survey. Br J
Turkmenista				moderate			Ophthalmol. 2002;
n	National	Yes	Presenting	, severe	2000	2001	86(11): 1207-10.
							International Centre for
							Eye Health (ICEH).
							Uganda - Hoima Rapid Assessment of Avoidable
				MSVI,			Blindness 2013.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Uganda	Subnational	Yes	Both	, severe	2013	2013	Repository.
							International Centre for
							Eye Health (ICEH).
							Uganda - Karamoja
							Rapid Assessment of
							Avoidable Blindness
				MSVI,			Survey 2015. Grootebroek,
				blind,			Netherlands: RAAB
				moderate			Repository.[Forthcoming
Uganda	Subnational	Yes	Both	, severe	2014	2015].
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Hand	Submedianal	V	D-4l	MSVI, blind, moderate	2012	2012	International Centre for Eye Health (ICEH). Uganda - Mubende Rapid Assessment of Avoidable Blindness 2012. Grootebroek, Netherlands: RAAB
Uganda	Subnational	Yes	Both	, severe	2012	2012	Repository.
Uganda	Subnational	Yes	Both	MSVI, blind, moderate , severe	2011	2011	International Centre for Eye Health (ICEH). Uganda - Western Ntungamo Rapid Assessment of Avoidable Blindness Survey 2011. Grootebroek, Netherlands: RAAB Repository. [Forthcoming].
- 6							Mbulaiteye SM, Reeves
Llganda	Subnational	No	Presenting	MSVI, blind, moderate	1000	2000,	BC, Karabalinde A, Ruberantwari A, Mulwanyi F, Whitworth JAG, Johnson GJ. Evaluation of E- optotypes as a screening test and the prevalence and causes of visual loss in a rural population in SW Uganda. Ophthalmic Epidemiol. 2002; 9(4):
Uganda	Subnational	No	Presenting	, severe	1999	2001	251-62.
United Kingdom	Subnational	No	Best-corrected	blind, moderate	1982	1984	Gibson JM, Lavery JR, Rosenthal AR. Blindness and partial sight in an elderly population. Br J Ophthalmol. 1986; 70(9): 700-5.
United Kingdom	Subnational	No	Presenting	blind, moderate , severe	2004	2011	Khawaja AP, Chan MPY, Hayat S, Broadway DC, Luben R, Garway-Heath DF, Sherwin JC, Yip JLY, Dalzell N, Wareham NJ, Khaw K-T, Foster PJ. The EPIC-Norfolk Eye Study: rationale, methods and a cross-sectional analysis of visual impairment in a population-based cohort. BMJ Open. 2013; 3(3). Van der Pols JC, Bates CJ, McGraw PV,
United Kingdom	Subnational	No	Both	moderate , severe	1994	1995	Thompson JR, Reacher M, Prentice A, Finch S. Visual acuity measurements in a national sample of British elderly people. Br J Ophthalmol. 2000; 84(2): 165-70.

United Kingdom Subnational No Presenting severe 1989 1991 1226-6 Kingdom Subnational No Presenting severe 2007 2007 2007 2007 190-4 Kingdom Subnational No Presenting severe 2007 2007 2007 2007 2007 2007 2007 200		ī	1	1	1	ı	1	I 11 1
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United Republic of Tanzania Subnational Yes Both severe Soth Soth Soth Soth Soth Soth Soth Soth								
United Kingdom Subnational No Presenting , severe 1989 1991 1226-9. Habiyakire C, Kabona G, Courtright P, Lewallen S, Rapid assessment of avoidable blindness and cataract surgical services in Kilimanjaro region, Tanzania. Ophthalmic Epidemiol. 2010; 17(2): 90-4. United Republic of Tanzania Subnational Yes Both , severe 2007 2007 2007 2007. United Republic of Tanzania Subnational Yes Both , severe 2011 2011 [Unpublished]. United Republic of Tanzania Subnational Yes Both , severe 2011 2011 [Unpublished]. United Republic of Tanzania Subnational Yes Both , severe 2007 2007 2007 Repository. 2010. United Republic of Tanzania Subnational Yes Both , severe 2011 2011 [Unpublished]. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2007 2007 International Centre for Eye Health (ICEH). Tanzania - Kilimanjaro Rapid Assessment of Avoidable Blindness 2007. Grootebroek, Netherlands: RAAB Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational No Both , severe 2007 2007 2007. Both Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational No Both , severe 2007 2007 2007. Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 Repository. United Republic of Tanzania Subna					blind,			elderly population and
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United Republic of Tanzania Subnational Yes Both , severe 2007 2007 90-4. United Republic of Tanzania Subnational Yes Both , severe 2007 2007 90-4. United Republic of Tanzania Subnational Yes Both , severe 2011 2011 (CFU), Tanzania - Kigoma Rapid Assessment of Avoidable Blindness Survey 2011. Grootebroek, Netherlands: RAAB Repository, 2010. [Unpublished]. United Republic of Tanzania Subnational Yes Both , severe 2011 2011 (Unpublished]. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 (Pelath (ICEH)), Tanzania - Kilimanjaro Rapid Assessment of Avoidable Blindness Survey 2011. Grootebroek, Netherlands: RAAB Repository, 2010. [Unpublished]. United Republic of Tanzania Subnational Yes Both , severe 2007 2007 (Pelath), Tanzania - Kilimanjaro Rapid Assessment of Avoidable Blindness Survey 2011. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH), Tanzania - Singida Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Republic of Tanzania Subnational Yes Both , severe 2007 2007 (Pelath), Tanzania - Singida Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Republic of Tanzania Subnational Yes Both , severe 2017 2017 (Pelath), Tanzania - Singida Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. United Republic of Tanzania Subnational Yes Both , severe 2017 2017 (Pelath), Tanzania - Singida Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. United Republic of Tanzania Subnational No Both , severe 2017 2017 (Percalth), Tanzania - Singida Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. United Republic of Tanzania Subnational No Both , severe 2017 2017 (Percalth), Tanzania - Subnational Yes Both , severe 2017 2017 (Percalth), Tanzania - Subnational Yes Both , severe 2017 2017 (Percalth), Tanzania - Subnational Yes Both , severe 2017 2017 (Percalth), Tanzania - Su	Kingdom	Subnational	No	Presenting	, severe	1989	1991	
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Republic of Tanzania Subnational Yes Both severe 2007 2007 90-4. Tanzania Subnational Yes Both severe 2007 2007 90-4. International Centre for Eye Health (ICEH). Tanzania - Kigoma Rapid Assessment of Avoidable Blindness Survey 2011. Grootebroek, Netherlands: RAAB Repository, 2010. [Unpublished]. Tanzania Subnational Yes Both severe 2011 2011 [Unpublished]. United Republic of Tanzania Subnational Yes Both severe 2007 2007 Rapid Assessment of Avoidable Blindness Survey 2010. [Unpublished]. International Centre for Eye Health (ICEH). Tanzania - Kilimanjaro Rapid Assessment of Avoidable Blindness Survey 2011. [Unpublished]. United Republic of Tanzania Subnational Yes Both severe 2007 2007 Rototebroek, Netherlands: RAAB Repository. MSVI, blind, moderate severe 2017 2017 Rapzania - Kilimanjaro Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. United Republic of Tanzania Subnational Yes Both severe 2017 2017 Rototebroek, Netherlands: RAAB Repository. MSVI, blind, moderate severe 2017 2017 Rototebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Tanzania Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Tanzania Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Tanzania Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Tanzania Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Tanzania Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Tanzania Rapid Assessment of Avoidable Blindness Survey 2017. Grootebroek, Netherlands: RABB Repository. International Centre for Eye Health (ICEH). Tanzania Rap								
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							Surveill Summ. 1996;
							45(2): 1-14.
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				blind,	1		Blindness Survey 2015.
				mild,			Grootebroek,
				moderate			Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2015	2015	Repository.

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							International Centre for
							Eye Health (ICEH).
							Vietnam - Can Tho Rapid
							Assessment of Avoidable
				MSVI,			Blindness 2007.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2007	2007	Repository.
							International Centre for
							Eye Health (ICEH).
							Vietnam - Dien Bien
							Rapid Assessment of
				MSVI,			Avoidable Blindness
				blind,			Survey 2015.
				mild,			Grootebroek,
77' .4 NI	G-1 1	37	D. 4	moderate	2015	2015	Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2015	2015	Repository.
							International Centre for
							Eye Health (ICEH).
							Vietnam - Gia Lai Rapid
				MSVI,			Assessment of Avoidable Blindness 2007.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2007	2007	Repository.
v ict i vaiii	Submutional	103	Both	, severe	2007	2007	International Centre for
							Eye Health (ICEH).
							Vietnam - Gia Lai Rapid
				MSVI,			Assessment of Avoidable
				blind,			Blindness Survey 2015.
				mild,			Grootebroek,
				moderate			Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2015	2015	Repository.
							International Centre for
							Eye Health (ICEH).
							Vietnam - Gia Lai Rapid
							Assessment of Cataract
				MSVI,			Surgical Services 2002.
				blind,			Grootebroek,
				moderate	• • • •	• • • •	Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2002	2002	Repository.
					1		International Centre for
							Eye Health (ICEH).
					1		Vietnam - Ha Tay Rapid Assessment of Avoidable
				MSVI,			Blindness 2007.
				blind,	1		Grootebroek,
				moderate			Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2007	2007	Repository.
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							Eye Health (ICEH).
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							Assessment of Cataract
				MSVI,	1		Surgical Services 2000.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Viet Nam	Subnational	Yes	Both	, severe	2000	2000	Repository.
							International Centre for
				MSVI,			Eye Health (ICEH).
Viet Nam	Subnational	Yes	Both	blind,	2007	2007	Vietnam - Hai Phong

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Viet Nam Subnational Yes Both WSVI, blind, moderate , severe 2015 Zo15 Rapid Assessment of Avoidable Blindness Survey 2015. Grootebroek, Netherlands: RAAB Repository. International Centre for Eye Health (ICEH). Vietnam - Vung Tau Rapid Assessment of Avoidable Blindness Survey 2015. Grootebroek, Netherlands: RAAB Repository. WSVI, blind, moderate , severe Zo15 Zo15 Repository. Paudel P, Ramson P, Naduvilath T, Wilson D, Phuong HT, Ho SM, Giap NV. Prevalence of
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Phuong HT, Ho SM, Giap NV. Prevalence of
Giap NV. Prevalence of
vision impairment and
refractive error in school
children in Ba Ria - Vung
Tau province, Vietnam.
blind, Clin Experiment
moderate 2007, 2008, Ophthalmol. 2014;
Viet NamSubnationalNoBoth, severe2011201142(3.0): 217-26.Al-Khatib TK, Ahmed
AI-Kliatio TK, Aliffied AA, Hameed AS. Rapid
assessment of avoidable
blindness in amran and
MSVI, lahj governorates of
blind, Yemen. Sudan J
moderate Ophthalmol. 2017; 5(1):
Yemen Subnational Yes Both , severe 2009 2009 9–16.
International Centre for
MSVI, Eye Health (ICEH).
blind, Yemen - Amran Rapid
Yemen Subnational Yes Presenting , severe 2009 2009 Blindness 2009.
YemenSubnationalYesPresenting, severe20092009Blindness 2009.Lindfield R, Griffiths U,
Bozzani F, Mumba M,
Munsanje J. A Rapid
MSVI, Assessment of Avoidable
blind, Blindness in Southern
moderate Zambia. PLoS One.
Zambia Subnational Yes Presenting , severe 2010 2010 2012; 7(6): e38483.

							International Centre for
							Eye Health (ICEH).
							Zimbabwe - Manicaland
							Rapid Assessment of
							Avoidable Blindness
				MSVI,			Survey 2016.
				blind,			Grootebroek,
				moderate			Netherlands: RAAB
Zimbabwe	Subnational	Yes	Both	, severe	2014	2014	Repository.

 $Table \ 3. \ Characteristics \ of \ data \ sources \ used \ in \ the \ analysis \ that \ reported \ vision \ impairment \ from \ uncorrected \ presbyopia$

Country	Coverage	Rapid	Presenting or best- corrected	Core visual acuity level(s)	Year study started	Year study ended	Reference
				blind, mild, moderate, near			Taylor HR, Livingston PM, Stanislavsky YL, McCarty CA. Visual impairment in Australia: distance visual acuity, near vision, and visual field findings of the Melbourne Visual Impairment
				vision loss,	1992,	1994,	Project. Am J Ophthalmol. 1997;
Australia	Subnational	No	Presenting	severe	1994	1996	123(3): 328-37.
Brazil	Subnational	No	Presenting	near vision loss	1999	2000	Duarte WR, Barros AJD, Diasda-Costa JS, Cattan JM. [Prevalence of near vision deficiency and related factors: a population-based study]. Cad Saude Publica. 2003; 19(2): 551-9.
				MSVI, blind, moderate, near vision loss,			Cheng F, Shan L, Song W, Fan P, Yuan H. Distance- and near-visual impairment in rural Chinese adults in Kailu, Inner Mongolia.
China	Subnational	No	Both	severe	2009	2009	Acta Ophthalmol.

	1	1	П	1	1	1	
							2016; 94(4): 407- 13.
China	National	No	Draganting	near vision	2007	2010	Ministry of Health (China), National Center for Chronic and Noncommunicable Disease Control and Prevention (China), World Health Organization (WHO). China WHO Study on Global AGEing and Adult Health
China	National	No	Presenting	loss	2007	2010	2007-2010. He M, Abdou A,
China, India, Nepal, Niger, South Africa, United States of America	Subnational	No	Presenting	near vision loss	2008, 2011	2009, 2011	Naidoo KS, Sapkota YD, Thulasiraj RD, Varma R, Zhao J, Ellwein LB. Prevalence and correction of near vision impairment at seven sites in China, India, Nepal, Niger, South Africa, and the United States. Am J Ophthalmol. 2012; 154(1): 107- 116e1.
Eritrea	Subnational	Yes	Presenting	near vision loss	2010	2012	Fai Chan V, Mebrahtu G, Ramson P, Wepo M, Naidoo KS. Prevalence of refractive error and spectacle coverage in Zoba Ma'ekel Eritrea: a rapid assessment of refractive errror. Ophthalmic Epidemiol. 2013; 20(3): 131-7.
Ghana	National	No	Presenting	near vision loss	2007	2008	Ghana Health Service, Ministry of Health (Ghana), University of Ghana, World Health Organization (WHO). Ghana WHO Study on Global AGEing

		l	I	i			ond Adult Haalth
							and Adult Health
							2007-2008.
							International
							Institute for
							Population
							Sciences (India),
							World Health
							Organization
							(WHO). India
							WHO Study on
							Global Ageing and
							Adult Health
							2007. Geneva,
							Switzerland:
				near			World Health
			_	vision			Organization
India	National	No	Presenting	loss	2007	2007	(WHO), 2007.
							Marmamula S,
							Khanna RC,
							Narsaiah S,
							Shekhar K, Rao
							GN. Prevalence of
							spectacles use in
							Andhra Pradesh,
							India: rapid
							assessment of
							visual impairment
				near			project. Clin Exp
				vision			Ophthalmol. 2014;
India	Subnational	Yes	Presenting	loss	2011	2013	42(3): 227-34.
							Bastawrous A,
							Mathenge W,
							Foster A, Kuper
							H. Prevalence and
							predictors of refractive error
				near			
Kenya	Subnational	No	Presenting		2007	2008	
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							Mwaniki A,
							Schmidt E.
							Prevalence and
							causes of ocular
							morbidity in
							Mbeere District,
							Kenya. Results of
		I	1	l	Ì	Ì	
							a population-based
				near			survey. PLoS One.
	Subnational	No	Presenting	near vision	2011	2011	
Kenya	Subnational	No	Presenting	near vision loss	2007	2008	Schmidt E. Prevalence and causes of ocular morbidity in Mbeere District, Kenya. Results of

National Institute of Public Health (Mexico), World Health Organization (WHO), Mexico WHO Study on Global ACEing and Adult Health Organization (WHO), Mexico WHO Study on Global ACEing and Adult Health Organization (WHO), 2010. Geneva, Switzerland: World Health Organization (WHO), 2011. Lindfield R, Mahmoud A, Kimani K, Sanda S, Schmidt E. Ocular morbidity and health seeking behaviour in Kwara state, Nigeria: implications for delivery of eye care services. PLoS One. 2014; (WHO), 2011. White Presenting Ioss 2012 2012 clot128. Uche IV. Onwasigwe S. Chimidt E. Onwasigwe CN. Prevalence of presbyopia in a rural African near vision and the state of								
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							Bartholomew D,
							Deomansingh F,
							Fraser A, Maharaj
							V, Bridgemohan
							P, Sharma SC,
							Singh DP,
							Ramsewak SS,
							Bourne RRA. The
							prevalence and
				blind,			causes of
				mild,			blindness and
				moderate,			vision impairment
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and				loss,			Ophthalmol Vis
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							Kayongoya A,
							McHiwa W,
							Schwarzwalder
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							Centers for
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							Disease Control
							and Prevention
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	National	No	Presenting	loss	2001	2002	National Center for Health Statistics (NCHS), Centers for
	National	No	Presenting	loss	2001	2002	National Center for Health Statistics (NCHS), Centers for Disease Control
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	National	No	Presenting	blind, moderate, near	2001	2002	National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC). United States National Health and Nutrition Examination Survey 2003-2004. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC).
States of				blind, moderate, near vision loss			National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC). United States National Health and Nutrition Examination Survey 2003-2004. Hyattsville, United States: National Center for Health Statistics (NCHS), Centers for Disease Control and Prevention (CDC).
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							States National
							Health and
							Nutrition
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							Survey 2005-
							2006. Hyattsville,
							United States:
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							Statistics (NCHS),
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							Disease Control
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							(CDC), 2007.
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							2008. Hyattsville,
							United States:
							National Center
							for Health
				blind,			Statistics (NCHS),
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United				near			Disease Control
States of				vision			and Prevention
America	National	No	Presenting	loss	2007	2008	(CDC), 2009.

Table 4. PRISMA-P checklist

Section/topic # Checklist item	Section/topic # Checklist item	Section/topic # Checklist item [and location in original manuscript submission]	Reported on page # [of original manuscript submission]
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	13, 14
		The report is identified as a systematic review and meta-analysis in Abstract and Methods section.	
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	13
		This summary is given in the abstract.	
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known. The rationale is clearly stated in the Introduction section.	16
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS). The statement is clearly stated in the Introduction section.	16
METHODS Protocol and registration	5	Indicate if a review	16 & Amandin T 2
Protocol and registration	3	protocol exists, if and where it can be accessed	16 & Appendix Text 2

		(e.g., Web address), and, if available, provide registration information including registration number.	
		The systematic review strategy was published previously and the reference to this is given	
		[reference 5]. The full search strategy is given in Text 2 of the Appendix	
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	Appendix Text 2
		The eligibility criteria are given in Text 2 of the Appendix, section 2.1. 'Developing the Search Strategy'	
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	Appendix Text 2
		The information sources are given in Text 2 of the Appendix, section 2.1. 'Developing the Search Strategy' and Section 2.2 'Final Search Strategies'.	
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated. This is given in Text 2 of the Appendix Section 2.2	Appendix Text 2
Study colonian	9	'Final Search Strategies'.	18
Study selection	9	State the process for selecting studies (i.e., screening, eligibility,	10

	1	r	
		included in systematic	
		review, and, if	
		applicable, included in	
		the meta-analysis).	
		The study selection for	
		eligibility and screening	
		is given in the main	
		manuscript under	
	10	Methods.	1.0
Data collection process	10	Describe method of data	18
		extraction from reports	
		(e.g., piloted forms,	
		independently, in	
		duplicate) and any	
		processes for obtaining	
		and confirming data	
		from investigators.	
		Hom mvestigators.	
		This is stated in the	
		Methods section	
Data items	11	List and define all	18
		variables for which data	
		were sought (e.g.,	
		PICOS, funding sources)	
		and any assumptions and	
		simplifications made.	
		simplifications made.	
		This is stated in the	
		Methods section	
Risk of bias in individual	12	Describe methods used	18 & Appendix Fig 1
studies		for assessing risk of bias	
		of individual studies	
		(including specification	
		of whether this was done	
		at the study or outcome	
		level), and how this	
		information is to be used	
		in any data synthesis.	
		The principal risk of bias	
		with data sources	
	i	. 1 1 . 1 1 .	
		resided with data	
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		sources that were not population-based, the	
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		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss	
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		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss were not compatible with those of this study. These	
		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss were not compatible with those of this study. These were minimised by	
		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss were not compatible with those of this study. These were minimised by exclusion of full-text	
		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss were not compatible with those of this study. These were minimised by exclusion of full-text articles as shown in the	
		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss were not compatible with those of this study. These were minimised by exclusion of full-text articles as shown in the PRISMA flowchart	
		sources that were not population-based, the visual acuity measurement methods were unclear or where the visual acuity cut-offs for vision loss were not compatible with those of this study. These were minimised by exclusion of full-text articles as shown in the	

		explains the review by	
		the expert panel.	
Summary measures	13	State the principal	18
		summary measures (e.g., risk ratio, difference in	
		means).	
		,	
		We estimated crude and	
		age-standardised prevalence of blindness	
		and vision impairment	
		for 2020 and trends in	
		age-standardised	
		prevalence of vision impairment, including	
		analysis of uncertainties,	
		by age, sex, and	
		geographical region. This is detailed in the	
		Methods section	
Synthesis of results	14	Describe the methods of	18
		handling data and combining results of	
		studies, if done,	
		including measures of	
		consistency (e.g., I ²) for each meta-analysis.	
		each meta-analysis.	
		These are explained in	
		the final sections of the	
Risk of bias across	15	Methods section.	29
studies	13	Specify any assessment of risk of bias that may	29
		affect the cumulative	
		evidence (e.g.,	
		publication bias, selective reporting	
		within studies).	
		These are described under 'limitations of the	
		study' in the Discussion	
		section.	
Additional analyses	16	Describe methods of	N/A
		additional analyses (e.g., sensitivity or subgroup	
		analyses, meta-	
		regression), if done,	
		indicating which were pre-specified.	
		1F	
		These were not	
DECLIFE		performed.	
RESULTS Study selection	17	Give numbers of studies	Appendix Fig 1
	,	screened, assessed for	rr
		eligibility, and included	
		in the review, with reasons for exclusions at	
	1	reasons for exclusions at	

		1	
		each stage, ideally with a	
		flow diagram.	
		_	
		This is since as	
		This is given as	
		Appendix Fig 1 using a	
		PRISMA flowchart	
Study characteristics	18	For each study, present	Appendix Tables 2 and 3
		characteristics for which	
		data were extracted (e.g.,	
		study size, PICOS,	
		follow-up period) and	
		provide the citations.	
		The citations are	
		available in Tables 2 and	
		3 of the Appendix	
D: 1 C1: '41'	10	Present data on risk of	10
Risk of bias within	19		18
studies		bias of each study and, if	
		available, any outcome	
		level assessment (see	
		item 12).	
		1.011.12).	
		We were unable to	
		comment on this beyond	
		the decision to exclude	
		studies that carried a	
		significant risk of bias as	
		detailed in Point 12 of	
D 1: 0: 1: 1 1	20	the checklist.	36.
Results of individual	20	For all outcomes	Main text and appendix
studies		considered (benefits or	
		harms), present, for each	
		study: (a) simple	
		summary data for each	
		intervention group (b)	
		effect estimates and	
		confidence intervals,	
		ideally with a forest plot.	
		In terms of prevalence of	
I		In terms of prevalence of vision impairment and	
		vision impairment and	
		vision impairment and blindness, the tables in	
		vision impairment and blindness, the tables in both the manuscript and	
		vision impairment and blindness, the tables in both the manuscript and also the Appendix	
		vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty	
		vision impairment and blindness, the tables in both the manuscript and also the Appendix	
		vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty	
Synthesis of results	21	vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty intervals around all of	21-25
Synthesis of results	21	vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty intervals around all of the estimates Present results of each	21-25
Synthesis of results	21	vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty intervals around all of the estimates Present results of each meta-analysis done,	21-25
Synthesis of results	21	vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty intervals around all of the estimates Present results of each meta-analysis done, including confidence	21-25
Synthesis of results	21	vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty intervals around all of the estimates Present results of each meta-analysis done, including confidence intervals and measures	21-25
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Synthesis of results	21	vision impairment and blindness, the tables in both the manuscript and also the Appendix contain uncertainty intervals around all of the estimates Present results of each meta-analysis done, including confidence intervals and measures of consistency. These results are reported with 95%	21-25

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Risk of bias across	22	Present results of any	Appendix
studies		assessment of risk of	
		bias across studies (see	
		Item 15).	
		The statistical model	
		investigated the risk of	
		bias across studies and	
		an account of this can be	
		found in the Appendix	
Additional analysis	23	Give results of additional	N/A
		analyses, if done (e.g.,	
		sensitivity or subgroup	
		analyses, meta-	
		regression [see Item	
		16]).	
		- 1)	
		Not applicable	
DISCUSSION		Not applicable	
DISCUSSION Summary of avidence	24	Summarize the main	26.20
Summary of evidence	24		26-30
		findings including the	
		strength of evidence for	
		each main outcome;	
		consider their relevance	
		to key groups (e.g.,	
		healthcare providers,	
		users, and policy	
		makers).	
		This is summarised in	
		the discussions section.	
Limitations	25	Discuss limitations at	26-30
		study and outcome level	
		(e.g., risk of bias), and at	
		review-level (e.g.,	
		incomplete retrieval of	
		identified research,	
		reporting bias).	
		Toporting olds).	
		The limit of	
		The limitations are	
		discussed in the	
G 1 :	26	discussion section.	06.00
Conclusions	26	Provide a general	26-30 and 14-15
		interpretation of the	
		results in the context of	
		other evidence, and	
		implications for future	
		research.	
		Please see the discussion	
		and conclusions section	
		and Research in Context	
		panel	
FUNDING			
Funding	27	Describe sources of	13
		funding for the	
		systematic review and	
		other support (e.g.,	
1		supply of data); role of	

	funders for the systematic review.	
	These are given in the abstract section of the manuscript	

Table 5. Sources searched for the 2018 update

Database/information source	Interface/URL
From original review	
MEDLINE, MEDLINE In-Process, MEDLINE	Ovid SP
Daily and Epub Ahead of Print	
Embase	Ovid SP
WHOLIS	http://dosei.who.int/uhtbin/webcat
Additional sources for the 2018 update	·
SciELO	http://www.scielo.org/php/index.php?lang=en
Open Grey	http://www.opengrey.eu/

Table 6: Literature search results

Resource	Number of records identified
Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Ovid	14219
MEDLINE(R) Daily and Ovid MEDLINE(R) 1946 to Present	
Embase	23973
WHOLIS	79
OpenGrey	54
SciELO Citation Index (SCIELO)	709
Website searches	256
Total number of records retrieved	39290
Total number of records after deduplication and the removal of pre-1980 records	10092

Table 7. Adjustment factors for non-reference definition data.

	Logit-Transformed Beta Coefficient (95% CI)							
Data type*	Mild Vision Loss	Moderate Vision	Severe Vision Loss	Blindness				
		Loss						
Best-corrected	-0.83 (-1.51 to -0.12)	-1.11 (-2.27 to 0.06)	-0.94 (-2.30 to 0.42)	-0.15 (-0.19 to -0.15)				
visual acuity								
Uses rapid	0.09 (-0.88 to 1.06)	-0.06 (-1.23 to 1.11)	0.11 (-1.25 to1.48)	0.07 (-0.03 to 0.34)				
methodology								

^{*}Adjusted to reference definition of presenting visual acuity measured in a non-RAAB methodology study.

Table 8. Fixed effects for sex (study-level covariate), healthcare access and quality index (country-level covariate), and/or sociodemographic index that were included in Dismod models.

Model	Covariate	Exponentiated Coefficient
		(95% UI)
Mild vision impairment	Socio-demographic index	0.37 (0.19 - 0.73)
Mild vision impairment	Sex	0.83 (0.74 - 0.93)
Moderate vision impairment	Socio-demographic index	0.78 (0.67 - 0.92)
Moderate vision impairment	Sex	0.89 (0.86 - 0.92)
Severe vision impairment	Socio-demographic index	0.38 (0.31 - 0.49)
Severe vision impairment	Sex	0.85 (0.82 - 0.88)
Blindness	Socio-demographic index	0.38 (0.23 - 0.61)
Blindness	Healthcare access & quality index	0.98 (0.98 - 0.99)
Blindness	Sex	0.90(0.87 - 0.94)
Presbyopia	Socio-demographic index	0.56 (0.33 - 0.89)
Presbyopia	Sex	0.91 (0.44 – 0.98)

Table 9. Health state descriptions and accompanying disability weight.

Health state name	Health state description	Disability weight	
Distance vision, mild loss	This person has some difficulty with distance vision, for example reading signs, but no other problems with eyesight.	0.003 (0.001- 0.007)	
Distance vision, moderate loss			
Distance vision, severe loss	activities some emotional impact (for example worry) and some		
Distance vision blindness	This person is completely blind, which causes great difficulty in some daily activities, worry and anxiety, and great difficulty going outside the home without assistance.	0.187 (0.124–0.260)	
Near vision loss	This person has difficulty seeing things that are nearer than 3 feet, but has no difficulty with seeing things at a distance.	0.011 (0.005–0.02)	

Figure 1. PRISMA flowchart

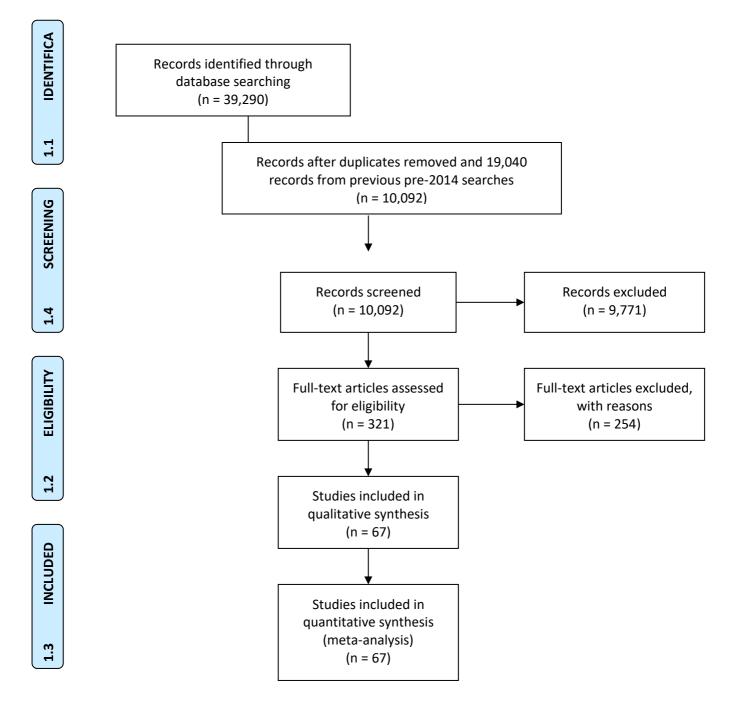
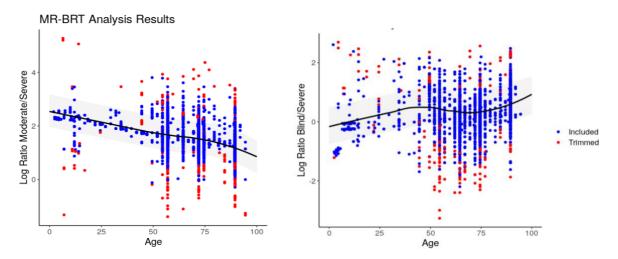


Figure 2. Meta-regression results to split mixed severity data into single severity data points. (Dots display input data that was either included or trimmed in the model; the model fit is displayed as the black line and uncertainty as grey shading).



APPENDIX 2: SUPPLEMENTARY RESULTS

Contents

Table 1A. Crude prevalence of moderate and severe vision impairment (MSVI) and blindness in 2020, globally, by region and by sex

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Table 3B. Number of persons affected and age-standardised prevalence of mild vision impairment and vision impairment from uncorrected presbyopia in 2020 and change since 1990 in adults aged 50 years and older.

Table 4. Number of persons and crude prevalence of persons blind, with MSVI, with mild VI, and vision impairment from uncorrected presbyopia in 1990

Table 5A. Forecasted number of persons and age-standardized prevalence of moderate and severe vision impairment and blindness in 2050 by region

Table 5B. Forecasted number of persons and age-standardized prevalence of mild vision impairment and vision impairment from uncorrected presbyopia in 2050 by region

Figure 1: Data Sources used in the analysis from RAAB (Map A) and non-RAAB (Map B) studies.

Figure 2A-D. Forecast of numbers of people affected by blindness, moderate and severe vision impairment, mild vision impairment and vision impairment from uncorrected presbyopia to 2050- by region.

Table~1A.~Crude~prevalence~of~moderate~and~severe~vision~impairment~(MSVI)~and~blindness~in~2020,~globally,~by~region~and~by~sex

	Moderate and severe vision impairment							Blindness				
Region	Male prevalence per 1,000 (95% UI)	Male cases x100,000 (95% UI)	Female prevalence per 1,000 (95% UI)	Female cases x100,000 (95% UI)	Both sex prevalence per 1,000 (95% UI)	Both sex cases x100,000 (95% UI)	Male prevalence per 1,000 (95% UI)	Male cases x100,000 (95% UI)	Female prevalence per 1,000 (95% UI)	Female cases x100,000 (95% UI)	Both sex prevalence per 1,000 (95% UI)	Both sex cases x100,000 (95% UI)
Andean Latin	39-8	12-9	45-6	14-7	42.7	27-6	5.20	1-68	5.61	1.81	5.41	3.49
America	(35-9-43-6)	(11-6-14-1)	(41.5-50.1)	(13-4-16-2)	(38·8–46·7)	(25·1-30·2)	(4.44-5.94)	(1.43-1.92)	(4.82-6.40)	(1.55-2.06)	(4.66-6.16)	(3.01-3.98)
	24-2	3-51	26-7	3·99 (3·60–4·35)	25.5	7-50 (6-79-8-21)	2-15	0.312 (0.266-0.358)	2.52	0.376 (0.322-0.433)	2·34 (2·00–2·68)	0·689 (0·591–0·788)
Australasia	(21·9–26·6) 29·9	(3·18–3·87)	(24·1–29·2) 35·9	(3·60–4·33) 8·59	(23·0–27·9)	15.5	(1.83–2.47)	1.27	(2·16–2·90) 5·54	1:33	5.50	2:60
Caribbean	(27:0-32:7)	(6.28–7.61)	(32-6-39-4)	(7.80–9.44)	(29-8-36-1)	(14·1–17·0)	(4-63-6-20)	(1-08-1-44)	(4.72–6.38)	(1-13–1-53)	(4.68–6.26)	(2.21-2.96)
carmooan	26.4	12:3	36-0	17:2	31.2	29-5	2.91	1.36	3-45	1-65	3.18	3:01
Central Asia	(23·7-29·3)	(11·1–13·7)	(32·3–39·9)	(15-4-19-1)	(28·1-34·6)	(26-6-32-7)	(2.47-3.33)	(1.16-1.56)	(2.94-3.95)	(1.40-1.89)	(2.71-3.63)	(2.56-3.44)
	27-4	15-2	41.6	24-3	34-7	39-5	2.50	1.39	3-23	1.89	2.88	3.27
Central Europe	(24·3-30·8)	(13-5-17-1)	(36-6-46-6)	(21-4-27-2)	(30-6-38-8)	(34-9-44-2)	(2·14-2·84)	(1·19–1·57)	(2.78-3.70)	(1.62-2.16)	(2.46-3.28)	(2.80-3.73)
Central Latin	33-6	43-7	40-4	54-7	37-0	98-4	4-61	6.00	4.91	6-65	4.76	12.7
America	(30·3-36·7)	(39-5-47-8)	(36-5-44-3)	(49-5-60-0)	(33-5-40-6)	(89-1-108)	(4.00-5.17)	(5.22-6.74)	(4.27-5.51)	(5.78-7.47)	(4·15–5·34)	(11.0-14.2)
Central Sub-	14-6	9-61	15-8	10-5	15-2	20-1	2.00	1.32	2.34	1.56	2-17	2.87
Saharan Africa	(13·1–16·3)	(8-63-10-7)	(14-2-17-6)	(9-47-11-7)	(13-7-16-9)	(18-1-22-3)	(1.73-2.29)	(1-13-1-50)	(2.01-2.66)	(1.34–1.77)	(1.87-2.47)	(2·47–3·27)
Tree Asia	30.2	231	41.9	308	35-9	539	5.40	41.3	6.74	49-6	6·06 (5·26–6·90)	90-9
East Asia	(26·8–33·9) 39·2	(205–259) 38·0	(37·2–46·9) 65·0	(274–345) 72·8	(31-9-40-3)	(478–604) 111	(4·69–6·16) 2·94	(35·9–47·1) 2·85	(5·84–7·66) 4·51	(43·0–56·3) 5·04	(5.26-6.90)	(78·9–103) 7·90
Eastern Europe	(34.9–44.0)	(33-9-42-6)	(57-8-72-3)	(64-7-81-0)	(47-2-59-1)	(98-6-123)	(2.55–3.31)	(2.47–3.21)	(3-95-5-10)	(4.42–5.71)	(3·30–4·26)	(6.90–8.90)
Eastern Sub-	15-1	32-1	17-6	37-9	16-4	70-1	4-19	8-90	5.01	10-8	4.60	19-7
Saharan Africa	(13-8-16-6)	(29-3-35-2)	(16-0-19-3)	(34·6-41·5)	(14.9–17.9)	(63-8-76-7)	(3.70-4.68)	(7.87–9.96)	(4.42-5.61)	(9.52–12.1)	(4.06-5.14)	(17-4-22-0)
High-income Asia	25.8	23-7	31-4	29-7	28-6	53-4	2.78	2.55	2.95	2.80	2.87	5-35
Pacific	(23·3-28·3)	(21-3-26-0)	(27-9-34-7)	(26-4-32-9)	(25·7-31·4)	(47-9-58-6)	(2.43-3.12)	(2.23-2.86)	(2.59-3.30)	(2.46-3.14)	(2.52-3.20)	(4.70-5.97)
High-income	17-8	32-2	22-6	42-1	20-2	74-4	1-79	3-24	2.08	3.88	1-94	7-12
North America	(16·2-19·4)	(29-3-35-2)	(20-4-24-7)	(38-1-46-0)	(18-3-22-0)	(67-5-81-1)	(1.57-2.01)	(2.84-3.65)	(1.82-2.34)	(3.40-4.37)	(1.70-2.18)	(6.26-8.01)
North Africa and	32-3	106	37-0	113	34-6	218	4-48	14-6	5.34	16-3	4.90	30-9
Middle East	(29·4–35·3)	(96·1–116)	(33·7–40·6)	(103–124)	(31·4–37·8)	(199–239)	(3-86-5-10)	(12-6-16-7)	(4.57-6.08)	(13.9–18.5)	(4·20–5·57)	(26·5-35·2)
	28.0	1-94	29-2	1.91	28-6	3-85	2.65	0.183	3.21	0.210	2.92	0.393
Oceania	(25·4–31·0)	(1.76–2.14)	(26-4-32-2)	(1.73-2.11)	(25-9-31-5)	(3-49-4-25)	(2·28-3·03) 5·90	(0.157-0.209)	(2.75-3.65)	(0.180-0.239)	(2.51-3.31)	(0.338-0.446)
South Asia	47·7 (42·8–53·0)	449 (403–498)	57·0 (51·2–63·3)	514 (461–570)	52·3 (46·9–58·0)	962 (864–1070)	(5.13–6.62)	55·5 (48·3-62·3)	7·09 (6·15–8·00)	63·9 (55·4–72·0)	6·48 (5·63–7·29)	119 (104–134)
South Asia	38:2	130	46-4	158	42:3	288	6-91	23-5	10-6	36-1	8.75	59-5
Southeast Asia	(35·1-41·5)	(119–141)	(42-9-50-0)	(146–170)	(39-0-45-7)	(265-311)	(6.02-7.77)	(20-4-26-4)	(9.19–11.9)	(31·3–40·6)	(7.58-9.82)	(51-6-66-8)
Southern Latin	28.7	9-45	34-0	11.7	31-4	21-2	2:23	0.734	2.46	0-849	2.35	1.58
America	(26·0-31·6)	(8-56-10-4)	(30-8-37-0)	(10-6-12-8)	(28·5-34·3)	(19-2-23-1)	(1.91-2.53)	(0-629-0-833)	(2.13-2.82)	(0.735-0.971)	(2.02-2.67)	(1.36-1.80)
Southern Sub-	17-7	6-99	20-7	8-60	19-3	15-6	5-33	2.10	6-43	2-67	5-90	4.77
Saharan Africa	(16·1–19·6)	(6-33-7-71)	(18-8-22-7)	(7.81-9.42)	(17-5-21-1)	(14-1-17-1)	(4-64-5-94)	(1.83-2.34)	(5.60-7.19)	(2-32-2-98)	(5·13–6·58)	(4.15-5.32)
Tropical Latin	41.9	45-9	50-1	57-4	46-1	103	7-40	8-11	8.50	9.73	7-96	17-8
America	(37-9-45-8)	(41.5-50.2)	(45·4–54·9)	(52·0-62·8)	(41.7–50.4)	(93-5-113)	(6.45-8.26)	(7-06-9-05)	(7-45-9-49)	(8-53-10-9)	(6.98-8.89)	(15·6–19·9)
Western For	31.4	67-4	39-1	86-8	35-3	154	2.77	5-95	4-23	9-39	3.51	15-3
Western Europe	(28·4–34·4)	(61-0-73-8)	(35·0–42·9)	(77-8-95-3)	(31-7-38-6)	(139–169)	(2·39–3·16)	(5·13-6·79)	(3.63-4.86)	(8.06–10.8)	(3.03-4.03)	(13·2–17·6)
Western Sub- Saharan Africa	19·2 (17·4–21·1)	44·7 (40·5–49·1)	22·4 (20·3–24·6)	54·0 (48·8–59·4)	20.8 (18.9–22.9)	98·6 (89·4–108)	4·79 (4·21–5·38)	11·1 (9·78–12·5)	5·13 (4·50–5·75)	12·4 (10·9–13·9)	4·96 (4·37–5·57)	23·5 (20·7–26·4)
Sanaran Africa	33.4	1320	41-5	1630	37-4	2950	4-90	194	6-08	239	5-49	433
Global	(30-3-36-8)	(1200–1460)	(37-5-45-6)	(1470–1790)	(33-9-41-2)	(2670-3250)	(4.28-5.48)	(169–217)	(5·30–6·83)	(208-268)	(4.76-6.13)	(376–484)

Table~1B.~Crude~prevalence~of~mild~vision~impairment~and~vision~impairment~from~uncorrected~presbyopia~in~2020,~globally,~by~region~and~by~sex

			Mild vision	Mild vision impairment							yopia	
Region	Male prevalence per 1,000 (95% UI)	Male cases x100,000 (95% UI)	Female prevalence per 1,000 (95% UI)	Female cases x100,000 (95% UI)	Both sex prevalence per 1,000 (95% UI)	Both sex cases x100,000 (95% UI)	Male prevalence per 1,000 (95% UI)	Male cases x100,000 (95% UI)	Female prevalence per 1,000 (95% UI)	Female cases x100,000 (95% UI)	Both sex prevalence per 1,000 (95% UI)	Both sex cases x100,000 (95 % UI)
Andean Latin	30-9	10-0	35-4	11-4	33-2	21.4	40-8	13.2	44-0	14-2	42.4	27.4
America	(27.8-34.4)	(8.99-11.1)	(31-9-39-3)	(10-3-12-7)	(29-9-36-7)	(19·3–23·7)	(29·3–54·5)	(9-48-17-6)	(31-6-59-1)	(10-2-19-1)	(30-7-56-9)	(19-8-36-8)
Australasia	12·8 (11·5–14·3)	1.86	16·2 (14·4–18·0)	2.41 (2.14-2.68)	14·5 (13·0–16·1)	4·27 (3·82–4·75)	9·44 (6·38–13·4)	1·37 (0·928–1·95)	12·5 (8·32–17·7)	1.87	11·0 (7·42–15·4)	3·24 (2·19–4·54)
Australasia	33.7	7-84	39-3	9.42	36.6	17-3	60.4	14-1	53.9	12-9	57:1	26.9
Caribbean	(30·3-37·4)	(7.05-8.71)	(35-3-43-7)	(8.46-10.5)	(32.9-40.6)	(15-5-19-2)	(43.8-81.0)	(10.2-18.8)	(38·8–71·8)	(9-29-17-2)	(41.4-76.9)	(19-5-36-3)
	20-8	9.73	25.7	12-3	23-3	22.0	43-5	20.4	62.8	30.0	53-3	50-4
Central Asia	(18.8-23.2)	(8.79-10.9)	(23·1-28·6)	(11-1-13-7)	(21.0-25.9)	(19-9-24-4)	(31-0-58-6)	(14-5-27-4)	(44.6-83.5)	(21-3-39-9)	(38.0-71.0)	(35.9-67.1)
	15.2	8-40	19-6	11-4	17-4	19-8	87-6	48-6	125	73.3	107	122
Central Europe	(13.5–16.9)	(7.48-9.38)	(17-4-21-9)	(10-1-12-8)	(15-5-19-5)	(17-7-22-2)	(63-1-118)	(35-0-65-6)	(89-6-169)	(52-4-98-5)	(76-8-145)	(87-4-165)
Central Latin America	31.6	41·2 (37·0–45·6)	36.9	49·9 (44·8–55·4)	34·3 (30·9–38·1)	91-1	45·5 (32·6–60·9)	59-2	57-2	77.4	51.4	137
Central Sub-	(28·4-35·0) 26·4	17.3	31.7	21.1	29-1	(82·0–101) 38·4	31.7	(42·5–79·4) 20·8	(41·3–75·7) 39·6	(56·0–103) 26·3	(37·2–68·5)	(98·8–182) 47·1
Saharan Africa	(23.5-29.9)	(15.4–19.6)	(28·4–35·8)	(18-9-23-8)	(25.9-32.8)	(34-3-43-3)	(22·2–42·7)	(14-6-28-0)	(29.0–53.0)	(19·3–35·3)	(25.7–47.7)	(34.0-63.1)
	34-1	260	46-4	341	40-1	601	96-9	740	122	896	109	1640
East Asia	(30-2-38-2)	(231-292)	(41.0-51.9)	(301-382)	(35.5-44.9)	(533-672)	(69-4-128)	(530-979)	(86-8-161)	(638-1180)	(78-1-144)	(1170-2160)
	21.0	20-4	29.5	33-0	25-6	53-4	94-5	91-6	151	169	125	260
Eastern Europe	(18-9-23-5)	(18·3-22·8)	(26·2-32·9)	(29-3-36-9)	(22-9-28-5)	(47-7-59-6)	(67-6-125)	(65-5-122)	(109-199)	(123-222)	(89-8-165)	(188-344)
Eastern Sub-	24.4	51-8	28.5	61-6	26.5	113	37-4	79-4	43.2	93-1	40.3	173
Saharan Africa	(21.8–27.5)	(46·3–58·5)	(25·6–32·1)	(55·1-69·2)	(23·7–29·9)	(101–128)	(27·8–47·5)	(59-2-101)	(32·3–54·9)	(69-7-118)	(30·2–51·0)	(129-218)
High-income Asia Pacific	43·6 (38·4–48·8)	40·0 (35·3-44·8)	61·5 (54·1-68·7)	58·3 (51·3-65·2)	52·7 (46·4–58·8)	98·4 (86·7–110)	8·98 (5·92–12·8)	8·24 (5·43–11·8)	12·2 (8·37–17·4)	11·6 (7·94–16·5)	10·6 (7·14–15·1)	19·8 (13·3-28·1)
High-income	12.9	23-3	15:1	28-1	14-0	51.4	13.2	23.8	13.6	25.5	13-4	49-3
North America	(11.5-14.3)	(20.8-25.9)	(13.4–16.7)	(25.0-31.2)	(12·4–15·5)	(45.8–57.0)	(9-22-17-8)	(16·7-32·2)	(9.72–18.7)	(18·1-34·9)	(9-46-18-1)	(34.8-66.8)
North Africa and	21.6	70-6	24-2	73-6	22.8	144	21.2	69-3	24.7	75.3	22.9	145
Middle East	(19·6-24·1)	(64.0-78.7)	(21-9-26-8)	(66.7-81.7)	(20·7-25·4)	(131-160)	(14.9-28.7)	(48-6-94-0)	(17-6-33-1)	(53-7-101)	(16.3-30.8)	(103-195)
	26.0	1-80	30-0	1.97	28-0	3.76	27-9	1-93	32.0	2.10	29-9	4.03
Oceania	(23·3-29·1)	(1.61-2.01)	(27-33-6)	(1.77-2.20)	(25·1-31·3)	(3-38-4-21)	(19-6-37-9)	(1.36-2.62)	(22·5-43·1)	(1-47-2-82)	(21·1-40·4)	(2-84-5-44)
South Asia	29·9 (26·9–33·3)	281 (253-313)	35·5 (32·0–39·6)	320 (288–356)	32·6 (29·4–36·3)	601 (541–669)	83·3 (60·9–109)	783 (573–1030)	98·3 (71·7–128)	885 (646–1150)	90·6 (66·3–118)	1670 (1220-2180)
South Asia	41.1	140	48.6	166	44-9	305	36.7	124	50-1	171	43.4	295
Southeast Asia	(37-2-45-7)	(126–155)	(44-0-53-6)	(150–183)	(40-6-49-7)	(276–338)	(26-0-50-0)	(88-1-170)	(36-0-67-3)	(122-229)	(31.0-58.5)	(211-398)
Southern Latin	16.8	5.52	21-4	7-36	19-1	12-9	6-31	2-08	8-17	2-82	7-26	4-89
America	(15·1-18·6)	(4.96-6.13)	(19-1-23-9)	(6.58-8.22)	(17-2-21-3)	(11-6-14-4)	(4-22-9-05)	(1.39-2.98)	(5.52-11.8)	(1-90-4-07)	(4-94-10-3)	(3-32-6-96)
Southern Sub-	27.3	10.8	34.9	14-5	31.2	25.3	102	40-0	134	55-6	118	95.7
Saharan Africa	(24·7-30·4)	(9.73-12.0)	(31.6-38.8)	(13-1-16-1)	(28·2-34·7)	(22-9-28-1)	(75-9-130)	(29-9-51-2)	(101-169)	(41.7-70.2)	(88-1-150)	(71-3-121)
Tropical Latin	34.2	37.5	41.4	47-4	37-9	84-9	36-3	39-8	42.5	48-7	39-5	88-4
America	(30-8-38-1)	(33·7-41·7)	(37-1-46-1)	(42.5-52.8)	(34-0-42-2)	(76-2-94-6)	(25-6-48-9)	(28-0-53-5)	(30·2–57·9)	(34-6-66-3)	(27.9-53.5)	(62-5-120)
Western Europe	21·4 (19·0–23·8)	45·9 (40·7–51·0)	28·5 (25·1–31·8)	63·2 (55·8–70·7)	25·0 (22·1–27·9)	109 (96·4–122)	8·85 (5·82–12·4)	19·0 (12·5–26·5)	11·7 (7·89–16·6)	25·9 (17·5–36·8)	10·3 (6·90–14·5)	44·9 (30·1–63·4)
Western Sub-	30-4	70.6	37.1	89-3	33-8	160	40.5	94-0	43-9	106	42.2	200
Saharan Africa	(27-2-34-1)	(63-2-79-3)	(33-3-41-4)	(80-3-99-8)	(30-3-37-8)	(144–179)	(29·6-52·4)	(68-8-122)	(32·2–57·2)	(77-6-138)	(30.9-54.8)	(146-260)
	29-2	1160	36-2	1420	32.7	2580	58-0	2290	71-3	2800	64-6	5100
Global	(26·4-32·3)	(1040-1280)	(32.7-40.0)	(1280-1570)	(29.5-36.2)	(2330-2850)	(42-1-76-4)	(1670-3020)	(52-1-92-9)	(2050-3650)	(47-1-84-5)	(3710-6670)

Table 2. Crude prevalence of blindness, moderate and severe vision impairment, mild vision impairment and vision impairment from uncorrected presbyopia in 2020, globally, by age group

Age group	Mild vision impairment: prevalence per 1,000 (95 % UI)	Moderate and severe vision impairment: prevalence per 1,000 (95% UI)	Blindness: prevalence per 1,000 (95% UI)	Vision impairment due to uncorrected presbyopia: prevalence per 1,000 (95 % UI)
	13.8	3.86	0.350	
Early Neonatal	(8.55–20.6)	(2·44–5·99)	(0.194-0.501)	
	14.0	3.95	0.352	
Late Neonatal	(8.78–20.8)	(2.54–6.05)	(0.197-0.503)	
Post Neonatal	16·3 (11·8–22·4)	5·11 (3·75–7·08)	0·384 (0·231–0·534)	
Post Neonatai	23:3	9.17	0.540	
1 to 4	(18·5–29·1)	(7.18–11.5)	(0.387-0.712)	
AVECTAL TOTAL	25.7	12-2	0.745	
5 to 9	(19·8–33·0)	(9.31–15.6)	(0.547-0.974)	
10 to 14	22·4 (17·2–28·5)	12·8 (9·79–16·5)	0·910 (0·703–1·15)	
101014	18:5	12.9	1.06	
15 to 19	(14·3–23·6)	(9-96-16-3)	(0.836-1.32)	
AME (1997)	15:3	12-9	1.19	
20 to 24	(11.9–19.6)	(9.78–16.5)	(0.957–1.49)	
25 to 29	13·9 (10·9–17·5)	12·7 (9·91–15·7)	1·37 (1·11–1·68)	
201027	13.8	13.1	1.67	11.4
30 to 34	(10·3–18·2)	(10·1-16·2)	(1.36-2.01)	(6.86–18.0)
	15.9	16-3	2.23	24.0
35 to 39	(12·1–19·9)	(12·7–20·3)	(1.79–2.70)	(14·2–39·0)
40 to 44	19·5 (14·9–25·5)	21·8 (17·0–27·9)	3·19 (2·52–3·99)	49·1 (31·8–72·1)
	24.8	30-9	4.46	86.5
45 to 49	(19·2–31·3)	(24.3–38·7)	(3.58-5.82)	(54·0–131)
FO . F4	32.4	44.3	6.24	130
50 to 54	(24·2–42·9) 45·7	(34·6–56·2) 67·1	(4·78–7·90) 8·38	(84·1–186) 179
55 to 59	(34-9-58-9)	(54·4–83·5)	(6.72–10.4)	(111–260)
	63.4	95.7	12-2	224
60 to 64	(48·1–81·7)	(76·8–122)	(9.75–15.1)	(146–323)
65 to 69	90·2 (70·2–112)	130 (106–157)	19·0 (14·9–24·2)	269 (172–385)
03 10 09	117	165	27.8	295
70 to 74	(88·7–147)	(133–201)	(22.2–34·7)	(193–419)
1202	141	198	37-6	317
75 to 79	(113–169)	(165–234)	(29·6–46·8)	(209–476)
80 to 84	158 (122–204)	226 (183–279)	46·5 (37·0–56·9)	329 (216–492)
\$\$\text{\$\texititt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texititit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\texititit{\$\text{\$\texititit{\$\t	167	252	56.6	319
85 to 89	(134–203)	(213–297)	(45·3–69.5)	(207–467)
00 + 04	174	275	68.6	296
90 to 94	(133–217) 190	(229–329) 299	(55·5–85·9) 91·5	(182–437) 269
95 plus	(145–244)	(244–368)	(73·3–115)	(146–411)
***************************************	32.7	37.4	5.49	64.6
All-age	(29·5–36·2)	(33·9–41·2) 109	(4.76–6.13)	(47·1–84·5)
Age 50+	75·3 (64·3–85·9)	(96·1–123)	17-7 (15·1–20·3)	221 (155–296)
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Table 3A. Number of persons affected and age-standardised prevalence of moderate and severe vision impairment (MSVI) and blindness in 2020 and change since 1990 in adults aged 50 years and older.

		Moderate and seve	re vision impairment		Blir	dness		
Region	Cases in 1000s (95% UI)	% change 1990 to 2020 (95% UI)	Age-standardized rate per 1,000 (95% UI)	% change 1990 to 2020 (95% UI)	Cases in 1000s (95% UI)	% change 1990 to 2020 (95% UI)	Age-standardized rate per 1,000 (95% UI)	% change 1990 to 20. (95% UI)
Andean Latin America	1620	189-1	130	-4·1	275	79-7	22.0	-43·3
	(1440–1830)	(181-3-197-4)	(115–146)	(-6·5—1·7)	(229–323)	(70-9-87-1)	(18·3–25·9)	(-46·041·3)
Andrean Laun America	472	137-0	40-7	1-6	57-5	94.0	4.87	-19-7
Australasia	(413–532)	(125-6-149-0)	(35-5-46-0)	(-3-3-6-3)	(48·4–67·3)	(83-8-105.0)	(4·10–5·68)	(-23·2—16·1)
Caribbean	967	106·6	82·2	-3·7	205	53-9	17·4	-30.0
	(847–1090)	(102·5–110·7)	(72·0–92·9)	(-5·3—1·9)	(169–241)	(50-3-57-6)	(14·4–20·5)	(-31·328·8)
Central Asia	1930	57·0	120	-4·2	222	17-2	14·9	-26·6
	(1680–2220)	(53·8–60·4)	(105–135)	(-5·9—2·7)	(183–261)	(13-7-20-6)	(12·5–17·5)	(-28·025·5)
Central Europe	3270	48·1	67·8	-2·8	279	23·3	5·79	-22·8
	(2830–3740)	(44·1–52·3)	(58·8–77·1)	(-3·8—1·8)	(236–323)	(19·5–27·4)	(4·91–6·68)	(-24·021·5)
Central Latin America	5760	197-3	107	-7·5	970	97-6	18·3	-41·0
	(5050-6510)	(192-8–202-2)	(94·1–121)	(-8·5—6·6)	(826–1110)	(93-7-102.0)	(15·6–21·1)	(-41·840·1)
Central Sub-Saharan Africa	1030	131-2	99-4	-3·2	167	80-4	17·8	-26·6
	(885–1200)	(124-1-138-9)	(86-8-113)	(-5·7-0·2)	(137–195)	(74-6-87-6)	(14·8–20·8)	(-28·823·8)
East Asia	44900	206-7	94·9	8·5	7260	105.0	15·6	-29·0
	(39100-51200)	(200-1-212-8)	(83·0–107)	(7·1–9·9)	(6130–8400)	(97·4–114.0)	(13·2–18·0)	(-32·0—25·7)
Eastern Europe	8940	25-0	115	-2·3	682	-0·7	8·79	-27·4
	(7810–10200)	(22-7–27-3)	(100–130)	(-3·3—1·3)	(587–778)	(-3·4–2·3)	(7·59–10·0)	(-28·5—26.4)
Eastern Sub-Saharan Africa	3600	105-7	112	-7·2	1200	62-4	40·0	-27·0
	(3190–4080)	(102-2-109-0)	(100–125)	(-8·56·1)	(1020–1390)	(59-7-65-1)	(33·8–46·1)	(-28·1—25·8)
High-income Asia Pacific	4080	154·7	38.6	1·6	450	84·7	4·24	-26·8
	(3580–4570)	(143·5–166·7)	(33-9-43-4)	(0·7–2·5)	(392–512)	(73·9–96·2)	(3·68–4·78)	(-28·2—25·5)
High-income North America	4750	83-8	32·8	-1·4	591	88·5	3·98	-0·5
	(4180–5340)	(81-6-86-0)	(28·8–37·0)	(-2·1—0·6)	(512–675)	(85·8–91·7)	(3·45-4·52)	(-1·3·0·3)
North Africa and Middle East	12000	153-0	130	-7·1	2350	58·2	27-0	-43.0
	(10500–13600)	(147-8–158-6)	(115–147)	(-8·9—5·0)	(1940–2740)	(54.0–62·6)	(22·2–31·7)	(-44·1—41·9)
Oceania	222	126-8	173	-1·8	23·1	74·2	19·8	-24·9
	(193–253)	(119-4-134-0)	(154–193)	(-4·4-0·9)	(19.0-27·4)	(68·7–80.0)	(16·4–23·3)	(-26·8—22·8)
South Asia	68800	127-6	229	-12-6	9580	44·7	35·3	-47·6
	(60100-79000)	(122-6-133-4)	(203–260)	(-13-8—11-6)	(8170–11000)	(40·1–49.0)	(30·2–40·7)	(-48·4—46.9)
Southeast Asia	19800	140-7	154	-7·7	4550	60·6	37·2	-40·1
	(18100–21800)	(134-1-148-2)	(141–168)	(-10·0—5·2)	(3860-5240)	(58.0–63·1)	(31·8–42·6)	(-41·1—39·2)
Southern Latin America	1240	91·2	65-9	-2·1	125	44-9	6·58	-28·7
	(1090–1400)	(84·9–98·1)	(58-0-74-1)	(-5·2-1·0)	(105–147)	(39-5-50-3)	(5·57–7·69)	(-30·8—26·7)
Southern Sub-Saharan Africa	870	110-8	72·7	-3·0	353	52·9	30·9	-29·0
	(763992)	(108-0-113-4)	(63·9–81·9)	(-4·31·9)	(302–407)	(49.0–56·9)	(26·3–35·5)	(-30·827·3)
Tropical Latin America	5710	179-6	106	-5·5	1430	124.0	27.1	-28·3
	(5000–6460)	(174-8-184-5)	(93·0–119)	(-6·54·5)	(1230–1640)	(119.0–129.0)	(23·2–31·0)	(-29·1—27·5)
Western Europe	11100	62·8	51·5	-2·8	1350	34.0	6·01	-23·9
	(9690–12400)	(59·2–66·3)	(45·2–57·9)	(-3·8—1·7)	(1150–1580)	(28·9–40·1)	(5·13–6·95)	(-25.1—22·9)
Western Sub-Saharan Africa	5530	113-2	144	-2·9	1490	56·9	42·2	-27·8
	(4830–6360)	(110-6-115-9)	(127–163)	(-3·6—2·1)	(1240-1740)	(54·7–59·1)	(35.0–49·2)	(-28·7—26·8)
Global	206000	128·0	112	2·5	33600	62·4	18·5	-28·5
	(182000-233000)	(125·1–131·0)	(99-0-126)	(1·9-3·2)	(28600-38500)	(59·6-65·0)	(15·7–21·1)	(-29·4—27·7)

Table 3B. Number of persons affected and age-standardised prevalence of mild vision impairment and vision impairment from uncorrected presbyopia in 2020 and change since 1990 in adults aged 50 years and older.

		Mild vision	impairment		Vision impairment due	to uncorrected presbyopia		
11200	And the second second	% change 1990 to 2020	Age-standardized rate per	% change 1990 to 2020		% change 1990 to 2020	Age-standardized rate per	
Region	Cases in 1000s (95% UI)	(95% UI)	1,000 (95% UI)	(95% UI)	Cases in 1000s (95% UI)	(95% UI)	1,000 (95% UI)	(95% UI)
	1180	168-0	94-4	-10-1	2410	186-0	192	4-4
Andean Latin America	(1010-1350)	(161-0-177-0)	(81-1-108)	(-12-27-5)	(1690-3290)	(169-0-204-0)	(135-262)	(-9-51-8)
	272	129-0	23-1	-1-8	298	68-1	26.4	-24.1
Australasia	(231-314)	(119-0-141-0)	(19-6-26-5)	(-5-7-3-3)	(196-422)	(29-8-104-0)	(17-1-37-2)	(-42-47-7)
	1060	87-1	90-0	-12-2	2340	97-6	199	-7-1
Caribbean	(908-1210)	(83-1-91-1)	(77-2-103)	(-1410-6)	(1640-3180)	(87.7-107.0)	(139.2-270)	(-11-62-7)
	941	51-1	58-2	-7-8	4360	58-6	268	-3-8
Central Asia	(797–1080)	(47-1-54-7)	(49-8-66-3)	(-9-46-1)	(3030-5950)	(51-3-66-7)	(189-357)	(-7-60-1)
	1310	32-4	27-5	-12-2	11400	41-5	235	-6·1
Central Europe	(1110-1500)	(27-5-36-5)	(23-5-31-6)	(-13-311-0)	(8060-15500)	(34-1-48-6)	(168-316)	(-8-53-5)
	5190	181-0	96-0	-11-5	12200	213-0	226	-1.8
Central Latin America	(4450-5930)	(177-0-185-0)	(82-3-109)	(-12-510-5)	(8670-16400)	(204-0-227-0)	(161-304)	(-4-4-1-3)
	1010	111-0	91-7	-11-1	3610	124-0	327	-5.7
Central Sub-Saharan Africa	(844-1180)	(103-0-118-0)	(78-8-105)	(-13-88-4)	(2490-4950)	(109-0-139-0)	(232-442)	(-11-3-0-6)
	41700	145-0	85-9	-9-3	142000	155-0	287	4.6
East Asia	(35300-48000)	(140-0-150-0)	(73-1-98-5)	(-10-58-2)	(99400-191000)	(147-0-164-0)	(204-385)	(-7-21-8)
Eastern Europe	3550	19-0	45-6	-6-8	24000	37-6	306	8-0
	(3010-4070)	(16-3-21-6)	(38-8-52-4)	(-7-95-7)	(17200-32200)	(33-4-41-9)	(220-409)	(5-1-11-2)
	2750	89-0	81-6	-15-2	12700	105-0	368	-8·1
Eastern Sub-Saharan Africa	(2320-3180)	(85-8-92-1)	(70-3-93-1)	(-16-414-1)	(9280-16500)	(98-3-112-0)	(271-474)	(-11.04.8)
	7620	136-0	71-2	-6-3	1860	138-0	18-2	0-3
High-income Asia Pacific	(6530-8720)	(123-0-147-0)	(61-1-80-7)	(-7-25-3)	(1240-2660)	(112-0-162-0)	(11-9-25-7)	(-3-7-4-1)
	3290	81-5	22-4	-1-4	4570	84-1	31-9	-0-3
High-income North America	(2800-3750)	(78-3-84-6)	(19-1-25-6)	(-2-40-25)	(3190-6190)	(78-9-89-2)	(22-1-43-5)	(-2-9-2-1)
	5980	147-0	65-2	-10-3	12200	136-0	132	-14-1
North Africa and Middle East	(5100-6860)	(143-0-151-0)	(55-6-74-6)	(-11-49-1)	(8410-16800)	(127-0-143-0)	(92-3-179)	(-16-811-3)
	119	111-0	90-4	-8-7	321	122-0	240	4.5
Oceania	(100-138)	(103-0-119-0)	(77-3-103)	(-11-45-7)	(219-439)	(106-0-142-0)	(167-323)	(-10-9-3-2)
	32100	140-0	108	-10-1	124000	141-0	399	-6.0
South Asia	(27300-36800)	(134-0-146-0)	(92-6-123)	(-11.09-3)	(86600-166000)	(133-0-151-0)	(283-532)	(-8-43-3)
	15600	124-0	117	-13-7	25800	136-0	195	-9-7
Southeast Asia	(13400-17800)	(120-0-129-0)	(101-132)	(-15-312-2)	(18000-35100)	(127-0-144-0)	(137-264)	(-12-66-6)
	719	83-1	37-7	-7-3	438	79-8	23-2	-6.0
Southern Latin America	(611-823)	(76-7-89-5)	(32-1-43-2)	(-9-84-5)	(291-631)	(64-6-97-9)	(15·3-33·5)	(-14-4-2-9)
	1060	95-2	85-4	-10-3	6810	118-0	527	-0-8
Southern Sub-Saharan Africa	(892-1210)	(91-9-98-2)	(73-5-97-7)	(-11-69-1)	(4940-8890)	(109-0-127-0)	(382-681)	(-4-9-3-3)
	5230	158-0	96-6	-11-8	8000	174-0	149	-8.0
Tropical Latin America	(4480-5960)	(153-0-163-0)	(82-7-110)	(-12-910-8)	(5580-10900)	(160-0-187-0)	(104-203)	(-11-15-1)
370.	7970	57-8	36-3	-5-6	4190	54-5	20-3	-3-4
Western Europe	(6770-9150)	(53-2-62-2)	(31:0-41:3)	(-6-94-4)	(2770-5990)	(47-4-63-4)	(13-2-28-8)	(-6-4-0-3)
ii waa uu aa a	4270	105-0	105	-8-1	14600	135-0	351	3.7
Western Sub-Saharan Africa	(3610-4970)	(102-0-108-0)	(90-2-121)	(-8-87-3)	(10400-19500)	(127-0-142-0)	(252-463)	(1-5-5-9)
	143000	121-6	77-2	-0-3	419000	127-1	223	4-1
Global	(122000-163000)	(118-6-124-3)	(66-2-88-2)	(-0.80-2)	(295000-562000)	(122-7-131-9)	(158-299)	(2-7-5.5)

 $Table \ 4. \ Number \ of \ persons \ and \ crude \ prevalence \ of \ persons \ blind, \ with \ MSVI, \ with \ mild \ VI, \ and \ vision \ impairment \ from \ uncorrected \ presbyopia \ in \ 1990$

	Mild vision impairment		Moderate and severe vision impairment		Blindness		Vision impairment due to uncorrected presbyopia	
Region		Age-standardized rate per 1,000 (95% UI)	Cases in 1000s (95% UI)	Age-standardized rate per 1,000 (95% UI)	Cases in 1000s (95% UI)	Age-standardized rate per 1,000 (95% UI)	Cases in 1000s (95% UI)	Age-standardized rate po 1,000 (95% UI)
	1100	38-5	1270	47-5	213	10-2	1000	49-4
Andean Latin America	(996-1230)	(34-5-42-7)	(1150-1400)	(43-1-52-0)	(183-241)	(8-67-11-8)	(720-1340)	(35-4-66-6)
Australasia	249	12-0	422 (382-462)	20.1	40-3	1-83	204 (158-256)	8-80
Australasia	(224–276) 1160	(10·8–13·3) 38·3	(382-462)	(18-2-22-0)	(35·1-45·3)	(1·60-2·06) 6·85	(158-256)	(6·83–11·1) 54·2
Caribbean	(1050-1280)	(34-6-42-4)	(860-1050)	(28-8-34-9)	(154–206)	(5-82-7-82)	(1010–1890)	(38-9-72-3)
Cat Discard	1650	27-6	1970	38-2	247	5:37	3100	68-0
Central Asia	(1490-1830)	(25-0-30-6)	(1790-2160)	(34-5-41-9)	(210-283)	(4.56-6.19)	(2210-4100)	(48-5-89-8)
	1920	15.0	3030	22:2	283	2·10	8840	60-9
Central Europe	(1730-2140)	(13-5-16-7)	(2700-3400)	(20-0-24-6)	(242-322)	(1.81-2.37)	(6300-11800)	(43-8-80-9)
	4770	39-5	4574	40-8	719	8-30	4570	55-8
Central Latin America	(4310-5300)	(35-6-43-8)	(4130-5050)	(36-9-44-7)	(629-805)	(7-17-9-38)	(3300-6070)	(40·3–74·8)
Central Sub-Saharan Africa	1790 (1600-2000)	42·7 (38·4–47·4)	850 (763-948)	29·8 (26·7–33·3)	153 (131–174)	6-55 (5-56-7-49)	2040 (1460-2700)	88-0 (62-8-115)
Central Suo-Sanatan Africa	39200	38-0	22100	25-1	5310	6-22	66500	75-5
East Asia	(35300-43600)	(34-2-42-0)	(19800-24700)	(22:5-27:7)	(4770-5880)	(5:55-6:87)	(47600-87800)	(54-6-99-7)
	5210	21-6	9530	37-0	817	3-25	18900	68-9
Eastern Europe	(4680-5800)	(19-5-23-9)	(8510-10600)	(33-3-40-9)	(708-923)	(2-83-3-65)	(13500-24900)	(49-3-90-4)
	5840	40-6	3260	34-9	1150	14-5	8070	103
Eastern Sub-Saharan Africa	(5230-6560)	(36-6-45-0)	(2960-3580)	(31-5-38-3)	(1010-1290)	(12-5-16-4)	(5990-10300)	(77-5-131)
	6190	35-3	3160	17-6	373	1-98	901	4-56
High-income Asia Pacific	(5580–6880) 3520	(32-0-39-1)	(2860-3460) 4950	(15·9–19·3) 15·9	(328-420) 416	(1-75-2-22)	(602–1270) 2780	(3-08-6-40) 7.96
High-income North America	(3160-3910)	(10-4-12-9)	(4480-5420)	(14-4-17-5)	(367–467)	(1-09-1-39)	(1960-3770)	(5:68-10:8)
Tigh motion from the law	7990	29-8	10400	45-9	2020	12-0	6130	37-3
North Africa and Middle East	(7190-8920)	(27-0-32-9)	(9470-11500)	(41-8-50-1)	(1740-2300)	(10-1-13-8)	(4360-8290)	(26-7-50-2)
	189	39-1	173	49-7	22-3	7-28	179	61-8
Oceania	(169-212)	(35-1-43-1)	(156-192)	(44-9-55-1)	(19-25-3)	(6·19-8·30)	(127-237)	(44-1-82-6)
	34500	43-6	48900	74-5	8700	16-8	70700	115
South Asia	(31200-38300)	(39-3-48-4)	(44100-54000)	(67-1-82-4)	(7560-9730)	(14-6-18-9)	(51600-92300)	(84·3–149)
Southeast Asia	20400 (18400-22900)	54-4 (49.0-60-1)	15000 (13600-16400)	50.1 (45-5-54-8)	4070 (3570-4560)	16·4 (14·3–18·4)	12900 (9180-17200)	52·5 (37·9–70·5)
SOMBLEAST PENA	890	18-7	1350	28-7	119	2:70	279	6:14
Southern Latin America	(803-990)	(16-8-20-7)	(1230–1480)	(26-1-31-4)	(102-136)	(2:31-3:08)	(189-396)	(4·19-8·73)
	1650	39-4	869	24-6	328	11:5	4230	145
Southern Sub-Saharan Africa	(1480-1840)	(35-6-43-6)	(788-957)	(22-3-27-0)	(290-365)	(10-1-12-9)	(3130-5390)	(108-184)
	4790	40-4	5500	45-7	932	10-2	3380	38-9
Tropical Latin America	(4340-5310)	(36-4-44-8)	(4950-6070)	(41-5-49-8)	(823-1040)	(8-95-11-4)	(2430-4590)	(28.1-52-6)
22.000.000	8220	18-2	11300	24-4	1240	2:34	2980	5-26
Western Europe	(7340-9140)	(16-4-20-2)	(10200-12400)	(22-1-26-7)	(1070-1400)	(2-04-2-63)	(1980-4190)	(3.55-7.39)
Western Sub-Saharan Africa	7120 (6400-7940)	47-3 (42-8-52-4)	4390 (3980-4830)	42·0 (37·7-46·4)	1390 (1210–1560)	15·3 (13·1–17·3)	8070 (5890-10500)	88-3 (64-5-115)
Carrie one summan russa	158000	33-3	154000	35-4	28700	7-18	227000	56-1
Global	(143000-176000)	(30-1-36-9)	(140000-169000)	(32·1–38·8)	(25300-31900)	(6-31-8-02)	(164000-298000)	(40.8-73.4)

Table 5A. Forecasted number of persons and age-standardized prevalence of moderate and severe vision impairment and blindness in 2050 by region

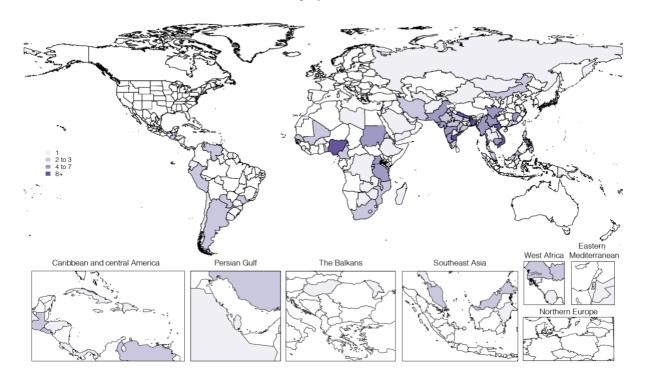
		Moderate and seve	re vision impairment		Bline	iness		
Region	Female: Cases in 1000s (95% UI)	Female: Age-standardized rate per 1,000 (95% UI)	Male: Cases in 1000s (95% UI)	Male: Age-standardized rate per 1,000 (95% UI)	Female: Cases in 1000s (95% UI)	Female: Age-standardized rate per 1,000 (95% UI)	Male: Cases in 1000s (95% UI)	Male: Age-standardize rate per 1,000 (95% UI
Region	2890	45-5	2440	41:3	247	3-24	224	3-34
Andean Latin America	(2620-3170)	45·5 (41·2–50·1)	(2200-2670)	(37-2-45-4)	(211–285)	(2:77-3:7)	(191–259)	(2:85-3:84)
Angean Laun America	2,571771,07177		***************************************		67-8	***********		
Australasia	825 (721–932)	21-9 (19-4-24-7)	696 (607–784)	21-6 (19.0-24-2)	(55-3-81-6)	1.37 (1.14–1.60)	51·9 (41·7–62·6)	1·33 (1·08–1·57)
Australasia	1410	32.0	1020	28.0	197	3-57	165	3-92
Caribbean	(1260-1540)	(29-35-1)	(919–1130)	(25:3-30:7)	(168-229)	(3-08-4-08)	(141–190)	(3-34-4-48)
Caraocan	2990	35-1	2060	31-2	291	3-05	215	3-26
Central Asia	(2680-3320)	(31-6-38-7)	(1850-2290)	(28-3-34-3)	(246-335)	(2:61-3:49)	(182-247)	(2.78-3.73)
Commit rom	2660	22-1	1880	19-2	241	1.48	186	1:55
Central Europe	(2340-2990)	(19-8-24-4)	(1650-2110)	(17-2-21-2)	(202-285)	(1-27-1-69)	(157-217)	(1-33-1-77)
Committedope	10600	39-1	7880	34-2	1020	3-08	852	3.22
Central Latin America	(9480-11600)	(35-3-42-8)	(7090-8640)	(31-1-37-5)	(883–1170)	(2-67-3-49)	(732–972)	(2.78-3-65)
	2550	24-8	2360	25-7	348	3.74	290	3-66
Central Sub-Saharan Africa	(2290–2830)	(22:3-27:5)	(2110-2630)	(23.0-28-5)	(297-398)	(3-20-4-28)	(248-330)	(3-12-4-18)
	48900	30.0	33200	23-9	8210	3-88	6120	3-67
East Asia	(43100-54500)	(27-1-33-2)	(29300-37000)	(21-6-26-4)	(6830-9710)	(3-29-4-50)	(5090-7320)	(3-10-4-31)
Eastern Europe	8020	36-9	4490	31-2	548	1.87	339	1.97
	(7150-8900)	(33-4-40-4)	(4010-4960)	(28-2-34-3)	(467-641)	(1.61-2.12)	(292-389)	(1:71-2:24)
	9740	28-1	7960	26-3	2380	7-40	1830	6-83
Eastern Sub-Saharan Africa	(8870-10600)	(25-6-30-6)	(7250-8710)	(24.0-28-6)	(2090-2660)	(6-48-8-27)	(1610-2040)	(5-97-7-65)
	4610	18-8	3950	19-2	421	1-18	348	1:31
High-income Asia Pacific	(4050-5170)	(16-9-20-7)	(3490-4400)	(17-4-21-1)	(359-498)	(1.03-1.33)	(297-408)	(1-15-1-49)
	7310	17-8	5580	15-6	733	1.38	610	1.42
High-income North America	(6490-8120)	(16-1-19-6)	(4950-6180)	(14-1-17-1)	(623-863)	(1.20-1.57)	(523-706)	(1.24-1.61)
	24600	40-7	22100	38.0	2690	3.90	2270	3.62
North Africa and Middle East	(22100-27100)	(36-8-44-7)	(19900-24400)	(34-4-41-6)	(2300-3100)	(3-35-4-48)	(1940-2610)	(3-12-4-14)
	432	44-4	380	42:3	41-6	4.75	30-2	3-91
Oceania	(387-475)	(40-1-48-5)	(343-421)	(38-2-46-6)	(35-7-47-5)	(4.07-5.41)	(25.8-34.7)	(3-35-4-46)
	67000	46-9	59100	43-2	6030	3-93	5610	3-89
South Asia	(60500-73700)	(42-7-51-1)	(53400-65100)	(39-2-47-3)	(5220-6890)	(3:44-4:44)	(4860-6340)	(3-39-4-36)
	26400	41-7	20700	39-1	4250	5-66	2810	4.81
Southeast Asia	(24700-28500)	(39-44-7)	(19200-22300)	(36-4-41-8)	(3690-4850)	(4-94-6-38)	(2430-3190)	(4-17-5-42)
	2080	30.0	1620	28-3	123	1:45	104	1:59
Southern Latin America	(1860-2300)	(27.0-33.0)	(1440-1800)	(25-5-31-2)	(104-145)	(1-22-1-68)	(87-3-121)	(1.34-1.84)
	1680	23-7	1320	23-9	396	5:33	313	5-82
Southern Sub-Saharan Africa	(1500-1850)	(21-4-26-1)	(1180-1470)	(21-5-26-4)	(340-449)	(4·60-5·99)	(269-354)	(5.03-6.54)
	11700	49-3	8550	44-1	1630	5-25	1220	5.25
Tropical Latin America	(10500-12800)	(44-7-53-9)	(7700-9390)	(40-1-48-1)	(1400-1870)	(4-59-5-89)	(1060-1390)	(4-6-5-88)
	13100	25.0	11400	25.0	1120	1.56	744	1.29
Western Europe	(11600-14600)	(22-5-27-4)	(10100-12600)	(22-5-27-4)	(942-1310)	(1-34-1-78)	(626-874)	(1-10-1-47)
20 22 22 22	14200	35-2	11300	31-5	2690	7-30	2270	7.29
Western Sub-Saharan Africa	(12900-15600)	(31-9-38-7)	(10300-12400)	(28-5-34-6)	(2340-3020)	(6-32-8-24)	(1980-2560)	(6:30-8:25)

Table 5B. Forecasted number of persons and age-standardized prevalence of mild vision impairment and vision impairment from uncorrected presbyopia in 2050 by region

		Mild vision i	Vision impairment due to uncorrected presbyopia					
Region	Female: Cases in 1000s (95% UI)	Female: Age-standardized rate per 1,000 (95% UI)	Male: Cases in 1000s (95% UI)	Male: Age-standardized rate per 1,000 (95% UI)	Female: Cases in 1000s (95% UI)	Female: Age-standardized rate per 1,000 (95% UI)	Male: Cases in 1000s (95% UI)	Male: Age-standardize rate per 1,000 (95% U
300000000	1900	32:7	1610	29-4	3070	43-4	2820	43.7
Andean Latin America	(1680-2110)	(29-2-36-6)	(1440-1780)	(26-4-32-7)	(2140-4220)	(30-4-59-2)	(1980-3890)	(30-7-59-6)
	399	12-3	302	10-7	365	8-05	286	7-57
Australasia	(346-451)	(10.9-13.8)	(264-341)	(9.46-12.0)	(226-579)	(5.04-12.1)	(182-446)	(4.82-11.3)
	1200	31-6	930	28-6	2190	43-4	1810	43-7
Caribbean	(1070–1340)	(28·3-35·1)	(829-1030)	(25-8-31-7)	(1520-2990)	(30-4-59-2)	(1270-2490)	(30-7-59-6)
	1960	25.0	1450	22-7	6010	63-9	3970	55-5
Central Asia	(1750-2180)	(22·5–27·6)	(1290-1610)	(20-5-25-1)	(4200-8160)	(44-9-86-9)	(2760-5450)	(39·2-75·9)
	1290	12-7	963	11-6	8690	63-9	6310	55-5
Central Europe	(1120-1460)	(11-4-14-2)	(835-1080)	(10-4-12-8)	(6130-11800)	(44-9-86-9)	(4410-8570)	(39-2-75-9)
Central Latin America	7730	32-4	6070	29-3	13400	43-4	11200	43-7
Central Latin America	(6860-8570)	(29-2-35-7)	(5420-6710)	(26-4-32-6)	(9320–18400)	(30-4-59-2)	(7850–15400)	(30·7–59·6)
Central Sub-Saharan Africa	3850 (3460-4300)	35·4 (31·8–39·4)	3040 (2730–3410)	30·1 (27·1–33·4)	8760 (6530–11400)	90-6 (67-9-117)	7090 (5180–9290)	85·3 (63.0–111)
Central Sub-Sanaran Arrica	42200	31.4	29700	25-5	105000	(679-117)	80200	48-5
East Asia	(36700-47500)	(28-2-34-7)	(26000-33300)	(22-9-28-2)	(75200-144000)	(38-7-74)	(56100-109000)	(34-6-65-2)
East Asia	3740	20-1	2320	18:3	16000	63-9	9200	55:5
Eastern Europe	(3270-4200)	(18.0-22-2)	(2050-2600)	(16-4-20-3)	(11300-21600)	(44-9-86-9)	(6410–12600)	(39-2-75-9)
, and the same of	11100	30-5	8720	26-3	30300	90-6	23800	85-3
Eastern Sub-Saharan Africa	(10100-12300)	(27-7-33-8)	(7870-9670)	(23-7-29.0)	(22500-39600)	(67-9-117)	(17400-31100)	(63.0-111)
	6420	34.0	4780	29-3	2460	8-05	1920	7-57
High-income Asia Pacific	(5620-7180)	(30-8-37-5)	(4180-5370)	(26-5-32-6)	(1500-4040)	(5-04-12-1)	(1200-3070)	(4-82-11-3)
	4000	11:4	3440	11:1	3940	8-05	3160	7-57
High-income North America	(3500-4490)	(10-3-12-7)	(3030-3830)	(10.0-12-4)	(2440-6240)	(5.04-12.1)	(2010-4920)	(4-82-11-3)
	13800	24-7	12400	22:7	20500	30-3	17700	27-2
North Africa and Middle East	(12300-15300)	(22-3-27-5)	(11000-13800)	(20-4-25-2)	(14200-28500)	(21.0-42-2)	(12100-24900)	(18·8-38·2)
	349	34-4	291	30.0	498	54-4	382	48-5
Oceania	(313-392)	(30-9-38-5)	(260-326)	(26-9-33-5)	(353-669)	(38-7-74.0)	(271-517)	(34-6-65-2)
	43800	33-9	37500	30.0	160000	98.0	139000	89-7
South Asia	(39000-48900)	(30-6-37-7)	(33500-41900)	(27-1-33-3)	(118000-206000)	(73-2-126)	(103000-183000)	(66-7-117)
	22000	39-2	18000	37-4	39600	54-4	29300	48-5
Southeast Asia	(19800-24100)	(35-6-43-1)	(16200-19900)	(33-9-41-3)	(28200-54200)	(38·7–74)	(20600-39400)	(34-6-65-2)
	1060	17-3	805	15-6	673	8-05	508	7-57
Southern Latin America	(926–1190)	(15-5-19-3)	(709-896)	(14.0–17-4)	(418–1050)	(5-04-12-1)	(318–771)	(4-82-11-3)
	2180	33-1	1530	28-1	6860	90-6	5020	85-3
Southern Sub-Saharan Africa	(1950–2430)	(29-7-36-7)	(1370–1690)	(25·3–31·2)	(5140-8940)	(67-9-117)	(3650-6550)	(63.0–111)
Tropical Latin America	6850 (6030–7690)	33-2 (29-9-37.0)	5110 (4520–5710)	29-9 (26-9-33-1)	12400 (8590-17100)	43·4 (30·4–59·2)	10000 (7010-13800)	43·7 (30·7–59·6)
Tropicat Laun America	11.00.000.000.000.000		6190	***************************************	5220			
Western Europe	7670 (6680–8610)	17-5 (15-8-19-5)	(5400-6920)	16 (14·3–17·7)	(3210-8410)	8-05 (5-04-12-1)	4210 (2640–6700)	7·57 (4·82–11·3)
** estern Europe	(6680-8610)	(15-8-19-5)	(5400-6920)	(14:3-17:7)	(3210-8410)	(5-04-12-1)	26600	(4·82–11·3) 85·3
Western Sub-Saharan Africa	(16300–19900)	(37-7-45-5)	(12200-15000)	(30-2-36-8)	(25100-43800)	(67-9-117)	(19400-34400)	(63.0-111)

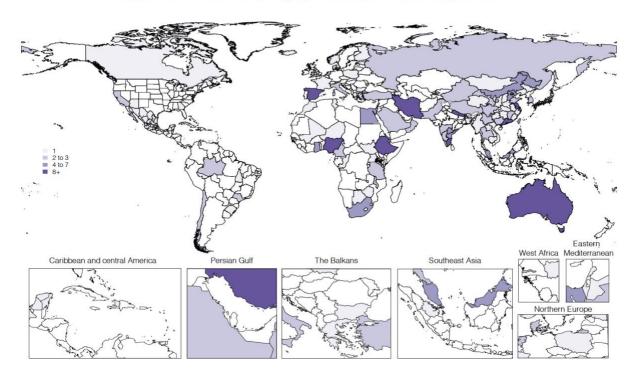
Figure 1: Data Sources used in the analysis from RAAB (Map A) and non-RAAB (Map B) studies.

 $Map\ A.$ Blindness and vision loss data coverage by location for raab sources from 1980 to 2019



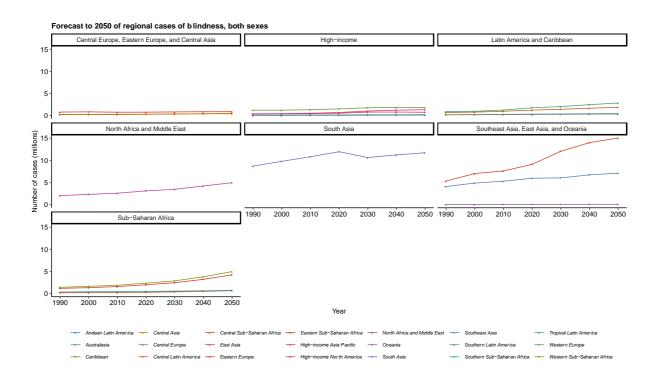
Map B.

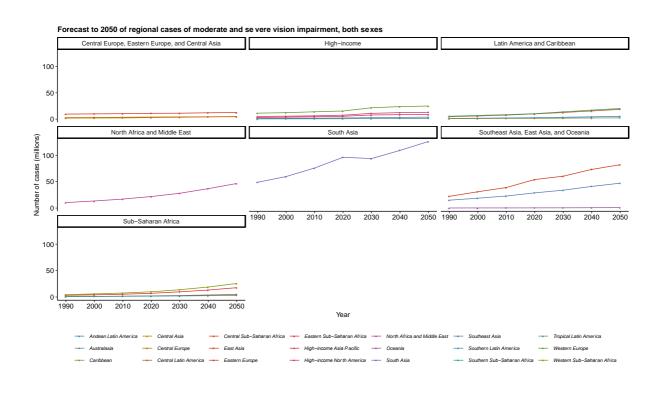
Blindness and vision loss data coverage by location for non-raab sources from 1980 to 2019

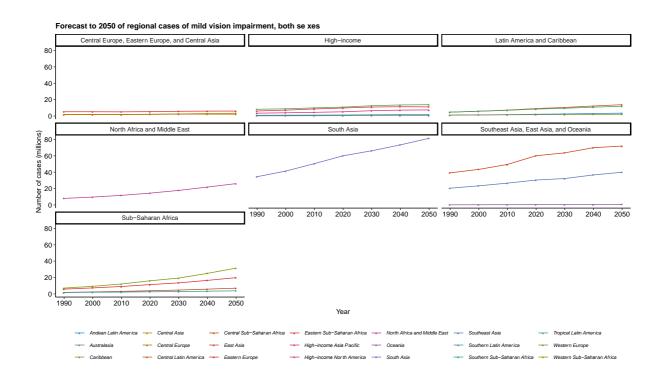


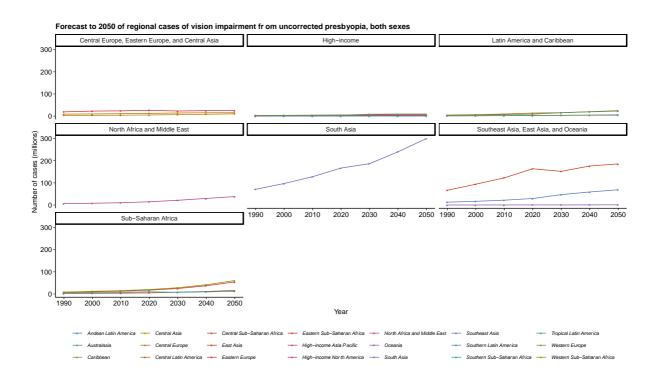
All sources can be found in Tables 2 and 3 of Appendix 1.

Figure 2 A-D. Forecast of numbers of people affected by blindness, moderate and severe vision impairment, mild vision impairment and vision impairment from uncorrected presbyopia to 2050- by region.









APPENDIX 3: CONTRIBUTORS

GBD 2019 Blindness and Vision Impairment Collaborator Contributions

Managing the estimation process

Rupert Bourne and Theo Vos.

Writing the first draft of the manuscript

Rupert Bourne, Hugh Taylor, Serge Resnikoff, Robert Casson, and Jost Jonas.

Providing data or critical feedback on data sources

Rupert Bourne, Hugh Taylor, Serge Resnikoff, Kenji Shibuya, Amir Abdoli, Yonas Akalu, Jalal Arabloo, Till Bärnighausen, Akshaya Bhagavathula, Mukharram Bikbov, Michele Bottone, Tasanee Braithwaite, Alain Bron, Ching-Yu Cheng, Dinh-Toi Chu, Maria Vittoria Cicinelli, Lalit Dandona, Rakhi Dandona, Jenny Deva, Joshua Ehrlich, Leon Ellwein, Mohammad Hassan Emamian, Arthur Fernandes, João Furtado, Abhay Gaidhane, Shilpa Gaidhane, Gus Gazzard, Ronnie George, Ahmad Ghashghaee, Mahaveer Golechha, Mary Elizabeth Hartnett, Hung Chak Ho, Chi Hoang, Mowafa Househ, Seyed Sina Irvani, Rim Kahloun, Ayele Semachew Kasa, Maryam Keramati, Moncef Khairallah, Ejaz Khan, Rohit Khanna, Mahalaqua Nazli Khatib, Judy Kim, Yun Jin Kim, Adnan Kisa, Sezer Kisa, Van Lansingh, Janet Leasher, Nicolas Leveziel, Hans Limburg, Navid Manafi, Colm McAlinden, Seyed Farzad Mohammadi, Abdollah Mohammadian-Hafshejani, Reza Mohammadpourhodki, Ali Mokdad, Delaram Moosavi, Kovin Naidoo, Vinay Nangia, Cuong Nguyen, Huong Nguyen, Kolawole Ogundimu, Andrew Olagunju, Songhomitra Panda-Jonas, Konrad Pesudovs, Tunde Peto, Zahiruddin Quazi Syed, Mohammad Hifz Ur Rahman, David Rawaf, Salman Rawaf, Sare Safi, Abdallah Samy, Deepak Saxena, Masood Shaikh, Tueng Shen, Jae Il Shin, Juan Carlos Silva, Alexander Silvester, Jasvinder Singh, Deepika Singhal, Rita Sitorus, Eirini Skiadaresi, Amin Soheili, Eyayou Tadesse, Nina Tahhan, Bach Tran, Ravensara Travillian, Ningli Wang, Tien Wong, Zoubida Zaidi, and Jost Jonas.

Development of methods or computational machinery

Ashkan Afshin, Akshaya Bhagavathula, Michele Bottone, Mowafa Househ, Maryam Keramati, Mahalaqua Nazli Khatib, Adnan Kisa, Sezer Kisa, Reza Mohammadpourhodki, Ali Mokdad, Konrad Pesudovs, Zahiruddin Quazi Syed, Abdallah Samy, and Jost Jonas.

Providing critical feedback on methods or results

Hugh Taylor, Eman Abu-Gharbieh, Ashkan Afshin, Hamid Ahmadieh, Yonas Akalu, Alehegn Alamneh, Ahmed Alfaar, Vahid Alipour, Etsay Anbesu, Sofia Androudi, Jalal Arabloo, Eleni Bagli, Atif Baig, Till Bärnighausen, Akshaya Bhagavathula, Pankaj Bhardwaj, Nikha Bhardwaj, Krittika Bhattacharyya, Ali Bijani, Michele Bottone, Zahid Butt, Dinh-Toi Chu, João Coelho, Baye Dagnew, Reza Dana, Lalit Dandona, Rakhi Dandona, Daniel Diaz, Shirin Djalalinia, Joshua Ehrlich, Mohammad Hassan Emamian, Florian Fischer, Abhay Gaidhane, Shilpa Gaidhane, Berhe Gebremichael, Ahmad Ghashghaee, Mahaveer Golechha, Risky Hartono, Simon Hay, Golnaz Heidari, Hung Chak Ho, Chi Hoang, Mowafa Househ, Segun Ibitoye, Milena Ilic, Irena Ilic, Seyed Sina Irvani, Ravi Jha, Himal Kandel, Ayele Semachew Kasa, Maryam Keramati, Ejaz Khan, Mahalaqua Nazli Khatib, Yun Jin Kim, Adnan Kisa, Sezer Kisa, Ai Koyanagi, Om Kurmi, Nicolas Leveziel, Marek Majdan, Navid Manafi, Colm McAlinden, Seyed Farzad Mohammadi, Abdollah Mohammadian-Hafshejani, Reza Mohammadpourhodki, Ali Mokdad, Delaram Moosavi, Mehdi Naderi, Kovin Naidoo, Cuong Nguyen, Huong Nguyen, Andrew Olagunju, Samuel Ostroff, Songhomitra Panda-Jonas, Konrad Pesudovs, Zahiruddin Quazi Syed, Mohammad Hifz Ur Rahman, David Rawaf, Salman Rawaf, Sare Safi, Abdallah Samy, Deepak Saxena, Masood Shaikh, Jae Il Shin, Jasvinder Singh, Deepika Singhal, Rita Sitorus, Eirini Skiadaresi, Vegard Skirbekk, Amin Soheili, Raúl Sousa, Emma Spurlock, Biruk Taddele, Eyayou Tadesse, Md Tareque, Fotis Topouzis, Bach Tran, Ravensara Travillian, Miltiadis Tsilimbaris, Zoubida Zaidi, Kaleab Zewdie, and Jost

Extracting, cleaning, or cataloging data; designing or coding figures and tables

Rupert Bourne, Jaimie D Steinmetz, Seth Flaxman, Paul Briant, Serge Resnikoff, Mukharram Bikbov, Michele Bottone, Tasanee Braithwaite, Alain Bron, Ching-Yu Cheng, Maria Vittoria Cicinelli, Arthur Fernandes, João Furtado, Ronnie George, Rim Kahloun, Moncef Khairallah, Judy Kim, Van Lansingh, Janet Leasher, Hans Limburg, Vinay Nangia, Kolawole Ogundimu, Konrad Pesudovs, Tunde Peto, Nickolas Reinig, Alexander Silvester, Nina Tahhan, Ningli Wang, Tien Wong, Jost Jonas, and Theo Vos.

Drafting the manuscript or revising it critically for important intellectual content

Rupert Bourne, Jaimie D Steinmetz, Seth Flaxman, Paul Briant, Hugh Taylor, Serge Resnikoff, Robert Casson, Eman Abu-Gharbieh, Wondu Alemayehu, Ahmed Alfaar, Sofia Androudi, Jalal Arabloo, Malke Asaad, Eleni Bagli, Atif Baig, Till Bärnighausen, Maurizio Battaglia Parodi, Akshaya Bhagavathula, Krittika Bhattacharyya, Mukharram Bikbov, Michele Bottone, Tasanee Braithwaite, Alain Bron, Ching-Yu Cheng, Maria Vittoria Cicinelli, João Coelho, Baye Dagnew, Xiaochen Dai, Monte Del Monte, Daniel Diaz, Joshua Ehrlich, Mohammad Hassan Emamian, Arthur Fernandes, Florian Fischer, David Friedman, João Furtado, Abhay Gaidhane, Shilpa Gaidhane, Gus Gazzard, Berhe Gebremichael, Ronnie George, Ahmad Ghashghaee, Samer

Hamidi, Billy Hammond, Golnaz Heidari, Hung Chak Ho, Chi Hoang, Mowafa Househ, Segun Ibitoye, Milena Ilic, Irena Ilic, April Ingram, Seyed Sina Irvani, Ravi Jha, Rim Kahloun, Himal Kandel, John Kempen, Moncef Khairallah, Ejaz Khan, Rohit Khanna, Mahalaqua Nazli Khatib, Adnan Kisa, Ai Koyanagi, Om Kurmi, Van Lansingh, Janet Leasher, Nicolas Leveziel, Hans Limburg, Marek Majdan, Navid Manafi, Kaweh Mansouri, Colm McAlinden, Abdollah Mohammadian-Hafshejani, Ali Mokdad, Delaram Moosavi, Mehdi Naderi, Kovin Naidoo, Vinay Nangia, Cuong Nguyen, Huong Nguyen, Kolawole Ogundimu, Andrew Olagunju, Songhomitra Panda-Jonas, Konrad Pesudovs, Tunde Peto, Zahiruddin Quazi Syed, Mohammad Hifz Ur Rahman, Pradeep Ramulu, Nickolas Reinig, Alan Robin, Amirhossein Sahebkar, Abdallah Samy, Deepak Saxena, Janet Serle, Masood Shaikh, Kenji Shibuya, Jae Il Shin, Alexander Silvester, Jasvinder Singh, Deepika Singhal, Rita Sitorus, Eirini Skiadaresi, Raúl Sousa, Dwight Stambolian, Eyayou Tadesse, Nina Tahhan, Fotis Topouzis, Bach Tran, Ravensara Travillian, Rohit Varma, Gianni Virgili, Ningli Wang, Ya Xing Wang, Sheila West, Zoubida Zaidi, Kaleab Zewdie, Jost Jonas, and Theo Vos.

Management of the overall research enterprise

Rupert Bourne, Hugh Taylor, and Theo Vos.