

BMJ Open Reducing health inequalities through general practice: protocol for a realist review (EQUALISE)

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ABSTRACT

Introduction Healthcare organisations recognise the moral imperative to address inequalities in health outcomes but often lack an understanding of which types of interventions are likely to reduce them. This realist review will examine the existing evidence on the types of interventions or aspects of routine care in general practice that are likely to decrease or increase health inequalities (ie, inequality-generating interventions) across cardiovascular disease, cancer, diabetes and chronic obstructive pulmonary disease.

Methods and analysis Our realist review will follow Pawson's five iterative stages. We will start by developing an initial programme theory based on existing theories and discussions with stakeholders. To navigate the large volume of literature, we will access the primary studies through the identification of published systematic reviews of interventions delivered in general practice across the four key conditions. We will examine the primary studies included within each systematic review to identify those reporting on inequalities across PROGRESS-Plus categories. We will collect data on a range of clinical outcomes including prevention, diagnosis, follow-up and treatment. The data will be synthesised using a realist logic of analysis. The findings will be a description and explanation of the general practice interventions which are likely to increase or decrease inequalities across the major conditions.

Ethics and dissemination Ethics approval is not required because this study does not include any primary research. The findings will be integrated into a series of guiding principles and a toolkit for healthcare organisations to reduce health inequalities. Findings will be disseminated through peer-reviewed publications, conference presentations and user-friendly summaries.

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INTRODUCTION

In the last decades, population health has significantly improved at least in high-income countries.¹ However, it seems that this benefit is not proportionately distributed across groups within societies. Social inequalities in life expectancy, morbidity, mortality and their risk factors remain a persistent problem² which is expected to worsen during and after

Strengths and limitations of this study

- A key strength of this study is that it will assimilate and synthesise a breadth of data across four conditions and different manifestations of health inequalities.
- A further strength is that the programme theory will be used to develop guidance and a toolkit for practitioners and policy makers in collaboration with patient representatives at every state of the research.
- The two-stage approach to accessing the breadth of literature means that there is a possibility that some studies may be missed.

the COVID-19 pandemic.³ Recent reports show that chronic conditions such as cancer, heart disease, stroke and chronic obstructive pulmonary disease (COPD) are driving health inequalities in life expectancy.⁴ Specifically, in England, the gap in life expectancy between the least and most deprived areas is 9.4 years for men and 7.4 years for women,⁵ while the aforementioned conditions were responsible for two-thirds of premature mortality in the country in 2017.⁶ Although these inequalities are driven by wider determinants of health, such as employment, education and income, national healthcare systems have a vital role in defining their range and effects.⁷ In particular, general practice is key to reducing health inequalities. Previous research exploring cancer pathways found that inequalities tend to arise due to late presentation and diagnosis in general practice, rather than the diagnosis to treatment pathway in secondary care.⁸

However, understanding which are the most effective strategies for reducing health inequalities represents a challenge for national and international public health organisations. Besides routine healthcare that often fails to meet the needs of disadvantaged groups and increases health inequalities, there are also health interventions that may



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decrease or increase inequalities. For example, workplace interventions to increase employee control or participation, fiscal policies, such as tobacco price increases and low agency interventions (ie, individuals only require a small amount of effort to benefit) are likely to reduce inequalities.⁹ However, media campaigns and work-based smoking bans tend to increase inequalities across socioeconomic groups and so do interventions which require high agency (ie, individuals require considerable personal resources to benefit). The latter are examples of what we call *intervention-generated inequalities* (IGIs)¹⁰ and refer to inequalities emerging from interventions which although they improve health overall, they increase inequalities by disproportionately benefitting advantaged groups or unintentionally negatively affecting disadvantaged groups.^{11–15} Moreover, the extent to which interventions increase or decrease inequalities may also vary over time. For example, research assessing inequalities in smoking found that population-based smoking interventions may increase inequalities in the short-term as they benefit the most-affluent in society; however, over the long-term reduce inequalities as the benefit moves more towards lower socioeconomic groups.¹⁶

Healthcare services, which are often the first point of contact for vulnerable individuals, are estimated to contribute 15%–43% to health outcomes.⁷ In the UK, the National Health Service (NHS) acknowledges both a moral imperative to address systematic, unfair differences in health outcomes and a financial rationale with socioeconomic inequalities costing the NHS £4.8 billion/year in hospitalisations alone.¹⁷ The NHS long-term plan promises a ‘more concerted and systematic approach to reducing health inequalities’ and about £1 billion additional funding for more deprived areas,¹⁸ with primary care being asked to develop specific plans to reduce health inequalities.¹⁹ However, in the context of complex and often contradictory evidence as described above, the NHS still lacks a thorough understanding of which types of interventions are likely to reduce inequalities²⁰ and paradoxically which may inadvertently increase inequalities.²¹ This realist review study will examine the existing evidence on interventions and aspects of routine care in general practice that are likely to increase or decrease health inequalities and will provide healthcare organisations with an evidence synthesis and guiding principles on what should be commissioned and how for the reduction of health inequalities.

Rationale

The last systematic review on health service interventions to reduce inequalities was published 23 years ago based on articles published 25–35 years ago.²² The study focused on how to reduce inequalities but did not account for IGIs. The authors concluded that a multidisciplinary approach using a combination of strategies was more likely to reduce inequalities. However, the evidence base and the healthcare organisational landscape has changed substantially over the past 25 years.

An important development concerns the PROGRESS-Plus conceptual framework for different dimensions of inequalities.²³ Proposed by the Campbell and Cochrane Collaborations, the framework encourages researchers to take a more systematic approach to equity by categories of disadvantaged groups—place of residence, race/ethnicity/culture/language, occupation, gender/sex, religion, education, socioeconomic status, social capital, plus characteristics related to discrimination (eg, age and disability), features of relationships (eg, parents who smoke) and time-dependent relationships (eg, being a carer).

Attwood and colleagues¹⁴ reviewed primary-care-based physical activity interventions using the PROGRESS-Plus categories and identified 24 randomised controlled trial (RCT) studies in which differential effects of one or more PROGRESS-Plus criteria were reported, with gender (n=22) and age (n=16) being the most common, followed by race (n=4), education (n=3), social capital (n=3) and socioeconomic status (n=3). The authors found mixed effects for gender, and some evidence of improved physical activity for patients with higher baseline social support. An additional review by Terens and colleagues²⁴ on quality improvement strategies to reduce inequalities in diabetes care using the PROGRESS-Plus criteria showed that a quality improvement strategy improves care for older and less educated people, and African Americans. Moreover, Capewell and Graham²⁵ studied the role of cardiovascular disease prevention in the reduction of health inequalities. They compared the evidence about the effectiveness of a ‘high-risk approach’; where patients are categorised and treated according to risk, with ‘population-wide programmes’, like smoking bans and found that the former is more likely to increase inequalities compared with the latter. Similarly, Durand and colleagues¹⁵ reviewed the impact of shared decision-making across primary and secondary care on health inequalities and found that such interventions were likely to benefit disadvantaged groups and therefore reduce inequalities.

Although important, this evidence is disparate and limited as it emerges from reviews focused on RCTs. Broadening the search to include non-RCT interventional or other studies will allow additional relevant interventions to emerge and be integrated into useable guidance. For example, a review of reviews shows that while the impact of social determinants of health interventions is generally unclear, there is evidence that housing and working environment interventions reduce health inequalities.²⁶ In this context, our study aims to provide healthcare systems and general practices with up-to-date, extended and integrated evidence on interventions that decrease or increase health inequalities with details on who is most and least likely to benefit, in what circumstances, why and how, as well as specific guiding principles to commission general practice effectively to reduce inequalities. Additionally, the review will produce findings that can be applied internationally to guide general practice in a variety of

settings by uncovering specific contextual factors which are generally present in primary care settings and trigger mechanisms causing inequalities to increase or decrease.

Objectives

Our main objective is to explore what types of interventions or aspects of routine care in general practice increase or decrease inequalities in outcomes of cardiovascular disease, cancer, diabetes or COPD, for whom, why, in what circumstances and how. Based on this evidence, we aim further to develop guidance and a toolkit for healthcare decision makers about how best to tackle health inequalities through general practice services.

METHODS AND ANALYSIS

Existing research indicates that the interventions and routine care delivered in general practice are complex and context-specific, with a range of impacts on inequalities in different settings. To account for this complexity, we will conduct a realist review, aiming to complete it by June 2022. In contrast to systematic reviews which seeks to draw conclusions on whether an intervention works or not, realist methods not only seek to understand which specific elements of interventions work, but also for which groups does it work, how does it work and why.^{10 27} Specifically it draws on a context–mechanism–outcome (CMO) logic of analysis to develop context-dependent findings and outputs. The review will be conducted through the following steps.

Identifying existing theories

We will start by identifying existing theories that explain how, for whom, why and in what circumstances interventions delivered in general practice may increase or decrease health inequalities. To do this, we will first scope the literature on IGIs, starting with existing systematic reviews.^{9 10 14 27} The scoping of the literature will be exploratory based on informal methods like snow-balling and citation tracking²⁸ to ensure that it will inform the search strategy without limiting its scope. Second, we will consult key content experts and third, we will refine our findings through iterative discussions within the project team to synthesise an initial programme theory. In line with the realist methodology, the initial programme theory as agreed among the different stakeholders will be broad enough to allow generalisability and guide our literature search.²⁷

Literature search and screening

In our review, we will undertake an electronic search of MEDLINE, EMBASE, CINAHL, PsycINFO, the Web of Science and the Cochrane library to identify systematic reviews of interventions delivered in general practice across cardiovascular disease, cancer, diabetes or COPD. Our search strategy is available in online supplemental appendix 1. The identified titles and abstracts will be screened for eligibility by two reviewers and disagreements

and unclear studies will be resolved through discussion. Any disagreements will be resolved through discussion. Our inclusion and exclusion criteria are found below.

Inclusion criteria

- ▶ Reviews that use a comprehensive search strategy and appropriate quality appraisal tool.
- ▶ Interventions which target cardiovascular disease, cancer, diabetes or COPD or their risk factors, namely, smoking, hypertension, diet, exercise and cholesterol.
- ▶ Interventions delivered in general practice.
- ▶ Clinical outcomes relating to the type of care (acute, chronic and preventative), function of care (diagnosis, screening and prevention, follow-up and continuity, treatment) and domain of care (effective, efficient, timely, patient-centred and safe).²⁹
- ▶ Studies reporting on the differential effectiveness of care/intervention across groups or interventions targeted at disadvantaged groups.
- ▶ Studies undertaken in high-income countries, as defined by the Organisation for Economic Co-operation and Development (OECD), with no language restrictions.

Exclusion criteria

- ▶ Drug effectiveness or efficacy studies.
- ▶ Review articles superseded by more comprehensive reviews.
- ▶ Reviews on children, mental health or disease areas not listed above.

Next, the full text of the included primary studies in each of the reviews will be screened by two reviewers according to the following criteria:

Inclusion criteria

- ▶ Interventions which report clinical outcomes by socioeconomic group, or other PROGRESS-Plus criteria, relating to the type of care (acute, chronic and preventative), function of care (diagnosis, screening and prevention, follow-up and continuity, and treatment) and domain of care (effective, efficient, timely, patient-centred and safe).
- ▶ Interventional studies or interventions targeted at disadvantaged groups.
- ▶ General practice interventions targeting cardiovascular disease, cancer, diabetes or COPD or their risk factors, namely, smoking, hypertension, diet, exercise and cholesterol.
- ▶ Clinical outcomes (eg, mortality and myocardial infarction) or clinical measures of risk factors (eg, change in Hb1Ac and blood pressure).
- ▶ Experimental study design.
- ▶ Studies undertaken in high-income countries, as defined by the OECD, with no language restrictions.

Exclusion criteria

- ▶ Drug effectiveness or efficacy studies.
- More searches will be undertaken, if we require more data to develop and test certain subsections of

the programme theory. This will allow us to integrate useful evidence from non-RCT studies which are usually excluded from systematic reviews. For each additional search, the project team will set inclusion and exclusion criteria and follow the same screening processes as for the initial search. Where applicable, we will follow the search strategies developed by Booth and colleagues.³⁰

Article selection

Documents will be selected based on relevance (ie, whether data can contribute to theory building and/or testing) and rigour (ie, whether the methods used to generate the relevant data are credible and trustworthy). To illustrate how we will operationalise rigour, if relevant data have been generated using an RCT, then the trustworthiness of the data would be considered to be greater if the trial meets current quality criteria for rigour. Documents may still be included even if judged to be of limited rigour, as we will also be making an overall assessment of rigour at the level of the programme theory³¹ following the same decision-making process as outlined above.

Data extraction

The included papers will be uploaded to NVivo and sections of texts relating to contexts, mechanisms and their relationships to outcomes will be coded by AG. Codes will be inductive (ie, created to categorise data reported in included studies), deductive (ie, created in advance of data extraction as informed by the initial programme theory) and retroductive (ie, created based on an interpretation of data to infer what the hidden causal forces might be for outcomes). A random sample of 10% will be independently and additionally coded by JF and/or GW to improve consistency and quality. Key study characteristics, such as included patients, interventions and outcomes by socioeconomic group or other PROGRESS-Plus criteria, will be extracted using an Excel pro forma. Each new element of data will be used to refine the theory if appropriate, and as the theory is refined, included studies will be re-scrutinised for data relevant to the revised theory that may have been missed initially.

Data synthesis

Data will be analysed in light of the initial programme theory following current realist review quality and publication standards.³² We will use interpretive cross-case comparison to understand and explain how and why observed outcomes have occurred. As part of data synthesis, we will use a series of questions addressing the relevance and rigour of content, interpretation of meaning, as well as interpretations about CMO-configurations and the initial programme theory within and across documents. Theory driven data synthesis will allow us to move beyond the identification of intervention effects towards the causal mechanisms

operating behind specific interventions and ultimately towards suggestions regarding the ways interventions can be more useful.

Developing guidance and a toolkit for practitioners and policy makers

The finalised programme theory, as it will emerge from the data synthesis, will be used to develop guidance and a toolkit for practitioners and policy makers. First, the research team will develop an initial guidance document and toolkit similar to previous work,³³ which will then be refined during a 1-day deliberative workshop with the expert group, research team and key stakeholders (eg, NHS England, groups which represent disadvantaged communities). We are confident that the engagement of key stakeholders encouraged by realist methodology will benefit the outcomes and ensure their effectiveness within service delivery settings.

Patient and public involvement

Patient and public involvement (PPI) in the delivery of the research will be key. We will have three PPI representatives as part of the Research Team. Our PPI team members will ensure that a patient and public voice is maintained throughout the research and will contribute to the design, interpretation of the findings and dissemination activities. Furthermore, we will recruit a diverse range of individuals to attend expert group meetings and the Deliberative workshop.

Ethics and dissemination

Ethics approval is not required because this study does not include any primary research.

Our dissemination strategy will capitalise on the stakeholder networks that we will establish during the research. We will consult with our expert panel to identify the main stakeholders for dissemination across different audiences and accordingly develop tailored materials for each audience, namely, primary care policy makers and commissioners, general practitioners, members of the public, third-sector organisations and researchers.

To ensure that the findings have maximum impact we will produce a number of outputs tailored to the needs of the targeted audiences. We will produce a set of guiding principles aimed at all general practice services which will help decision makers and commissioners to understand the likely impact of their services on health inequalities and offer evidence-based suggestions for the tailoring or modification of services. The guidelines will further be integrated in a toolkit with greater detail and worked examples. The main target audience of this toolkit will be national, regional and local healthcare organisations. Additionally, the findings from the review will be submitted for publication to an open-access high-impact peer-reviewed journal for the academic audience. Our final project report will also be available on an open access basis to those interested in the detail of our methods and findings. Finally, to make relevant stakeholders aware

of the 'headline' findings of the realist review, we will produce summaries in a user-friendly and tailored format.

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Contributors JAF: conceived the idea and drafted the initial funding application, from which manuscript is drawn, with input from GW, FH, SS, IK, CB, RRH, AM and SM. JAF, GW, FH, SS, IK, CB, RRH, AM, SM and RS: contributed to the design of the study after funding. AG: drafted the initial version of this manuscript and JAF, GW, FH, SS, IK, CB, RRH, AM, SM and RS: contributed to editing the final version. JAF is the guarantor.

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Competing interests GW is: deputy chair of the UK's National Institute for Health Research Health Technology Assessment Prioritisation Committee: Integrated Community Health and Social Care (A) and a member of the Methods Group (A).

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Appendix 1: Search Strategy

28th April 2021

Medline

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process, In-Data-Review & Other Non-Indexed Citations, Daily and Versions(R) <1946 to April 27, 2021>

1 Meta-Analysis as Topic/ or meta analy\$.tw. or metaanaly\$.tw. or Meta-Analysis/ or (systematic adj (review\$1 or overview\$1)).tw. or exp Review Literature as Topic/ or cochrane.ab. or embase.ab. or (psychlit or psyclit).ab. or (psychinfo or psycinfo).ab. or (cinahl or cinhal).ab. or science citation index.ab. or bids.ab. or cancerlit.ab. or reference list\$.ab. or bibliograph\$.ab. or hand-search\$.ab. or relevant journals.ab. or manual search\$.ab. or ((selection criteria or data extraction).ab. and Review/) or (review or systematic review).pt. or review*.ti.

2 (primary care or primary health care or primary healthcare or (general practi* or family practi* or family medicine or GP)).mp. or exp primary health care/ or exp general practice/ or exp family practice/ or exp physicians, family/ or exp general practitioners/

3 cardiovascular.mp. or exp heart failure/ or exp myocardial infarction/ or ((heart or cardiac or myocardial) adj2 (failure or infarc\$ or attack\$)).tw. or exp hypertension/ or hypertens\$.tw. or exp blood pressure/ or (blood pressure or bloodpressure).tw.

4 exp Neoplasms/ or (cancer\$ or neoplas\$ or tumor\$ or carcinoma\$ or hodgkin\$ or nonhodgkin\$ or adenocarcinoma\$ or leuk?emia\$1 or metasta\$ or malignan\$ or lymphoma\$ or sarcoma\$ or melanoma\$ or myeloma\$ or oncolog\$).tw.

5 exp Diabetes Mellitus/ or diabet\$.tw,ot. or (IDDM or NIDDM or MODY or T1DM or T2DM or T1D or T2D).tw,ot. or (non insulin\$ depend\$ or non insulin\$ depend\$ or non insulin?depend\$ or non insulin?depend\$).tw,ot. or (insulin\$ depend\$ or insulin?depend\$).tw,ot.

6 Lung Diseases, Obstructive/ or exp Pulmonary Disease, Chronic Obstructive/ or emphysema\$.mp. or (chronic\$ adj3 bronchiti\$).mp. or (obstruct\$ adj3 (pulmonary or lung\$ or airway\$ or airflow\$ or bronch\$ or respirat\$)).mp. or COPD.mp. or COAD.mp. or COBD.mp. or AECB.mp.

7 or/3-6

8 Residence Characteristics/ or Environment design/ or exp Marital status/ or neighbo?rhood*.mp. or residential environment*.mp. or rural*.mp. or inner?city.mp. or housing instability.mp. or housing insecurity.mp. or housing strain.mp. or housing security.mp. or mortgage problems.mp. or foreclosure.mp. or eviction*.mp. or housing loss.mp. or home repossession*.mp. or home ownership.mp. or (repossession* adj3 hous*).mp. or (repossession* adj3 propert*).mp. or mortgage delinquency.mp. or mortgage arrears.mp. or mortgage debt*.mp. or overcrowding.mp. or (living adj1 (outside or inside or near* or adjacent)).mp. or (household adj2 size).mp. or (marital status or marriage status).mp. or (widow* or cohabit* or divorce* or single parent* or live* alone).mp.

9 Cultural Deprivation/ or Acculturation/ or Culture/ or Cross-Cultural Comparison/ or Cultural Characteristics/ or Cultural Diversity/ or Language/ or "Transients and Migrants"/ or exp "Emigrants and Immigrants"/ or Minority groups/ or Minority health/ or Prejudice/ or Racism/ or Xenophobia/

or Social Discrimination/ or exp Race Relations/ or exp Ethnic Groups/ or exp Continental Population Groups/ or Refugees/ or minorit*.mp. or migration background.mp. or racial.mp. or racism.mp. or ethnology.mp. or race.mp. or ethnic*.mp. or non?English.mp. or language other than.mp. or latino*.mp. or latina*.mp. or hispanic*.mp. or whites.mp. or caucasian*.mp. or non?white.mp. or Torres Strait Islander.mp. or aboriginal.mp. or native american.mp. or inuit.mp. or eskimo.mp. or first nation*.mp. or indigenous.mp. or english as a second language.mp. or foreign language.mp.

10 Occupations/ or Unemployment/ or occupations.mp. or unemployment.mp.

11 exp Gender Identity/ or Women's Health/ or gender differences.mp. or (sex disparit* or sex difference?).mp. or gender identity.mp. or sex role.mp. or wom#n* role?.mp. or m#n* role?.mp. or gender* role?.mp. or servicewomen.mp. or Sex factors/

12 exp Educational status/ or Education/ or Schooling.mp. or educational status.mp. or (education* adj2 level?).mp. or ((higher or better or worse or less) adj educated).mp. or ((higher or better or worse or less) adj level? of education).mp.

13 Religion/ or religi*.mp.

14 Social determinants of Health/ or Psychosocial Deprivation/ or Sociological Factors/ or Working Poor/ or Hierarchy, Social/ or disparit*.mp. or inequalit*.mp. or inequit*.mp. or equity.mp. or deprivation.mp. or gini.mp. or concentration index.mp. or Socioeconomic Factors/ or Social Welfare/ or exp Social Class/ or exp Poverty/ or Income/ or Social class*.mp. or social determinants.mp. or social status.mp. or social position.mp. or social background.mp. or social circumstance*.mp. or socioeconomic.mp. or socioeconomic.mp. or sociodemographic.mp. or socio-demographic.mp. or SES.mp. or disadvantaged.mp. or impoverished.mp. or poverty.mp. or economic level.mp. or assets index.mp. or income*.mp.

15 Social Stigma/ or social capital/ or Social Control, Informal/ or exp Social Support/ or exp Social Environment/ or Trust/ or Social conditions/ or Social isolation/ or Social marginalization/ or Anomie/ or social participation/ or social exclusion.mp. or (social adj (capital or cohes* or organis* or organiz*)).mp. or (community adj3 (cohes* or participa*)).mp. or ((neighbourhood or neighborhood) adj cohes*).mp. or social relationships.mp. or social network*.mp. or collective efficacy.mp. or civil society.mp. or informal social control.mp. or neighbo*rhood disorder.mp. or social disorgani?ation.mp. or anomie.mp. or social support.mp. or social participation.mp. or trust.mp. or emotional support.mp. or psychosocial support.mp. or community capital.mp. or neighbo*rhood cohesion.mp. or social influence.mp. or (soci*context* or soci*-context*).mp.

16 Health Status Disparities/ or Health Services Accessibility/ or Health Equity/ or health*care disparit*.mp. or health care disparit*.mp. or health status disparit*.mp. or health disparit*.mp. or health inequalit*.mp. or health inequit*.mp. or medically underserved.mp.

17 (potential determinants or significant correlates of or (independent correlates or independent association*) or variables associated with or determinants of or factors associated with or identif* determinants or (more likely or less likely or just as likely) or risk factors for or (significantly related to or significant predictor) or (also adj2 associated with) or (at increased risk or at decreased risk) or association* between or (positively associated or negatively associated) or differed by or (were

high* amongst or were low* amongst) or (inverse relationship with or inversely associated with or inversely related to) or reverse association or differentially affects or evidence of a link between or (significantly adj3 likelihood of) or protective factors for or (differ* adj2 according to) or (inverse adj2 gradient) or (positive adj2 gradient) or (negative adj2 gradient) or (trends were adj3 across) or (related to adj3 variable*) or (differences were adj3 explained by) or (significant among or no# significant among)).mp.

18 or/8-17

19 1 and 2 and 7 and 18

20 (afghanistan or albania or algeria or american samoa or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or republic of belarus or belarus or byelarus or belorussia or byelorussian or belize or british honduras or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or burkina faso or burkina fasso or upper volta or burundi or urundi or cabo verde or cape verde or cambodia or kampuchea or khmer republic or cameroon or cameron or cameroun or central african republic or ubangi shari or chad or chile or china or colombia or comoros or comoro islands or iles comores or mayotte or democratic republic of the congo or democratic republic congo or congo or zaire or costa rica or "cote d'ivoire" or "cote d'ivoire" or cote divoire or cote d ivoire or ivory coast or croatia or cuba or cyprus or czech republic or czechoslovakia or djibouti or french somaliland or dominica or dominican republic or ecuador or egypt or united arab republic or el salvador or equatorial guinea or spanish guinea or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or gabonese republic or gambia or "georgia (republic)" or georgian or ghana or gold coast or gibraltar or greece or grenada or guam or guatemala or guinea or guinea bissau or guyana or british guiana or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or isle of man or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or republic of korea or north korea or south korea or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or kyrgyz republic or kirghiz or laos or lao pdr or "lao people's democratic republic" or latvia or lebanon or lebanese republic or lesotho or basutoland or liberia or libya or libyan arab jamahiriya or lithuania or macau or macao or republic of north macedonia or macedonia or madagascar or malagasy republic or malawi or nyasaland or malaysia or malay federation or malaya federation or maldives or indian ocean islands or indian ocean or mali or malta or micronesia or federated states of micronesia or kiribati or marshall islands or nauru or northern mariana islands or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or morocco or ifni or mozambique or portuguese east africa or myanmar or burma or namibia or nepal or netherlands antilles or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or papua new guinea or new guinea or paraguay or peru or philippines or philipines or philippines or philippines or poland or "polish people's republic" or portugal or portuguese republic or puerto rico or romania or russia or russian federation or ussr or soviet union or union of soviet socialist republics or rwanda or ruanda or samoa or pacific islands or polynesia or samoan islands or navigator island or navigator islands or "sao tome and principe" or saudi arabia or senegal or serbia or seychelles or sierra leone or slovakia or slovak republic or slovenia or melanesia or solomon island or solomon islands or norfolk island or norfolk islands or somalia or south africa or south sudan or sri lanka or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or saint lucia or "st. lucia" or "saint vincent and the grenadines" or saint vincent or "st. vincent" or grenadines or sudan or suriname or surinam or dutch guiana or netherlands guiana or syria or syrian arab republic or tajikistan or tadjikistan or tadjikistan or tadjik or tanzania or tanganyika or thailand or siam or timor leste or east timor or togo or togolese republic or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or turkmenistan or turkmen or uganda or ukraine or uruguay or uzbekistan or uzbek or vanuatu or new hebrides or venezuela or vietnam or viet nam or middle

east or west bank or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or northern rhodesia or global south or africa south of the sahara or sub-saharan africa or subsaharan africa or africa, central or central africa or africa, northern or north africa or northern africa or magreb or maghrib or sahara or africa, southern or southern africa or africa, eastern or east africa or eastern africa or africa, western or west africa or western africa or west indies or indian ocean islands or caribbean or central america or latin america or "south and central america" or south america or asia, central or central asia or asia, northern or north asia or northern asia or asia, southeastern or southeastern asia or south eastern asia or southeast asia or south east asia or asia, western or western asia or europe, eastern or east europe or eastern europe or developing country or developing countries or developing nation? or developing population? or developing world or less developed countr* or less developed nation? or less developed population? or less developed world or lesser developed countr* or lesser developed nation? or lesser developed population? or lesser developed world or under developed countr* or under developed nation? or under developed population? or under developed world or under developed countr* or underdeveloped nation? or underdeveloped population? or underdeveloped world or middle income countr* or middle income nation? or middle income population? or low income countr* or low income nation? or low income population? or lower income countr* or lower income nation? or lower income population? or underserved countr* or underserved nation? or underserved population? or underserved world or under served countr* or under served nation? or under served population? or under served world or deprived countr* or deprived nation? or deprived population? or deprived world or poor countr* or poor nation? or poor population? or poor world or poorer countr* or poorer nation? or poorer population? or poorer world or developing econom* or less developed econom* or lesser developed econom* or under developed econom* or underdeveloped econom* or middle income econom* or low income econom* or lower income econom* or low gdp or low gnp or low gross domestic or low gross national or lower gdp or lower gnp or lower gross domestic or lower gross national or lmics or third world or lami countr* or transitional countr* or emerging economies or emerging nation?).ti,ab,sh,kf.

21 19 not 20

22 limit 21 to yr="2010 -Current"

Embase

Embase <1974 to 2021 April 26>

1 exp Meta Analysis/ or ((meta adj analy\$) or metaanalys\$).tw. or (systematic adj (review\$1 or overview\$1)).tw. or cancerlit.ab. or cochrane.ab. or embase.ab. or (psychlit or psyclit).ab. or (psychinfo or psycinfo).ab. or (cinahl or cinhal).ab. or science citation index.ab. or bids.ab. or reference lists.ab. or bibliograph\$.ab. or hand-search\$.ab. or manual search\$.ab. or relevant journals.ab. or ((data extraction or selection criteria).ab. and review.pt.)

2 (primary care or primary health care or primary healthcare or (general practi* or family practi* or family medicine or GP)).ti,ab. or exp *primary health care/ or exp *primary medical care/ or exp *general practice/ or exp *general practitioner/

3 cardiovascular.ti,ab. or exp *cardiovascular disease/ or exp *heart failure/ or exp *heart disease/ or exp *heart infarction/ or ((heart or cardiac or myocardial) adj2 (failure or infarc\$ or attack\$)).ti,ab. or exp *hypertension/ or hypertens\$.ti,ab. or exp *blood pressure/ or (blood pressure or bloodpressure).ti,ab.

4 exp *Neoplasm/ or (cancer\$ or neoplas\$ or tumo\$ or carcinoma\$ or hodgkin\$ or nonhodgkin\$ or adenocarcinoma\$ or leuk?emia\$1 or metasta\$ or malignan\$ or lymphoma\$ or sarcoma\$ or melanoma\$ or myeloma\$ or oncolog\$).ti,ab.

5 exp *Diabetes Mellitus/ or diabet\$.ti,ab. or (IDDM or NIDDM or MODY or T1DM or T2DM or T1D or T2D).ti,ab. or (non insulin\$ depend\$ or non insulin\$ depend\$ or non insulin?depend\$ or non insulin?depend\$).ti,ab. or (insulin\$ depend\$ or insulin?depend\$).ti,ab.

6 exp *chronic Obstructive Lung Disease/ or exp *chronic bronchitis/ or exp *emphysema/ or (chronic\$ adj3 bronchiti\$).ti,ab. or (obstruct\$ adj3 (pulmonary or lung\$ or airway\$ or airflow\$ or bronch\$ or respirat\$)).ti,ab. or (COPD or COAD or COBD or AECB).ti,ab. or (emphysema or chronic obstructive pulmonary disease or chronic bronchitis or chronic asthma).ti,ab. or exp *Asthma/

7 or/3-6

8 demography/ or environmental planning/ or marriage/ or divorce/ or cohabitation/ or widow/ or exp "single (marital status)"/ or neighbo?rhood*.mp. or residential environment*.mp. or rural*.mp. or inner?city.mp. or housing instability.mp. or housing insecurity.mp. or housing strain.mp. or housing security.mp. or mortgage problems.mp. or foreclosure.mp. or eviction*.mp. or housing loss.mp. or home repossession*.mp. or home ownership.mp. or (repossess* adj3 hous*).mp. or (repossess* adj3 propert*).mp. or mortgage delinquency.mp. or mortgage arrears.mp. or mortgage debt*.mp. or overcrowding.mp. or (living adj1 (outside or inside or near* or adjacent)).mp. or (household adj2 size).mp. or (marital status or marriage status).mp. or (widow* or cohabit* or divorce* or single parent* or live* alone).mp.

9 exp cultural deprivation/ or cultural factor/ or cultural anthropology/ or cultural diversity/ or exp migrant/ or minority group/ or minority health/ or prejudice/ or exp social discrimination/ or exp race relation/ or exp ethnic group/ or exp ancestry group/ or exp refugee/ or minorit*.mp. or migration background.mp. or racial.mp. or racism.mp. or ethnology.mp. or race.mp. or ethnic*.mp. or non?Eng

lish.mp. or language other than.mp. or latino*.mp. or latina*.mp. or hispanic*.mp. or whites.mp. or caucasian*.mp. or non?white.mp. or Torres Strait Islander.mp. or aboriginal.mp. or native american.mp. or inuit.mp. or eskimo.mp. or first nation*.mp. or indigenous.mp. or english as a second language.mp. or foreign language.mp.

10 exp employment status/ or job characteristics/ or occupations.mp. or unemployment.mp.

11 exp gender identity/ or women's health/ or sex difference/ or (sex disparit* or sex difference?).mp. or gender identity.mp. or sex role.mp. or wom#n* role?.mp. or m#n* role?.mp. or gender* role?.mp. or servicewomen.mp.

12 exp educational status/ or schooling.mp. or educational status.mp. or (education* adj2 level?).mp. or ((higher or better or worse or less) adj educated).mp. or ((higher or better or worse or less) adj level? of education).mp.

13 religion/ or religi*.mp.

14 "social determinants of health"/ or social aspect/ or working poor/ or exp social hierarchy/ or socioeconomics/ or disparit*.mp. or inequalit*.mp. or inequit*.mp. or equity.mp. or deprivation.mp. or gini.mp. or concentration index.mp. or social welfare/ or social class/ or poverty/ or social status/ or social background/ or social class*.mp. or social determinants.mp. or social status.mp. or social position.mp.

15 (social background or social circumstance* or socio-economic or socioeconomic or sociodemographic or socio-demographic or SES or disadvantaged or impoverished or poverty or economic level or assets index or income*).mp.

16 exp social isolation/ or social capital/ or social stigma/ or social support/ or social environment/ or trust/ or exp social exclusion/ or anomie/ or social participation/ or social exclusion.mp. or (social adj (capital or cohes* or organis* or organiz*)).mp. or (community adj3 (cohes* or participa*)).mp. or ((neighbourhood or neighborhood) adj cohes*).mp. or social relationships.mp. or social network*.mp. or collective efficacy.mp. or civil society.mp. or informal social control.mp. or neighbo*rhod disorder.mp. or ocial disorgani?ation.mp. or anomie.mp. or social support.mp. or social participation.mp. or trust.mp. or emotional support.mp. or psychosocial support.mp. or community capital.mp. or neighbo*rhod cohesion.mp. or social influence.mp. or (soci*context* or soci*-context*).mp.

17 health disparity/ or health equity/ or health care access/ or health*care disparit*.mp. or health care disparit*.mp. or health status disparit*.mp. or health disparit*.mp. or health inequalit*.mp. or health inequit*.mp. or medically underserved.mp.

18 (potential determinants or significant correlates of or (independent correlates or independent association*) or variables associated with or determinants of or factors associated with or identif* determinants or (more likely or less likely or just as likely) or risk factors for or (significantly related to or significant predictor) or (also adj2 associated with) or (at increased risk or at decreased risk)).mp.

19 (association* between or (positively associated or negatively associated) or differed by or (were high* amongst or were low* amongst) or (inverse relationship with or inversely associated with or inversely related to) or reverse association or differentially affects or evidence of a link between or (significantly adj3 likelihood of) or protective factors for or (differ* adj2 according to) or (inverse adj2 gradient) or (positive adj2 gradient) or (negative adj2 gradient) or (trends were adj3 across) or (related to adj3 variable*) or (differences were adj3 explained by) or (significant among or no# significant among)).mp.

20 or/8-19

21 1 and 2 and 7 and 20

22 (afghanistan or albania or algeria or american samoa or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or republic of belarus or belarus or byelarus or belorussia or byelorussian or belize or british honduras or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or burkina faso or burkina fasso or upper volta or burundi or urundi or cabo verde or cape verde or cambodia or kampuchea or khmer republic or cameroon or cameron or cameroun or central african republic or ubangi shari or chad or chile or china or colombia or comoros or comoro islands or iles comores or mayotte or democratic republic of the congo or democratic republic congo or congo or zaire or costa rica or "cote d'ivoire" or "cote d'ivoire" or cote divoire or cote d ivoire or ivory coast or croatia or cuba or cyprus or czech republic or czechoslovakia or djibouti or french somaliland or dominica or dominican republic or ecuador or egypt or united arab republic or el salvador or equatorial guinea or spanish guinea or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or gabonese republic or gambia or "georgia (republic)" or georgian or ghana or gold coast or gibraltar or greece or grenada or guam or guatemala or guinea or guinea bissau or guyana or british guiana or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or isle of man or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or republic of korea or north korea or south korea or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or kyrgyz republic or kirghiz or laos or lao pdr or "lao people's democratic republic" or latvia or lebanon or lebanese republic or lesotho or basutoland or liberia or libya or libyan arab jamahiriya or lithuania or macau or macao or "macedonia (republic)" or macedonia or madagascar or malagasy republic or malawi or nyasaland or malaysia or malay federation or malaya federation or maldives or indian ocean islands or indian ocean or mali or malta or micronesia or federated states of micronesia or kiribati or marshall islands or nauru or northern mariana islands or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or "montenegro (republic)" or morocco or ifni or mozambique or portuguese east africa or myanmar or burma or namibia or nepal or netherlands antilles or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or papua new guinea or new guinea or paraguay or peru or philippines or philipines or philippines or philippines or poland or "polish people's republic" or portugal or portuguese republic or puerto rico or romania or russia or russian federation or ussr or soviet union or union of soviet socialist republics or rwanda or ruanda or samoa or pacific islands or polynesia or samoan islands or navigator island or navigator islands or "sao tome and principe" or saudi arabia or senegal or serbia or seychelles or sierra leone or slovakia or slovak republic or slovenia or melanesia or solomon island or solomon islands or norfolk island or norfolk islands or somalia or south africa or south sudan or sri lanka or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or saint lucia or "st. lucia" or "saint vincent and the grenadines" or saint vincent or "st. vincent" or grenadines or sudan or suriname or surinam or dutch guiana or netherlands guiana or syria or syrian arab republic or tajikistan or tadjikistan or tadjikistan or tadjik or tanzania or tanganyika or thailand or siam or timor leste or east timor or togo or togolese republic or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or "turkey (republic)" or turkmenistan or turkmen or uganda

or ukraine or uruguay or uzbekistan or uzbek or vanuatu or new hebrides or venezuela or vietnam or viet nam or middle east or west bank or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or northern rhodesia or global south or africa south of the sahara or "sub saharan africa" or subsaharan africa or africa, central or central africa or africa, northern or north africa or northern africa or magreb or maghrib or sahara or africa, southern or southern africa or africa, eastern or east africa or eastern africa or africa, western or west africa or western africa or west indies or indian ocean islands or caribbean region or caribbean islands or caribbean or central america or latin america or "south and central america" or south america or asia, central or central asia or asia, northern or north asia or northern asia or asia, southeastern or southeastern asia or south eastern asia or southeast asia or south east asia or asia, western or western asia or europe, eastern or east europe or eastern europe or developing country or developing countries or developing nation? or developing population? or developing world or less developed countr* or less developed nation? or less developed population? or less developed world or lesser developed countr* or lesser developed nation? or lesser developed population? or lesser developed world or under developed countr* or under developed nation? or under developed population? or under developed world or underdeveloped countr* or underdeveloped nation? or underdeveloped population? or underdeveloped world or middle income countr* or middle income nation? or middle income population? or low income countr* or low income nation? or low income population? or lower income countr* or lower income nation? or lower income population? or underserved countr* or underserved nation? or underserved population? or underserved world or under served countr* or under served nation? or under served population? or under served world or deprived countr* or deprived nation? or deprived population? or deprived world or poor countr* or poor nation? or poor population? or poor world or poorer countr* or poorer nation? or poorer population? or poorer world or developing econom* or less developed econom* or lesser developed econom* or under developed econom* or underdeveloped econom* or middle income econom* or low income econom* or lower income econom* or low gdp or low gnp or low gross domestic or low gross national or lower gdp or lower gnp or lower gross domestic or lower gross national or lmics or third world or lami countr* or transitional countr* or emerging economies or emerging nation?).ti,ab,sh,kw.

23 21 not 22

24 limit 23 to yr="2010 -Current"

CINAHL

S22 s19 not s20

Limiters - Published Date: 20100101-20211231

S21 s19 not s20

S20 (afghanistan OR albania OR algeria OR american samoa OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR republic of belarus OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR british honduras OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR burkina faso OR burkina fasso OR upper volta OR burundi OR urundi OR cabo verde OR cape verde OR cambodia OR kampuchea OR khmer republic OR cameroon OR cameron OR cameroun OR central african republic OR ubangi shari OR chad OR chile OR china OR colombia OR comoros OR comoro islands OR iles comores OR mayotte OR democratic republic of the congo OR democratic republic congo OR congo OR zaire OR costa rica OR "cote d'ivoire" OR "cote d' ivoire" OR cote divoire OR cote d ivoire OR ivory coast OR croatia OR cuba OR cyprus OR czech republic OR czechoslovakia OR djibouti OR french somaliland OR dominica OR dominican republic OR ecuador OR egypt OR united arab republic OR el salvador OR equatorial guinea OR spanish guinea OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR gabonese republic OR gambia OR "georgia (republic)" OR georgian OR ghana OR gold coast OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR guinea bissau OR guyana OR british guiana OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR isle of man OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR republic of korea OR north korea OR south korea OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR kyrgyz republic OR kirghiz OR laos OR lao pdr OR "lao people's democratic republic" OR latvia OR lebanon OR lebanese republic OR lesotho OR basutoland OR liberia OR libya OR libyan arab jamahiriya OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR malagasy republic OR malawi OR nyasaland OR malaysia OR malay federation OR malaya federation OR maldives OR indian ocean islands OR indian ocean OR mali OR malta OR micronesia OR federated states of micronesia OR kiribati OR marshall islands OR nauru OR northern mariana islands OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR "montenegro (republic)" OR morocco OR ifni OR mozambique OR portuguese east africa OR myanmar OR burma OR namibia OR nepal OR netherlands antilles OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR papua new guinea OR new guinea OR paraguay OR peru OR philippines OR philipines OR philippines OR philippines OR poland OR "polish people's republic" OR portugal OR portuguese republic OR puerto rico OR romania OR russia OR russian federation OR ussr OR soviet union OR union of soviet socialist republics OR rwanda OR ruanda OR samoa OR pacific islands OR polynesia OR samoan islands OR navigator island OR navigator islands OR "sao tome and principe" OR saudi arabia OR senegal OR serbia OR seychelles OR sierra leone OR slovakia OR slovak republic OR slovenia OR melanesia OR solomon island OR solomon islands OR norfolk island OR norfolk islands OR somalia OR south africa OR south sudan OR sri lanka OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR saint lucia OR "st. lucia" OR "saint vincent and the grenadines" OR saint vincent OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR dutch guiana OR netherlands guiana OR syria OR syrian arab republic OR tajikistan OR tadjikistan OR tadjhikistan OR tadjhik OR tanzania OR tanganyika OR thailand OR siam OR timor leste OR east timor OR togo OR togolese republic OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR new hebrides OR venezuela OR vietnam OR viet nam OR middle east OR west bank OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR northern rhodesia OR global south OR africa south of the sahara OR "sub saharan africa" OR subsaharan africa OR africa, central OR central africa OR africa, northern OR north africa OR northern africa OR magreb OR maghrib OR sahara OR africa, southern OR southern africa OR africa, eastern OR east africa OR eastern africa OR africa, western OR west africa OR western africa OR west indies OR indian ocean islands OR caribbean region OR caribbean islands OR caribbean OR central america OR latin america OR "south and central america" OR south america OR asia, central OR central asia OR asia, northern OR north asia OR northern asia OR asia, southeastern OR southeastern asia OR south eastern asia OR southeast asia OR south east asia OR asia, western OR western asia OR europe, eastern OR east europe OR eastern europe OR developing country OR developing countries OR developing nation? OR developing population? OR developing world OR less developed countr* OR less developed nation? OR less

developed population? OR less developed world OR lesser developed countr* OR lesser developed nation? OR lesser developed population? OR lesser developed world OR under developed countr* OR under developed nation? OR under developed population? OR under developed world OR underdeveloped countr* OR underdeveloped nation? OR underdeveloped population? OR underdeveloped world OR middle income countr* OR middle income nation? OR middle income population? OR low income countr* OR low income nation? OR low income population? OR lower income countr* OR lower income nation? OR lower income population? OR underserved countr* OR underserved nation? OR underserved population? OR underserved world OR under served countr* OR under served nation? OR under served population? OR under served world OR deprived countr* OR deprived nation? OR deprived population? OR deprived world OR poor countr* OR poor nation? OR poor population? OR poor world OR poorer countr* OR poorer nation? OR poorer population? OR poorer world OR developing econom* OR less developed econom* OR lesser developed econom* OR under developed econom* OR underdeveloped econom* OR middle income econom* OR low income econom* OR lower income econom* OR low gdp OR low gnp OR low gross domestic OR low gross national OR lower gdp OR lower gnp OR lower gross domestic OR lower gross national OR lmic OR lmic OR third world OR lami countr* OR transitional countr* OR emerging economies OR emerging nation?)

S19 S1 AND S2 AND S7 AND S18

S18 S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17

S17 TI ("potential determinants" or "significant correlates of" or ("independent correlates" or "independent association*") or "variables associated with" or "determinants of" or "factors associated with" or "identif* determinants" or ("more likely" or "less likely" or "just as likely") or "risk factors for" or ("significantly related to" or "significant predictor") or (also n2 "associated with") or ("at increased risk" or "at decreased risk") or "association* between" or ("positively associated" or "negatively associated") or "differed by" or ("were high* amongst" or "were low* amongst") or ("inverse relationship with" or "inversely associated with" or "inversely related to") or "reverse association" or "differentially affects" or "evidence of a link between" or (significantly n3 "likelihood of") or "protective factors for" or (differ* n2 "according to") or (inverse n2 gradient) or (positive n2 gradient) or (negative n2 gradient) or ("trends were" n3 across) or ("related to" n3 variable*) or ("differences were" n3 "explained by") or ("significant among")) or AB ("potential determinants" or "significant correlates of" or ("independent correlates" or "independent association*") or "variables associated with" or "determinants of" or "factors associated with" or "identif* determinants" or ("more likely" or "less likely" or "just as likely") or "risk factors for" or ("significantly related to" or "significant predictor") or (also n2 "associated with") or ("at increased risk" or "at decreased risk") or "association* between" or ("positively associated" or "negatively associated") or "differed by" or ("were high* amongst" or "were low* amongst") or ("inverse relationship with" or "inversely associated with" or "inversely related to") or "reverse association" or "differentially affects" or "evidence of a link between" or (significantly n3 "likelihood of") or "protective factors for" or (differ* n2 "according to") or (inverse n2 gradient) or (positive n2 gradient) or (negative n2 gradient) or ("trends were" n3 across) or ("related to" n3 variable*) or ("differences were" n3 "explained by") or ("significant among"))

S16 TI (health*care disparit* or health status disparit* or health disparit* or health inequalit* or health inequit* or medically underserved) or AB (health*care disparit* or health status disparit* or health disparit* or health inequalit* or health inequit* or medically underserved) or (MH "Health Status Disparities") OR (MH "Healthcare Disparities") OR (MH "Health Services Accessibility+") OR (MH "Health Services Needs and Demand+")

S15 TI (social exclusion or (social n1 (capital or cohes* or organis* or organiz*)) or (community n3 (cohes* or participa*)) or ((neighbourhood or neighborhood) n1 cohes*) or social relationships or social network* or collective efficacy or civil society or informal social control or neighbo*rhood disorder or social disorgani?ation or anomie or social support or social participation or trust or emotional support or psychosocial support or community capital or neighbo*rhood cohesion or social influence or (soci*context* or soci*-context*)) or AB (social exclusion or (social n1 (capital or cohes* or organis* or organiz*)) or (community n3 (cohes* or participa*)) or ((neighbourhood or neighborhood) n1 cohes*) or social relationships or social network* or collective efficacy or civil society or informal social control or neighbo*rhood disorder or social disorgani?ation or anomie or social support or social participation or trust or emotional support or psychosocial support or community capital or neighbo*rhood cohesion or social influence or (soci*context* or soci*-context*)) or (MH "Stigma") OR (MH "Social Capital") OR (MH "Social Control+") OR (MH "Social Responsibility+") OR (MH "Trust") OR (MH "Social Isolation+") OR (MH "Social Behavior+") OR (MH "Social Participation")

S14 TI (disparit* or inequalit* or inequit* or equity or deprivation or gini or concentration index or Social class* or social determinants or social status or social position or social background or social circumstance* or socio-economic or socioeconomic or sociodemographic or socio-demographic or SES or disadvantaged or impoverished or poverty or economic level or assets index or income*) or AB (disparit* or inequalit* or inequit* or equity or deprivation or gini or concentration index or Social class* or social determinants or social status or social position or social background or social circumstance* or socio-economic or socioeconomic or sociodemographic or socio-demographic or SES or disadvantaged or impoverished or poverty or economic level or assets index or income*) or (MH "Social Determinants of Health") OR (MH "Psychosocial Deprivation") OR (MH "Socioeconomic Factors+") OR (MH "Social Welfare+") OR (MH "Social Class+") OR (MH "Poverty+") or (MH "Income+")

S13 TI (religi*) or AB (religi*) or (MH "Religion and Religions+")

S12 TI (Schooling or educational status or (education* n2 level*) or ((higher or better or worse or less) n1 educated) or ((higher or better or worse or less) n1 level* of education) or AB (Schooling or educational status or (education* n2 level*) or ((higher or better or worse or less) n1 educated) or ((higher or better or worse or less) n1 level* of education) or (MH "Educational Status") OR (MH "Education+")

S11 TI (sex disparit* or sex difference* or gender identity or sex role or wom#n* role? or m#n* role? or gender* role* or servicewomen or gender differences) or AB (sex disparit* or sex difference* or gender identity or sex role or wom#n* role? or m#n* role? or gender* role* or servicewomen or gender differences) or (MH "Gender Identity+") OR (MH "Women's Health") OR (MH "Sex Factors")

S10 TI (occupations or unemployment) or AB (occupations or unemployment) or (MH "Occupations and Professions+") OR (MH "Unemployment")

S9 TI (minorit* or migration background or racial or racism or ethnology or race or ethnic* or non#English or "language other than" or latino* or latina* or hispanic* or whites or caucasian* or non?white or Torres Strait Islander or aboriginal or native american or inuit or eskimo or first nation* or indigenous or "english as a second language" or foreign language) or AB (minorit* or migration background or racial or racism or ethnology or race or ethnic* or non#English or "language other than" or latino* or latina* or hispanic* or whites or caucasian* or non?white or Torres Strait Islander or aboriginal or native american or inuit or eskimo or first nation* or indigenous or "english as a second language" or foreign language) or (MH "Cultural Deprivation") OR (MH "Acculturation") OR (MH "Culture+") OR (MH "Cultural Diversity") OR (MH "Language+") OR (MH "Transients and Migrants") OR (MH "Immigrants+") OR (MH "Emigration and Immigration") OR (MH "Minority Groups") OR (MH "Prejudice+") OR (MH "Racism") OR (MH "Cultural Bias") OR (MH "Discrimination") OR (MH "Race Relations+") OR (MH "Ethnic Groups+") OR (MH "Refugees+")

S8 TI (neighbo?rhood* or residential environment* or inner?city or housing instability or housing insecurity or housing strain or housing security or mortgage problems or foreclosure or eviction* or housing loss or home repossession* or home ownership or (repossess* n3 hous*) or (repossess* n3 propert*) or mortgage delinquency or mortgage arrears or mortgage debt* or overcrowding or (living n1 (outside or inside or near* or adjacent)) or (household n2 size) or (marital status or marriage status) or (widow* or cohabit* or divorce* or single parent* or live* alone)) or AB (neighbo?rhood* or residential environment* or inner?city or housing instability or housing insecurity or housing strain or housing security or mortgage problems or foreclosure or eviction* or housing loss or home repossession* or home ownership or (repossess* n3 hous*) or (repossess* n3 propert*) or mortgage delinquency or mortgage arrears or mortgage debt* or overcrowding or (living n1 (outside or inside or near* or adjacent)) or (household n2 size) or (marital status or marriage status) or (widow* or cohabit* or divorce* or single parent* or live* alone)) or (MH "Residence Characteristics+") OR (MH "Social Environment+") OR (MH "Community Living+") OR (MH "Marital Status+")

S7 S3 OR S4 OR S5 OR S6

S6 TI (cancer* or neoplas* or tumor* or carcinoma* or Hodgkin* or nonhodgkin* or adenocarcinoma* or leuk#emia* or metasta* or malignan* or lymphoma* or sarcoma* or melanoma* or myeloma* or oncolog*) or AB (cancer* or neoplas* or tumor* or carcinoma* or Hodgkin* or nonhodgkin* or adenocarcinoma* or leuk#emia* or

metasta* or malignan* or lymphoma* or sarcoma* or melanoma* or myeloma* or oncolog*) or (MH "Neoplasms+")

S5 TI (emphysema* or asthma* or (chronic* n3 bronchiti*) or (obstruct* n3 (pulmonary or lung* or airway* or airflow* or bronch* or respirat*)) or COPD or COAD or COBD or AECB) or AB (emphysema* or (chronic* n3 bronchiti*) or (obstruct* n3 (pulmonary or lung* or airway* or airflow* or bronch* or respirat*)) or COPD or COAD or COBD or AECB) or (MH "Pulmonary Disease, Chronic Obstructive+") OR (MH "Lung Diseases, Obstructive+") OR (MH "Emphysema+") OR (MH "Bronchitis, Chronic") OR (MH "Asthma+")

S4 TI (diabet* or IDDM or NIDDM or MODY or T1DM or T2DM or T1D or T2D or non insulin* depend* or non insulin#depend* or non insulin#depend* or insulin* depend* or insulin#depend*) or AB(diabet* or IDDM or NIDDM or MODY or T1DM or T2DM or T1D or T2D or non insulin* depend* or non insulin#depend* or non insulin#depend* or insulin* depend* or insulin#depend*) or (MH "Diabetes Mellitus+")

S3 TI (cardiovascular or ((heart or cardiac or myocardial) n2 (failure or infarc* or attack*)) or hypertens* or blood pressure or bloodpressure) or AB(cardiovascular or ((heart or cardiac or myocardial) n2 (failure or infarc* or attack*)) or hypertens* or blood pressure or bloodpressure) or (MH "Cardiovascular Diseases+") OR (MH "Myocardial Infarction+") OR (MH "Hypertension+") OR (MH "Blood Pressure+") or (MH "Heart Failure+")

S2 TI ((primary care or primary health care or primary healthcare) or (general practi* or family practi* or family medicine or GP)) or AB ((primary care or primary health care or primary healthcare) or (general practi* or family practi* or family medicine or GP)) or (MH "Primary Health Care") OR (MH "Physicians, Family") OR (MH "Family Practice")

S1 (TI (systematic* n3 review*)) or (AB (systematic* n3 review*)) or (TI (systematic* n3 bibliographic*)) or (AB (systematic* n3 bibliographic*)) or (TI (systematic* n3 literature)) or (AB (systematic* n3 literature)) or (TI (comprehensive* n3 literature)) or (AB (comprehensive* n3 literature)) or (TI (comprehensive* n3 bibliographic*)) or (AB (comprehensive* n3 bibliographic*)) or (TI (integrative n3 review)) or (AB (integrative n3 review)) or (JN "Cochrane Database of Systematic Reviews") or (TI (information n2 synthesis)) or (TI (data n2 synthesis)) or (AB (information n2 synthesis)) or (AB (data n2 synthesis)) or (TI (data n2 extract*)) or (AB (data n2 extract*)) or (TI (medline or pubmed or psyclit or cinahl or (psycinfo not "psycinfo database") or "web of science" or scopus or embase)) or (AB (medline or pubmed or psyclit or cinahl or (psycinfo not "psycinfo database") or "web of science" or scopus or embase)) or (MH "Systematic Review") or (MH "Meta Analysis") or (TI (meta-analy* or metaanaly*)) or (AB (meta-analy* or metaanaly*)) OR TI(review*)

Web of Science

22 #19 not #20

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=2010-2021

21 #19 not #20

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

#20

TS=(afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR "republic of belarus" OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote divoire" OR "cote d ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "laos" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR "montenegro (republic)" OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philippines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR puerto rico OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan

OR tadjikistan OR tadjik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "vietnam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub saharan africa" OR "subsafrican africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR "caribbean region" OR "caribbean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation?" OR "developing population?" OR "developing world" OR "less developed country" OR "less developed nation?" OR "less developed population?" OR "less developed world" OR "lesser developed country" OR "lesser developed nation?" OR "lesser developed population?" OR "lesser developed world" OR "under developed country" OR "under developed nation?" OR "under developed population?" OR "under developed world" OR "underdeveloped country" OR "underdeveloped nation?" OR "underdeveloped population?" OR "underdeveloped world" OR "middle income country" OR "middle income nation?" OR "middle income population?" OR "low income country" OR "low income nation?" OR "low income population?" OR "lower income country" OR "lower income nation?" OR "lower income population?" OR "underserved country" OR "underserved nation?" OR "underserved population?" OR "underserved world" OR "under served country" OR "under served nation?" OR "under served population?" OR "under served world" OR "deprived country" OR "deprived nation?" OR "deprived population?" OR "deprived world" OR "poor country" OR "poor nation?" OR "poor population?" OR "poor world" OR "poorer country" OR "poorer nation?" OR "poorer population?" OR "poorer world" OR "developing economy" OR "less developed economy" OR "lesser developed economy" OR "under developed economy" OR "underdeveloped economy" OR "middle income economy" OR "low income economy" OR "lower income economy" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR "lamic" OR "lamic" OR "third world" OR "lamic country" OR "transitional country" OR "emerging economies" OR "emerging nation")

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

19 #18 AND #7 AND #2 AND #1

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

18 #17 OR #16 OR #15 OR #14 OR #13 OR #12 OR #11 OR #10 OR #9 OR #8

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

17 TS= ("potential determinants" or "significant correlates of" or ("independent correlates" or "independent

association") or "variables associated with" or "determinants of" or "factors associated with" or "identified determinants" or ("more likely" or "less likely" or "just as

likely") or "risk factors for" or ("significantly related to" or "significant predictor") or (also near/2 "associated with") or ("at increased risk" or "at decreased

risk") or "association* between" or ("positively associated" or "negatively associated") or "differed by" or ("were high* amongst" or "were low* amongst") or ("inverse relationship with" or "inversely associated with" or "inversely related to") or "reverse association" or "differentially affects" or "evidence of a link between" or (significantly near/3 "likelihood of") or "protective factors for" or (differ* near/2 "according to") or (inverse near/2 gradient) or (positive near/2 gradient) or (negative near/2 gradient) or ("trends were" near/3 across) or ("related to" near/3 variable*) or ("differences were" near/3 "explained by") or ("significant among"))

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

16 TS= ("health*care disparit*" or "health status disparit*" or "health disparit*" or "health inequalit*" or "health inequit*" or "medically underserved" or "health services accessibility")
Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

15 TS= ("social exclusion" or (social near/1 (capital or cohes* or organis* or organiz*)) or (community near/3 (cohes* or participa*)) or ((neighbourhood or neighborhood) near/1 cohes*) or "social relationship*" or "social network*" or "collective efficacy" or "civil society" or "informal social control" or "neighbourhood disorder" or "social disorganisation" or anomie or "social support" or "social participation" or trust or "emotional support" or "psychosocial support" or "community capital" or "neighbourhood cohesion" or "social influence" or (soci*context* or soci*-context*))
Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

14 TS=(disparit* or inequalit* or inequit* or equity or deprivation or gini or "concentration index" or "Social class*" or "social determinant*" or "social status" or "social position" or "social background" or "social circumstance*" or socio-economic or socioeconomic or sociodemographic or socio-demographic or SES or disadvantaged or impoverished or poverty or "economic level" or "assets index" or income*)
Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

13 TS= (religi*)
Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

12 TS=(Schooling or "educational status" or (education* near/2 level*) or ((higher or better or worse or less) near/1 educated) or ((higher or better or worse or less) near/1 level* of education))
Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

11 TS= ("sex disparit*" or "sex difference*" or "gender identity" or "sex role" or "sex factor*" or "woman* role*" or "man* role*" or "gender* role*" or servicewomen or "gender difference*")
Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

10 TS= (occupation* or unemployment*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

9

TS=(minorit* or "migration background" or racial or racism or ethnology or race or ethnic* or non?English or "language other than" or latino* or latina* or hispanic* or whites or caucasian* or non?white or "Torres Strait Islander " or aboriginal or "native american " or inuit or eskimo or "first nation* " or indigenous or "english as a second language " or "foreign language" or "cultural deprivation" or acculturation or "cultural diversity" or transient* or migrant* or emigra* or immigra* or "minority group*" or prejudic* or "cultural bias" or discriminat* or refugee*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

8 TS= (neighbourhood* or "residential environment* " or inner?city or "housing instability " or "housing insecurity " or "housing strain " or "housing security " or "mortgage problems " or foreclosure or eviction* or "housing loss " or "home repossession* " or "home ownership " or (repossess* near/3 hous*) or (repossess* near/3

propert*) or "mortgage delinquency " or "mortgage arrears " or "mortgage debt* " or overcrowding or (living near/1 (outside or inside or near* or adjacent)) or (household near/2 size) or ("marital status " or "marriage status ") or (widow* or cohabit* or divorce* or single parent* or live* alone))

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

7 #6 OR #5 OR #4 OR #3

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

6 TS= (emphysema* or asthma* or (chronic* near/3 bronchiti*) or (obstruct* near/3 (pulmonary or lung* or airway* or airflow* or bronch* or respirat*)) or COPD or COAD or COBD or AECB)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

5

TS=(diabet* or IDDM or NIDDM or MODY or T1DM or T2DM or T1D or T2D or non insulin* depend* or non insulin* depend* or non insulin?depend* or non insulin?depend* or insulin* depend* or insulin?depend*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

4 TS= (cancer* or neoplas* or tumor* or carcinoma* or Hodgkin* or nonhodgkin* or adenocarcinoma* or leukemia* or metastas* or malignan* or lymphoma* or sarcoma* or melanoma* or myeloma* or oncolog*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

3 TS=(cardiovascular or ((heart or cardiac or myocardial) near/2 (failure or infarc* or attack*)) or hypertens* or blood pressure or bloodpressure)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC
Timespan=All years

2 TS=("primary care " or "primary health care " or "primary healthcare ") or ("general practi* " or "family practi* " or "family medicine " or GP))

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC

Timespan=All years

1 TS= (review* or (literature near/4 search*) or meta-analys* or metaanalys*)

Indexes=SCI-EXPANDED, SSCI, A&HCI, CPCI-S, CPCI-SSH, BKCI-S, BKCI-SSH, ESCI, CCR-EXPANDED, IC

Timespan=All years

Scopus

((Title-abs-key(review* or (literature w/4 search*) or meta-analys* or metaanalys*)) and (Title-abs-key(("primary care " or "primary health care " or "primary healthcare ") or ("general practi* " or "family practi* " or "family medicine " or GP))) and (Title-abs-key(cardiovascular or ((heart or cardiac or myocardial) w/2 (failure or infarc* or attack*)) or hypertens* or blood pressure or bloodpressure) OR TITLE-ABS-KEY((cancer* or neoplas* or tumo* or carcinoma* or Hodgkin* or nonhodgkin* or adenocarcinoma* or leuk#emia* or metasta* or malignan* or lymphoma* or sarcoma* or melanoma* or myeloma* or oncolog*)) OR TITLE-ABS-KEY((diabet* or IDDM or NIDDM or MODY or T1DM or T2DM or T1D or T2D or "non insulin* depend*" or "non insulin* depend*" or "non insulin#depend*" or "non insulin#depend*" or "insulin* depend*" or insulin#depend*)) OR TITLE-ABS-KEY((emphysema* or asthma* or (chronic* w/3 bronchiti*) or (obstruct* w/3 (pulmonary or lung* or airway* or airflow* or bronch* or respirat*)) or COPD or COAD or COBD or AECB))) and ((TITLE-ABS-KEY(neighbo?rhood* or "residential environment*" or inner?city or "housing instability" or "housing insecurity" or "housing strain" or "housing security" or "mortgage problems" or foreclosure or eviction* or "housing loss" or "home repossession*" or "home ownership" or (repossess* w/3 hous*) or (repossess* w/3 propert*) or "mortgage delinquency" or "mortgage arrears" or "mortgage debt*" or overcrowding or (living w/1 (outside or inside or near* or adjacent)) or (household w/2 size) or ("marital status" or "marriage status") or (widow* or cohabit* or divorce* or single parent* or live* alone))) or (TITLE-ABS-KEY(minorit* or "migration background" or racial or racism or ethnology or race or ethnic* or non#English or "language other than" or latino* or latina* or hispanic* or whites or caucasian* or non?white or "Torres Strait Islander" or aboriginal or "native american" or inuit or eskimo or "first nation*" or indigenous or "english as a second language" or "foreign language" or "cultural deprivation" or acculturation or "cultural diversity" or transient* or migrant* or emigra* or immigra* or "minority group*" or prejudic* or "cultural bias" or discriminat* or refugee*) OR TITLE-ABS-KEY((occupation* or unemploy*))) or (TITLE-ABS-KEY(("sex disparit*" or "sex difference*" or "gender identity" or "sex role" or "sex factor*" or "wom#n* role*" or "m#n* role*" or "gender* role*" or servicewomen or "gender difference*")) OR TITLE-ABS-KEY(Schooling or "educational status" or (education* w/2 level*) or ((higher or better or worse or less) w/1 educated) or ((higher or better or worse or less) w/1 level* of education)) OR TITLE-ABS-KEY((religi*))) or (TITLE-ABS-KEY(disparit* or inequalit* or inequit* or equity or deprivation or gini or "concentration index" or "Social class*" or "social determinant*" or "social status" or "social position" or "social background" or "social circumstance*" or socio-economic or socioeconomic or sociodemographic or socio-demographic or SES or disadvantaged or impoverished or poverty or "economic level" or "assets index" or income*) OR TITLE-ABS-KEY("social exclusion" or (social w/1 (capital or cohes* or organis* or organiz*)) or (community w/3 (cohes* or participa*)) or ((neighbourhood or neighborhood) w/1 cohes*) or "social relationship*" or "social network*" or "collective efficacy" or "civil society" or "informal social control" or "neighbo?rhood disorder" or "social disorgani?ation" or anomie or "social support" or "social participation" or trust or "emotional support" or "psychosocial support" or "community capital" or "neighbo?rhood cohesion" or "social influence" or (soci?context* or soci*-context*))) or (TITLE-ABS-KEY(("health?care disparit*" or "health status disparit*" or "health disparit*" or "health inequalit*" or "health inequit*" or "medically underserved" or "health services accessibilty")) OR TITLE-ABS-KEY("potential determinants" or "significant correlates of" or ("independent correlates" or "independent association*") or "variables associated with" or "determinants of" or "factors associated with" or "identif* determinants" or ("more likely" or "less likely" or "just as likely") or "risk factors for" or ("significantly related to" or "significant predictor") or (also w/2 "associated with") or ("at increased risk" or "at decreased risk") or "association* between" or ("positively associated" or "negatively associated") or "differed by" or ("were high* amongst" or "were low* amongst") or ("inverse relationship with" or "inversely associated with" or "inversely related to") or "reverse association" or "differentially affects" or "evidence of a link between" or (significantly w/3 "likelihood of") or

"protective factors for" or (differ* w/2 "according to") or (inverse w/2 gradient) or (positive w/2 gradient) or (negative w/2 gradient) or ("trends were" w/3 across) or ("related to" w/3 variable*) or ("differences were" w/3 "explained by") or ("significant among"))))) and not (Title-abs-key (afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR "republic of belarus" OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote divoire" OR "cote d ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic peoples republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovan OR mongolia OR montenegro OR "montenegro (republic)" OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR philippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR puerto rico OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadjikistan OR tadjik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub saharan africa" OR "subsaharan africa" OR "africa, central" OR "central

africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR "caribbean region" OR "caribbean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation?" OR "developing population?" OR "developing world" OR "less developed countr*" OR "less developed nation?" OR "less developed population?" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation?" OR "lesser developed population?" OR "lesser developed world" OR "under developed countr*" OR "under developed nation?" OR "under developed population?" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation?" OR "underdeveloped population?" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation?" OR "middle income population?" OR "low income countr*" OR "low income nation?" OR "low income population?" OR "lower income countr*" OR "lower income nation?" OR "lower income population?" OR "underserved countr*" OR "underserved nation?" OR "underserved population?" OR "underserved world" OR "under served countr*" OR "under served nation?" OR "under served population?" OR "under served world" OR "deprived countr*" OR "deprived nation?" OR "deprived population?" OR "deprived world" OR "poor countr*" OR "poor nation?" OR "poor population?" OR "poor world" OR "poorer countr*" OR "poorer nation?" OR "poorer population?" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging economies" OR "emerging nation*"))

ASSIA

(ti((review* OR (literature NEAR/4 search*) OR meta-analys* OR metaanalys*)) OR ab((review* OR (literature NEAR/4 search*) OR meta-analys* OR metaanalys*))) AND (ti((("primary care " OR "primary health care " OR "primary healthcare ") OR ("general practi* " OR "family practi* " OR "family medicine " OR GP))) OR ab((("primary care " OR "primary health care " OR "primary healthcare ") OR ("general practi* " OR "family practi* " OR "family medicine " OR GP)))) AND (ti((emphysema* OR asthma* OR (chronic* NEAR/3 bronchiti*) OR (obstruct* NEAR/3 (pulmonary OR lung* OR airway* OR airflow* OR bronch* OR respirat*)) OR COPD OR COAD OR COBD OR AECB) OR (diabet* OR IDDM OR NIDDM OR MODY OR T1DM OR T2DM OR T1D OR T2D OR non insulin* depend* OR non insulin* depend* OR non insulin?depend* OR non insulin?depend* OR insulin* depend* OR insulin?depend*) OR (cancer* OR neoplas* OR tumor* OR carcinoma* OR Hodgkin* OR nonhodgkin* OR adenocarcinoma* OR leuk?emia* OR metastas* OR malignan* OR lymphoma* OR sarcoma* OR melanoma* OR myeloma* OR oncolog*) OR (cardiovascular OR ((heart OR cardiac OR myocardial) NEAR/2 (failure OR infarc* OR attack*)) OR hypertens* OR blood pressure OR bloodpressure)) OR ab((emphysema* OR asthma* OR (chronic* NEAR/3 bronchiti*) OR (obstruct* NEAR/3 (pulmonary OR lung* OR airway* OR airflow* OR bronch* OR respirat*)) OR COPD OR COAD OR COBD OR AECB) OR (diabet* OR IDDM OR NIDDM OR MODY OR T1DM OR T2DM OR T1D OR T2D OR non insulin* depend* OR non insulin* depend* OR non insulin?depend* OR non insulin?depend* OR insulin* depend* OR insulin?depend*) OR (cancer* OR neoplas* OR tumor* OR carcinoma* OR Hodgkin* OR nonhodgkin* OR adenocarcinoma* OR leuk?emia* OR metastas* OR malignan* OR lymphoma* OR sarcoma* OR melanoma* OR myeloma* OR oncolog*) OR (cardiovascular OR ((heart OR cardiac OR myocardial) NEAR/2 (failure OR infarc* OR attack*)) OR hypertens* OR blood pressure OR bloodpressure))))