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Health inequality in South Africa: a systematic review

Chinwe C. Obuaku-Igwe

Abstract

This study presents a review of key empirical studies on health inequalities in South Africa with the aim of contributing to a comparative examination of social inequalities in health across different countries in Europe and other parts of the World. Studies reviewed were identified through a computerised search of key words such as inequalities, health, health inequalities, race, health in South Africa, health systems, socio-economic determinants of health and livelihoods in South Africa. Studies were included if the primary objective was to explore health inequality as a variable in child/adult mortality.

Introduction

Research has shown that the health of the general population of a nation depends in part on access to health care¹, the major determinants of which range from the availability of health services to the quality and effectiveness of professionals and the financial resources to access general and specialised care by patients². Consequently, it is not surprising that policy makers, practitioners and other stakeholders in the global³ health sector should be concerned about the growing disparities in health especially, despite the intervention efforts by governments.

Researchers show that health inequalities are determined by a range of social factors such as; race, education, ethnicity, gender, geographical location and income amongst others, and these factors reflect on and affect other components of a health system, resulting in poor health outcomes, mortalities and financial losses. This is observed more in Low and Middle Income Countries where life expectancy varies between 36 to 57 years compared to 80 years in high income countries. In South Africa, life expectancy at birth is 61 years (South Africa's life expectancy ranked 162 for females and 169 for males out of the 188 countries) ⁴. Statistics reveal that health inequalities grew. This growth in health inequalities correspond to an increase in income inequalities. For example, income inequality in the country increased from 0.6 in 1994 to 0.679 in 2013. Of significance is the regional variation in health inequalities: for example, in the Western Cape Province where the white population in South Africa are mostly based, health inequalities and indeed income inequalities are stark.

¹ The world health report (2000). Health systems: improving performance. Geneva, World Health Organization, 2000.

² World Health Organization (2006). Quality of care: A PROCESS FOR MAKING STRATEGIC CHOICES IN HEALTH SYSTEMS. WHO, France

³ Howson C, Fineberg H, Bloom B (1998). The pursuit of global health: the relevance of engagement for developed countries. Lancet 1998351586–590.590

⁴ 4 Statistics South Africa (2014) statistical release: Mid year population estimate-2014. Accessed 20/07/2015 available http://www.statssa.gov.za/publications/P0302/P03022014.pdf

Generally, South Africa has a population of 51.77 million made up of different peoples with varied cultures and belief systems. The 2011 population census indicated that of the total population, black Africans make up the majority (79.2%) at 41.9 million followed by coloureds whose population is projected at 4.6million, then the whites also make up 8.9% at a total of 4.5 million while the population of Indians and Asians is estimated to be 2. 5% of the general population at 1.3 million

South Africa is multilingual with over eleven official languages being granted legal prominence as follows-Afrikaans, English, isiNdebele, isiXhosa, isiZulu, Sesotho sa Leboa, Sesotho, Setswana, siSwati, Tshivenda, Xitsonga. Geographically, South Africa's land mass is considered to be nearly one third of the size of the entire European Union⁵. Economically, it is considered one of the fastest growing economies in the world by virtue of its gross domestic product and ranked the world's 26th largest economy. In 2011, the greatest contributors to the GDP by sector were; services (65.9%), industry (31.6%) and agriculture (2.5%). And, by 2012, Statistics indicated that the GDP grew at a rate of 3.2% with education and health being allotted one third of the total state expenditure⁶.

Public expenditure on education in South Africa has been rated one of the highest globally and it is evident in the fact that education is mandatory for all citizens from seven to fifteen years of age or from grade one to nine. Available data from the 2011 census indicates that the ratio of those who have no formal education reduced from 17.9% to 8.6%. In terms of health expenditure, South Africa's is projected to be roughly 8.3% of GDP, slightly higher than the 5% endorsed by the WHO. Yet, inequalities in health persist and evident in health outcomes which are significantly poor compared to other developing countries.

Against this background, the aim of this paper is to provide an understanding of inequalities in health in the country. The paper provides a survey of empirical studies of health inequalities in South Africa with the chief aim of contributing to a comparative examination of social inequalities in health across different countries in Europe and other parts of the world. This paper puts findings from South Africa in context by comparing South Africa with Brazil and Europe in the hopes that doing so would improve understanding of determinants of health inequalities as well as provide insight on commonly used indicators. This review complements previous studies and adds to existing knowledge by providing easy access to a body of filtered and methodologically strong evidence of health inequalities in South Africa. By synthesising results of previous studies on health inequalities in South Africa, this review limits error and bias through identification and appraisal of relevant studies irrespective of design. Given the fact that this study forms part of a comparative examination of social inequities in health across South Africa and Europe (European Social Survey), it is intended to serve as a stock taking review relative to a comparison of inequalities in health among minorities in Europe and South Africa, for the shaping of the proposed study.

6 ibid

⁵ opcit

Therefore, it is my utmost intention that this review would help in determining what is known about health inequalities in South Africa as well as help in establishing knowledge gaps in existing literature. And, by comparing South Africa with other countries, identified gaps could be used to shape further research on health inequalities in Europe and other countries. Although studies have shown that social inequalities in health is widening across social groups and races in South Africa as a result of the apartheid legacy. However, South Africa is not alone in this. Most studies on health inequalities in multiracial 7 and non-multiracial 8 contexts have also indicated similar findings 9. When compared to Brazil and Australia, there is evidence that just like in South Africa inequality in health varies across geographical context and dimensions of social and economic class. National statistics suggests that in Australia, health inequalities are strongly linked with variations in access to education, living conditions in childhood, age, geographical location, ethnicity, race, socio-economic conditions and gender¹⁰.

Using a range of demographics and social indicators such as health status, disability and deaths; utilization pattern and provision of health and welfare services, studies have shown that in Australia, while the general wellbeing of the population is relatively high when compared to most countries, health outcomes and indicators vary across subgroups and populations within the country, particularly, among the aboriginal and Torres Strait Island population. Akin to South Africa, socially excluded or disadvantaged populations in Australia, irrespective of age and gender were mostly associated with lower health outcomes, more likely to suffer frequent ill health, engage in unhealthy behaviour, experience poor health services utilization, less likely to utilise preventive healthcare.¹¹

In Brazil, it is equally evident that social inequalities in health are comparable to that of South Africa. Demographically, both countries share similar characteristics history in terms of racial mix and history in the contexts of deprivation, stratification polarization and discrimination along racial/ethnic lines. While South Africa transited from apartheid rule to democracy in 1994, Brazil's transition from military dictatorship to democracy took place in 1988. Both countries transited into democracy as highly 'unequal' societies, scars from years of racial discrimination and legacies of inequities as a result of despotic rule. Just like South Africa introduced post-apartheid welfare, social grants and 'inclusion' sensitive laws to protect and cover previously disadvantaged population, Brazil introduced similar policies in its health system by focusing more on preventive care for all citizens and ensuring equitable access to health services. However, regardless of Brazils unified health system commonly known as S.U.S, which provides health coverage for all citizens, particularly low income earners, there is evidence of growing and persistent social disparities in health. And, these inequities are driven by educational attainment,

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⁷ Navarro V (1999) Health and equity in the world in the era of "globalization". Int J Health Serv 1999, 29:215-225

⁸ Kunst AE, Groenhof F, Mackenbach JP, Health EW: Occupational class and cause specific mortality in middle aged men in 11 European countries: comparison of population based studies. EU Working Group on Socioeconomic Inequalities in Health

⁹ Kawachi I, Marshall S, Pearce N(1991) Social class inequalities in the decline of coronary heart disease among New Zealand men, 1975–1977 to 1985–1987. Int J Epidemiol 1991, 20:393-398. PubMed Abstract OpenURL

¹⁰ Public Health Information Development Unit (2010) Review of Health Status and Labour Force Productivity and Participation Data with Regard to Chronic Disease: Literature Review. University of Adelaide, Australia. [online] retrieved from: http://www.adelaide.edu.au/phidu/publications/2010-2014/health-status-labour-force-data-review.html

Turrell G, Stanley L, de Looper M & Oldenburg B (2006). Health Inequalities in Australia: Morbidity, health behaviours, risk factors and health service use. Health Inequalities Monitoring Series No. 2. AIHW Cat. No. PHE 72. Canberra: Queensland University of Technology and the Australian Institute of Health and Welfare

race, socio-economic status, income and geographical location (rural-urban differentials and residential segregation based on class and earnings)¹²

For instance, an investigation of healthy life expectancy, deprivation and variations in life expectancy among men in urban Rio Janeiro, Brazil indicated that life expectancy at birth among males living in cosmopolitan and wealthier residential areas were by far higher than those of males living at low cost residential areas and shantytowns. Similarly, life expectancy among the elderly population (both males and females) was significantly higher amongst those from opulent backgrounds and rich sectors compared to the poor¹³. These findings are consistent with studies carried out in South Africa given the fact the issues that characterise social inequalities in health in Brazil reflect the contrasts of wealth and poverty as well as other complexities of social inequalities in South Africa.

Part of discussion section

I hope that this review would contribute to an understanding of the determinants of health inequalities in multiracial, highly unequal and developing societies like South Africa. It is also anticipated that comparing social indicators between Brazil and South Africa would contribute to and help in giving further insights on the determinants of health inequalities as well as putting findings from this review in a proper context. For instance, Brazil and South Africa are rapidly growing economies, members of the BRICs and while South Africa is currently ranked as a country with the highest inequality indexes, Brazil is ninth most unequal country in the world with Gini indexes of 66.0 and 52.7 respectively¹⁴. Then again, in as much as South Africa and Brazil share certain similarities in terms of social indicators of health inequality such as self-reported risk factors, ill health, utilization pattern of health services and health behaviours, generally, there are explicit differences in terms of household income distribution where an average monthly household income for South African homes at R 2,400 was almost forty percent higher than that of poor Brazilians which is pegged at \$10015. Sixty five percent of South Africans dwell in Houses while only 13.6% live in shacks. 77% of South Africans have access to water from regional or local service provider. 85.3% have access to electricity.65.8% of South Africans completed Grade 9 or higher.

Method

The method used for the review is essentially desk based with computerised search of Ebsco, Jstor, Medlink, Pubmed, google scholar, research.edu, Lancet, Riley, Uwc electronic data base, human science research council reports, Statistics South Africa, World Social Science report and other databases. Reference lists of included literatures were also searched for relevant information on evidence and determinants of health inequality in South Africa.

¹² Frederico C G., (2010) Health equity in Brazil. BMJ 2010;341:c6542 doi: http://dx.doi.org/10.1136/bmj.c6542

¹³ Landmann C S., Corrêa da Mota J, Damacena G N, and Pereira T G,(2011) Health Inequalities in Rio de Janeiro, Brazil: Lower Healthy Life Expectancy in Socioeconomically Disadvantaged Areas. Am J Public Health. 2011 March; 101(3): 517-523. doi: 10.2105/AJPH.2010.195453

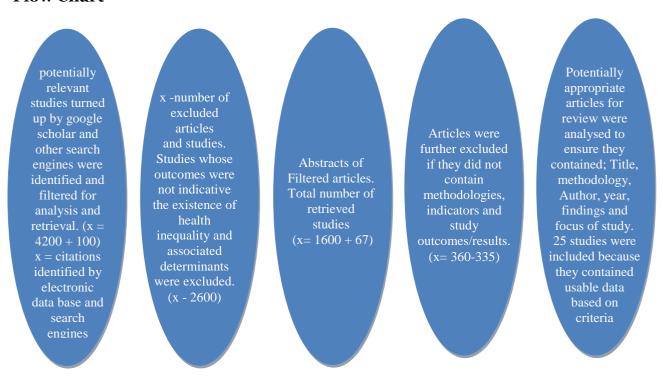
¹⁴ The World Bank. (2014) World Development Indicators.

¹⁵ See : Statistics South Africa : July 2015, South Africa Average Monthly Gross Wage. Retrieved from; tradingeconomics.com/south-africa/wages. Also, National Household Survey of the National Income dynamics study,(2008)

Inclusion criteria

The review focused on searching for titles, abstracts, abstracts and body of peer-reviewed literatures published in 1994 to date using terms such as 'health inequity', 'health inequality', 'determinants of health',' health inequities in South Africa', 'socio-economic determinants of health inequality'. Other key words that were used to expand the inclusion list for relevant literatures during the search are 'inequality', health in South Africa, social exclusion.

Flow Chart



Flow diagram: showing the inclusion and criteria and details of how studies were retrieved, filtered and reduced to suitable sources.

Studies with a mixed population of all racial/ ethnic groups, various age groups, gender, income level, geographical locations (all provinces and residential areas) and socioeconomic status were included in the search without language restrictions. Although selected studies had varying designs, methodologies and datasets; however, the focus was on outcomes that were indicative of the existence of health inequality and associated determinants in South Africa.

The search (conducted from June to November 2015) from the databases listed above turned up 4200 literatures. Out of the 4200 literatures, 100 were based on frequent citations. Out of those, 2600 were excluded because the outcomes were not indicative of the existence of health inequality and associated determinants. Abstracts of filtered articles were retrieved and most studies were further excluded because they did not contain methodologies, indicators and study results/outcomes. Out of the filtered studies, 335 were considered potentially appropriate for reviews. Further analysis was carried out to ensure they contained Title, methodology, year, authors, findings and focus of study. Out of that number, 335 studies were deemed appropriate but further excluded when findings and methodology as well as variables did not relate to health inequalities in

South Africa. Out of the 335 studies that were considered usable, 275 had only abstracts while the remaining 60 contained the full articles. Out of the 60 full articles that came up during the search for 'inequality' in South Africa, only twenty five original studies, using data sets from various yearly household surveys and World Bank data, met the inclusion criteria of 'health' inequality/inequity and determinants of health in South Africa. Total number of 25 studies were included because they contained usable and relevant information based on criteria (x=25).

Sub -thematic selection criteria (social indicators of inequality):

All selected literatures were subjected to sub-theme analysis based on their primary and secondary research findings/outcomes. Major themes used for sub group analysis included the following- health inequality induced or measured by race, ethnicity, adults, children; age; gender, socio-economic status; educational status; adult/infant mortality; employment status; living conditions; access to healthcare; use of health services; nutrition, hunger and access to food; electricity and clean water, living conditions, structural processes/ issues, geographical /residential location, urban-rural differentials and affordability of care.

After collating all relevant literatures based on the themes and inclusion criteria outlined above, in order to check for heterogeneity, the studies were further grouped into six categories for sub-group analysis;

- a. The first comprised original studies and literatures on socio-economic determinants of health,
- b. the second group was made up of studies that were based on paper/document review or policy analysis with historical dimensions of South Africa's apartheid legacy and evidence of post-apartheid health inequality,
- c. The third group comprised of studies that were related to access.
- d. The fourth group was made up of comparative studies.
- e. The fifth group included literatures that focused on the effects of migration on adult-mortality, morbidity and risk of diseases.
- f. While the sixth group comprised studies that focused on evidence of inequality among children; infant mortality and economic status, nutrition, underweight and stunted growth among children as measures of health inequality.

Results and Discussion

The results of the systematic review is presented and discussed in this section starting with a summary and the Table containing the reviewed literature.

Summary of Results

1994- Studies conducted within this period focused on race groups, presented summary and evidence of health inequalities

2002- 2003 - Focused on discussing socio-economic determinants of health inequality among various racial/ethnic groups. The second study also mentioned 'race' as determinant of health inequality in South Africa.

2006- 2007 – focused on migration and its effect on health inequality; analysis of World development indicators such as child and adult mortality

2008- Focused on social/inclusion policies; structural issues/ processes that exclude disadvantaged people (disadvantaged people here meant people of low socio-economic status); determinants of health and trends – analysis of socio-economic policies

2009 – Addressed mechanism that could be used in dealing with the inequities of the past (apartheid legacy); Mentioned race as determinant and suggested pro-poor policies such as child support and health care as the key mechanisms.

2010- paid attention to social exclusion as determinants of health inequality but did not really elucidate or give a precise definition of the 'socially excluded'; the second literature focused on age as a determinant of health inequality

2011- Focused on access to healthcare by analysing socio-economic status, race/ethnicity, household disparities. Other studies conducted in 2011 tend to focus on socio-economic determinants of health inequality but then, specifically on 'race and ethnicity'. However, given the nature of the South African society, which is slowly dealing with the inequities of the past (a form of racial segregation known as apartheid that is characterised by a general economic binary of white as economically well-off and blacks /coloured/Indians as economically poor) black South Africans are majority numerically, but constitute low-socio-economic group, and the findings reflect their experience irrespective of whether they as in socio economic groups.

2012- Focused on evidence of health inequality among children

Table 1: Studies of health inequalities in South Africa

Author &	& Title	Focus of study	Methodology	Findings	comments
John E Ataguba, James Akazili, Di McIntyre (2011)	Ataguba, Jameshealth in equality inInvestigates Akazili, DiSouth Africa: evidencerelated health McIntyre from GeneralSouth Africa; an Household Surveys out whether the change in disea regards to the sy illnesses such a other self-repo among socio ec and the extent has been a chang	Trend analysis of data which Analysed South The study indicates the The trend analysis used data fro Investigates socio-economic Arican General existence of socio-economic previous national survey are related health inequality in Household Surveyinclinations South Africa; and tried to find data from 2002, in self-reported ill-health in burden and patterns among sociout whether there has been a 2004, 2006, and South Africa. The burden of economic groups. (comparative) change in disease burden with 2008. In addition, the major categories of ill-Due to lower earnings which teregards to the spread of specific standardized and health and disability is greater to affect their access to quali illnesses such as diabetes and normalized among lower than higherhealth care, poor people are mo other self-reported illnesses self-reported socioeconomic groups. Nonprone to all kinds of disease among socio economic groupsillness and communicable disease such as Authors proposed taking int and the extent to which theredisability focused disease and other disease sectoral action to tackle heal has been a change since 2000. directories were considered disease of the inequity in South Africa. also used to rich was evident among poor evaluate the people. And, these poor	of data which Analysed SouthThe study ocio-economicAfrican Generalexistence of inequality in Household Surveyinclinations of tried to find data from 2002, in self-reported burden with 2008. In addition, the major read of specific standardized and health and of specific standardized and health and of standardized and health and of standardized socioeconomy on mic group sillness and communical of which there disability focused diabetes are since 2000. directories were considered also used to 'rich' was every and the people. As evaluate the people. As	South The study indicates the The trend analysis used Generalexistence of socio-economic previous national su 2002, in self-reported ill-health inburden and patterns an o6, and South Africa. The burden ofeconomic groups. (compared and health and disability is greater to affect their access among lower than higherhealth care, poor people socioeconomic groups. Nonprone to all kinds of and communicable disease such as Authors proposed take focused diabetes and other disease sectoral action to tack were considered disease of the inequity in South Africa. It the people. And, these poor	related Trend analysis of data which Analysed South The study indicates the The trend analysis used data from ality in Investigates socio-economic Surveyinclinations General South Africa; and tried to find data from 2002, in self-reported ill-health in burden and patterns among socio change in disease burden with 2004, 2006, and South Africa. The burden of economic groups. (comparative) change in disease burden with 2008. In addition, the major categories of ill-Due to lower earnings which tend regards to the spread of specific standardized and health and disability is greater to affect their access to quality illnesses such as diabetes and normalized and health and disability is greater to affect their access to quality illnesses such as diabetes and normalized socioeconomic groups. Nonprone to all kinds of diseases, and the extent to which there disability focused diabetes and other disease such as Authors proposed taking inter and the extent to which there disability focused disease and other disease sectoral action to tackle health has been a change since 2000. directories were considered disease of the inequity in South Africa. Revenue of the street and patterns and socioeconomic groups in the extent to which there disability focused disease of the inequity in South Africa. Also used to include the extent to be a change since 2000. directories were considered as a poor proposed taking interpretation and the extent to be a change since 2000. directories were considered disease of the inequity in South Africa.
Lungiswa LExpla Nkonki, Mickeysocio- Chopra, Tanyachild M Doherty,inequ Debra Jacksonmulti and Bjarnethree Robberstad South (2011)	swa LExplaining householdFocuse ci, Mickeysocio-economic relatedinequa a, Tanyachild healthHIV Doherty,inequalities usingvaccini Jacksonmultiple methods ingroup Bjarnethree diverse settings inAfrica. rstad South Africa.	lities in child mortality, transmission and ation coverage among a of infants in South	ring Used The sandtechnique to differences and technique to differences at least poor inequalities infamilies. Three' child health There was outcomes. Also major di used concentration measured index to sum upoutcomes. Inequalities in the sample, it three' health disease (I outcomes. was highe outcomes.	Used The study detected The observed inequalities decomposition inequalities and significant mostly due to the racial resistechnique to differences in the availability segregation and disparit Identify factors of infrastructure amongstincomes. That determine least poor and most poor This shows that resist in families. Incation and income affects three' child health There was also evidence of an extent determines in disparities in all and families ability to access used concentration measured child health services. These factors index to sum upout comes. Within same influence health in addition, three' health disease (HIV) transmission residential areas seemed outcomes. Was higher among children mostly affected by poor	Used The study detected The observed inequalities were decomposition inequalities and significant mostly due to the racial residential technique to differences in the availability segregation and disparities in Identify factors of infrastructure amongstincomes. That determineleast poor and most poor This shows that residential inequalities infamilies. I location and income affects and to three' child health There was also evidence of an extent determines individuals outcomes. Also major disparities in all and families ability to access health used concentration measured child health services. These factors also index to sum upoutcomes. Within same influence health seeking inequalities in the sample, it was observed that behaviour. In addition, black three' health disease (HIV) transmission residential areas seemed to be outcomes. Was higher among children mostly affected by poor socio-

that had attempted on various aspects Inequalities in children toto inequality in the sense that it is mong children impoor access to health services. From one generation to another in South Africa by The authors noted that the family. First, delineating survival and development of In the same way, the apartheid poverty and children as well as their paths legacy of health inequities has inequality, then in life are influenced to apersisted despite efforts made by went on to some extent, by their sociothe government at providing social highlight a number economic grants for the poor. These	Country Social determinants of health The study used a The review of university The literature proposed that when inequality – structural andreview of curriculacurriculum and interviews there is improvement in the economic drivers of health like literatures, as with various stakeholders general conditions of daily life – inequity and how Socialwell as in-depthacross sectors indicated that such as those in which people are determinants of inequalities are interviews within equities in the distribution born, develop, live, work, and age, being taught in universities stakeholders of finances, power, and social-it would help in closing the gap in across South Africa. Sectors in Southmajor determinants of health Africa. Sectors in Southmajor determinants of health Africa. On WHOAnd, these social factors Commission on appear to be the essential	an on the ission ainants
data from var at had attem poverty	Social determinants of health The study inequality – structural andreview of economic drivers of health literation literation and how Socialwell as determinants of inequalities are interviews being taught in universities stakeholde across South Africa. Sectors in Africa. Africa. Als On Commission Commission Commission	A review of three categories of Policy social inclusion policies (cash-based transfers; free social services; Command institutional arrangements Social for programme integration) Detern that can impact on health Health inequalities in South Africa, Nigeria, Ethiopia, Botswana, Mozambique, and Zimbabwe.
andSecondary data Anstudies that h andmeasuring p inequality	ySocial determinant inequality – stru economic drivers inequity and h determinants of ine being taught in across South Africa.	LCI, deCan social inclusion review of three CA,policies reduce healthsocial inclusion po BGinequalities in subtransfers; free so Saharan Africa? Aand institutional rapid policy appraisal. for programme that can impact inequalities in Sinequalities in Singeria, Ethiopia Mozambique, and
u u	Africa Countr	educe healt ss in su Africa? cy appraisal.
K.,&Children Linequality: introduction overview	South Afi	de Can social inclu CA,policies reduce he BGinequalities in Saharan Africa? rapid policy apprais
Hall, K., Woolard, (2012)	INDEPTH Training an Research Centres Excellence INTREC (2007).	Rispel LCI, d Sousa CA Molomo B6 (2009)

J P Ruger andGlobal H-J Kiminequa (2006) interna compa	lities: trional rison	health Focused on gaps in the Data was analysed Bivariate and multivariate Inequalities in child and adult an literature on health inequalities. Analysis from the analysis indicated that all 9 mortality are global issues, huge, in work on inter-country World countries that had high adult growing, and mostly linked with inequalities, on the use of a Development countries that had high adult growing, and mostly linked with inequalities, on the use of a Development mortality and the 23 with and health variables by clustering techniques) and database that was located Sub-Saharan, Westernsuch as poverty, income, disease on the identification of "healthcompiled by the Africa and Afghanistan. Burden, living conditions, access to gaps" for development policy World Bank. Bivariate analyses showed health services, etc A systematic study that comparative to countries of cross-national with low infant mortality, inequalities in those with high infant adult and childmortality had considerably mortality groups populations living in rural mortality groupspopulations living in rural
Bradshaw (2008).	D.Determinants of healthReviewed and their trends. determina changes Africa.	ealthReviewed post-apartheidThe study usedFindings indicated generalThe study did not indicate how the determinants of health, and analysed datapost-apartheid economic growth impacted various changes in health in Southbased on a fewgrowth which was directlysocial groups and the extent to governmental related to socio-economicwhich the living conditions of each development policies and seemed to impactracial / ethnic group were reviews indicatorspositively on living conditionsimpacted by social and economic such as: midtermby improving accessing topolicies. development basic social amenities. review indicators, Although, access to water, the macro-socialsanitation and electricity was review; Statisticsrelatively poor in certain parts South Africa — of the country. StatsSA (1996-Disparities in health were 2007 data) and attributed to mainly to

case The study focused on different Qualitative social method: informantinclusion policies in Southlinequality in South Africa is as a exclusion; the effects of thoseinterviews. Africa focus on dealing withresult of structural issues / ideas on well-being; as well as potential policies that could tackle the process of exclusion while reducing the inherent measurement of the exactrisks. Authors suggested further scale of inequality in health. Sectoral actions towards measuring	time Focused on examining causal Health and Socio-Findings indicated that social The focus here was on Social salityrisk factors for diseases Survey. Benegraphic exclusion was a major determinants of health in rural determinant of Health amongareas. Excluded urban areas and the sample population. did not highlight the cultural Migrants have a tendency tocomposition (black Africans, live far away from labourwhites, coloureds or Indians) of markets, healthcare facilities the sample population. The study and without proper access to indicated that when compared to sanitation and electricity, South Africans, migrants hence, their living standard is (Mozambicans) faced a higher relatively low and oftenhealth risks due to ethnic/ racial	Socio The study showed that The study generally shows that Migration is a significant short term migrants and people determinant of adultwho migrated more often had a mortality. Findings showed higher tendency of facing HIV that survey participants whorelated death than those residents moved from places outside who rarely migrated. the survey site surveillance area to seek residency in surveillance area (external migrants) faced
Qualitative method: informai interviews.	Health and Soci	Health and Soc Demographic Survey- HDSS
caseThe study focused on differentQualitative ocialconcepts and policies of socialmethod: in exclusion; the effects of thoseinterviews. ideas on well-being; as well as potential policies that could tackle the process of exclusion while reducing the inherent impact of inequality in health.	Space and time Focused on examining causall K, clustering of mortality risk factors for diseases P, in rural South Africa A, (1992-2007). M.	nk between immigration dult mortality in South
on African	d uth A	impact 1 on in rural Do I nto rural
Rispel LC. South AMB, Dumel S.study (2008). exclusion	\mathbf{N}	G.
Rispel LC. MB, Dum (2008).	Sartorius B, Kahn Vounatsou Collinson Tollman 2010.	Welaga (2006).

Short term migrants were Migrants face ethnic and racial more likely to die comparedresidential segregation which could to long term migrants and be associated with or considered a Residents due to exclusion causal factor of racial health and adaptation processes. South Africa is a country that is rich in diversity, and its diversity is visible in variations that cut across the following: Educational differences, ethnic differences, gender differences, gender differences, class differences and age-group differences. And these difference tend to affect socio-economically	sectional Results from the study The study formed part of literature indicated that poor peopleon socio-economic determinants of (those who earn lessermental health within a residential income) and those with lowgroup in South Africa. Mental educational qualifications illness has been considered a factor faced higher risks of suffering of heal mental disorder in the sub Here, Gender, income, educational district (rural) of Agin-court, achievement and economic whereas, in the semi-urban opportunities were cited as the key location of Khayelitsha, determinants of mental health. unemployment particularly And, mental health has been amongst females posed aquoted as a common health higher risk. Respond to the semi-urban particularly and disorder among social and economic minorities. This study raises valid questions about the possibility that residential
Survey	fstudy
Migration and mortality	J, Common mental health Assessment of the incidence Cross M, problems in historically and associated risk factors of study L, disadvantaged urbanmental health conditions in a M, and rural communities sub-district and sub-urban in South Africa: location of Khayelitsha in the prevalence and risk Western Cape province of factors. South Africa.
SJ,Returning home to die:Migration and mort MA,Circular labour K,migration and K,mortality in South SM.Africa.	J, Common mental health Assessment of M, problems in historically and associated L, disadvantaged urbanmental health c M, and rural communities sub-district an in South Africa: location of Kha; prevalence and risk Western Cape factors. South Africa.
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Ng N, Kowal P, Health Kahn K, Naidooamong N, Abdullah S, women Bawah A, Asia: (2010) eight Demog Surveill sites in WHO-S Glob H.	inequolder merin Africa evidence Health raphic lance SadGE SadGE Sealth Actio	mparative study amouses internation data to determine the of demographic and conomic variably upon health measure people in Africa and explanations for the explanations for the beascribed applied and social determinants.	study among Longitudinal Generally, the study showed The South A international Analysis of Surveythat Older men have betterplace at etermine the data using self-reported health than Demographic ographic and abbreviated formolder women. There were Agincourt and variables of WHO – SAGE visible variations in socio-gender variation of global economic factors such as: age, reported well n Africa and Ageing and adult marital status, household suggestions igate genderhealth) Wave Isocio-economic status, studies that chealth and instrument. educational status and living understanding ons for these Study population arrangements. In addition, it individual as how they was a total of was noted that various health determinants scribed to 46,269 participants fields such as pain, sleep and observed gency and socio-; male and femalewellbeing contributed in health round and above, whom ranking for men and women evidence base were studied in each country. Programmes properties and properties and properties and other programmes petween 2006 and petween 2006 and properties and properties and properties and properties and properties and properties and petween 2006 and petween 2006 and petween 2006 and petween 2006 and properties and properties and properties and properties and petween 2006 and petween 2006 and petween 2006 and properties and properties and properties and properties and properties and petween 2006 and petween 2006 and properties and propert	South African at the F graphic Surveil ourt and showe r variations in ted wellbeing. stions regardi stions regardi standing of oth dual and ninants to ved gender relat alth could be a will lay founda nce based resoun other health
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Benatar ST S S S S S S S S S S S S S S S S S S	SThe challenges health disparities South Africa	of The socio –economic factors Policy in that influence health in South National Africa. Insurance health in South National Africa.	analysis- Health e.	analysis-The key determinants of an Health inequality in South Africa Healthindividual's health start at the was highly influenced by racial mental, physical and residential segregation and nutritional wellbeing of the differed by race/ethnicity as well pregnant woman at a geographical region. e.g. while conception and childbirth Kwazulu Natal had higher then continues throughout mortalities, western cape province the life span of the child. had lesser. Within western cape Maternal literacy and province, while those in the wellbeing influence the sociometropolitan suburbs had economics status of the childrelatively lower mortalities, the and contributes in a greatpeople in Kyhelitsha a sub district, measure to improved accesshad higher mortalities. Between to nutrition, sanitation and livingrecorded poorer health outcomes conditions which are factors (higher mortalities) compared to that improve or limit goodwhites and Indians Although living conditions have improved reasonably since the end of apartheid in
				1994, free market structure and rapid urbanisation has

When compared to whitesout of three black Africans, one and Indians/Asians, blacklived in the rural areas, in informal African population in Southlocations within urban areas or on Africa suffered the highestwhite owned farms where timely form of socio-economicaccess to health services and deprivations. The high levelamenities are relatively challenging of depravity among the blackcompared to other social / racial African population wasgroups. South Africans, 7% coloureds, variables; Poverty, public20% whites and 3% Indians. And, health conditions, livingof the total sum of black Africans, conditions such as housing,54% live in rural areas, former sanitation and honelands or white owned farms access to drinking water, and use public health facilities? Overall, poor living conditions; ach as long and poor public health madedistances, lack of transportation black Africans mostand lack of health insurance. vulnerable to ill health/While, on the other hand, whites resulting in higherand Indians live in metropolitan mortalities. The study found that physicalprivate health facilities, sometimes and emotional health aresubsidised by employers and the thoroughly interwoven;government. Consequently, the individuals who werewages of the majority black unhappy or worried aboutAfricans reflect in their choice of their socio-economic status/residential locations; poor living wellbeing were more likely toconditions, access to amenities, suffer anxiety, depression/health and social services as well as mental health disorders and the resultant poor health poor health compared toputcomes. Furthermore, while those who were satisfied withliving conditions their socio-economic status, are determined by race, income Furthermore, the studyand educational attainment, effurthermore, the studyand educational attainment of their by enconomic status, are determined beyond race and residential or geographicaleconomic status.
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Mackintosh	Health Care Commercialisation and The Embedding Of Inequality	Health Care Systematic observations of the Case study - The study did not provide The study examines the burdens Commercialisation and analysis of researchand effects of formercialisation and protection; available data findings showed that the health care by conducing that in comparative study of Mali, The followingsouth African health system is increases health inequality, and Switzerland. The study alsoglobalisation economic lines where the richthe challenge of affordability is focuses on exploring the extentand inequality, white population haveand binders and in some instances healthcare and how this is and Health, Education, medical insurance cover and impacts negatively on social evaluation in income and economic services whereas, the poor health. Income inequality, and mostly black Africans and development, and mostly black Africans and development, and mostly black Africans and evaluation social development insurance therefore, are and social development sector or made poorer by the hostly the context of protection/pensio sector or made poorer by the health.
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Eyob Zere (2002)	Zere Addressing health Empirical inequalities in Southexisting Africa: policy insightsinequality and the role ofregards improved efficiency self-reportant use providers	assessment state of and trends to infant me ted illness, of various in adulthood.	the rvey alysis secondary lected fro ing Stau l Develo rvey (LSI 93, tistical olications vincial oartments tober	of the Southmoteation of health inequality probability. That childhood healthanalysis and Study showed that The study and analysis was based healthanalysis membership of a whiteon old data that was collected in swith of secondary datahousehold and living in the 1993. There is possibility that the disease Living Standardsmortality and morbidity rates, totally descriptive of the service and Development The study also showed that investigated variables. This study Survey (LSDS) of mortality and morbidity rateupholds findings from other 1993, annual was significantly higherstudies that geographical area and statistical among Black African infantsrace were the fundamental publications of children living in rural areas determinants of health inequality provincial health recorded higher incidence of in South Africa, outside gender and departments and ill health and death compared income. October to those in urban areas and

Studies of Health Inequalities in South Africa: Overview

In South Africa, inequality is greater today than at the end of apartheid, Oxfam (2014). Studies by the World Bank (2012) have shown that health inequalities in SA are influenced by various factors such as educational level, income, race, gender, geographical or residential location and these factors vary among different age groups and geographical location. Agatuba et al (2011) and Gakidou (2000) defined health inequalities as the variations in health status across individuals in the population. Regardless of the operational definition or dimensions of analysis, inequality remains one of the most debated issues on the South African socio-political agenda and one that draws attention to the Country's economic growth which apparently has not impacted much on the welfare of the people. Inequalities in health has been associated with a broad range of poor health outcomes for minority, socially excluded and disadvantaged groups of poor health outcomes for minority, socially excluded and disadvantaged groups for the common issues associated with variations in health among various socio-economic and racial/ethnic groups in South Africa.

What is evident in the literature is that the end of apartheid in the 1990s saw the introduction of a dispersal system where the health system was overhauled to close the inequality gaps in the distribution of health/social services and resources. However although these system reforms and introduction of primary health care may have made inroads in some aspects, it has been associated with disparities among previously disadvantaged people and highly regarded as the intractable legacies of the apartheid rule¹⁷.

Other studies¹⁸ examining post-apartheid poverty and inequalities in South Africa among racial/ethnic population also reported a high level of income inequality at the racial / provincial level, particularly among black South Africans and Western Cape coloured population¹⁹. These studies suggested that health inequalities, low access to healthcare services, income inequalities and poverty among the black population and coloureds in the country were increasing at an alarming rate and had prevailed given the fact that post-apartheid government in South Africa focused more on increasing the country's GDP(economic growth) rather than taking pro poor income redistribution measures

Even though the reasons for the prevalence of health inequities among previously excluded people (black South Africans) remain poorly understood, some studies have attributed it to structural processes while others suggested that at birth, most blacks are born without economic opportunities²⁰. It has been hypothesized that governance deficit, the structure of the South African health system; provincial healthcare stewardship, policy implementation and financial management are significantly associated with health

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¹⁶ Van Rensburg, H. C. (2014). South Africa's protracted struggle for equal distribution and equitable access–still not there. Hum Resour Health, 12(26).

¹⁷ Ronelle B, Caryn B, Christelle G, Servaas B (2012) Have public health spending and access in South Africa become more equitable since the end of apartheid? Development Southern Africa Vol. 29, Iss. 5, 2012

¹⁸ Zeida R. Kon and Nuha Lackan. Ethnic Disparities in Access to Care in Post-Apartheid South Africa. American Journal of Public Health: December 2008, Vol. 98, No. 12, pp. 2272-2277.doi: 10.2105/AJPH.2007.127829

¹⁹ Özler, B. (2007). Not separate, not equal: poverty and inequality in post-apartheid South Africa. Economic development and cultural change, 55(3), 487-529

²⁰ Woolard.

inequalities sin the country. A similar position has been adopted by Gelb (2003)²¹& Coovadia et al (2009)²² which suggests that health inequalities in South Africa could be traced to governance deficit and apartheid polarization of the country along ethnic and racial lines which post-apartheid government had failed to adequately address. Coovadia et al suggested that post-apartheid government was weak and often executing poor policies that have led to the implementation of macroeconomic policies and the promotion of economic growth rather than redistribution, thereby contributing to the persistence of fiscal inequalities among racial/ethnic groups even with increases in social grants.

Another study suggested that ideological supports, systemic lapses, health sector structural conditions and weak policies have deepened health inequalities resulting in provinces with white majority receiving more healthcare funding and having better access compared to provinces with black majority where access to health services are generally inadequate²³. Stuckler et al (2011) revealed that provinces with better spending capacities are more likely to receive funding than those with greater disease burden/health needs given the fact that those who spend their budgetary allocation tend to build more infrastructure and often have tangible output to show for the expenses.

Another researcher argued that inequitable disbursements and expenditure patterns compared to health needs as well as operational inefficiencies and shortage of bio medical personnel in public health facilities have aggravated health inequities in the country, Harrison (2009)²⁴. Considering the hypothesis that the South African health system funding is tilted in support of provinces/regions with absorptive spending capacities (an apartheid legacy), it would not be out of place to suggest that the general structure of the health system could likely be the core driver of health inequalities in the country.

While most of the hypotheses presented above were based on thorough analysis of imprecise health-related indices and policies, The 2008 NDIS survey provides a report similar to most of the expressed hypothesis and positions. The study reported that 45% of black South Africans did not have satisfactory healthcare coverage, whereas, only 19% whites had inadequate coverage. A similar submission by Gradin (2013) agrees that years after apartheid rule, the percentage of blacks who lived in deprivation was far greater than whites. For instance, 30% of black South Africans in 2008 lived in informal residences, 47% did not own refrigerators, 34% did not have television, 32% did not own radios while 2/3 did not have access to pipe borne water in their homes and sourced water outside, compared to 5.5% of whites who lived in informal settlements, 6% did not own television, 7% did not have refrigerators while 18 percent did not own radios. Generally, fewer than 2% of whites did not have all three of these appliances in their homes; while 12% of Black South Africans lacked the three appliances. These figures by Gradin (2013) sum up the determining factors of health inequalities in South Africa as evident from previous studies

²¹ Gelb, S. (2003). Inequality in South Africa: Nature, causes and responses. Edge Institute.

²² Coovadia, H., Jewkes, R., Barron, P., Sanders, D., & McIntyre, D. (2009). The health and health system of South Africa: historical roots of current public health challenges. The Lancet, 374(9692), 817-834

²³ Stuckler, D., Basu, S., & McKee, M. (2011). Health Care Capacity and Allocations Among South Africa's Provinces: Infrastructure–Inequality Traps After the End of Apartheid. American Journal of Public Health, 101(1), 165–172. http://doi.org/10.2105/AJPH.2009.184895

²⁴ Harrison, D. (2009). An overview of health and health care in South Africa 1994–2010: Priorities, progress and prospects for new gains. Washington, DC: Henry J Kaiser Family Foundation.

which subsequently prompts the question of how these results from South Africa compare with results and statistical indicators from other regions like Brazil and Europe?

Comparing health inequalities in South Africa, Brazil and Europe:

Health inequalities are determined by a range of social factors such as; socioeconomic status, race/ethnicity, education, gender, geographical location and income amongst others, and these factors reflect on and affect other components of a health system, resulting in poor health outcomes, mortalities and financial losses: As such, becomes a concern of global, regional and national policy makers and agencies implementing health related projects and actions. However, even though there is a growing body of evidence documenting inequalities in health distribution and access to health services in South Africa, there seems to be no consensus on what the major social indicators and determinants of health and access to health care should be²⁵. Besides, even though a number of studies present comparative analysis of health systems, there is limited crossnational analysis and systematic reviews of health inequalities in high and medium income countries. Consequently, in order to identify, pre-filter and document evidence of health inequalities, major determinants, similarities and differences among various populations and groups in high versus middle income countries, this section of the paper will compare health inequalities in South Africa, Brazil and the EU member states.

Although this review will not pay particular attention to the comparison of ethnic majorities versus minorities in South Africa, Brazil and EU, the follow up to this (proposed ESS study in South Africa) paper would be operationalised thus: The comparison would be between black South Africans as the majority versus Asians, Whites, Indians, and African immigrants as minorities. In the EU, the comparison would be between indigenous Europeans as majority and immigrants as the minorities. The study would also present detailed analysis of all ethnic and minority groups in SA and immigrants in the EU for a comparative understanding of existing health disparities within the minority groups and possible explanations for such variations.

Although there have been improved international, regional and national level policies aimed at closing the inequality gaps in health between 2000 and 2014, World Bank statistics show that income and health inequalities in South Africa and Brazil remain one of the highest globally²⁶. For example, large percentage of the majority of the population (mostly black) in South Africa still does not have access to health services twenty years after the apartheid rule. Similarly, despite the notable and outstanding success rate of Brazil's national health system, Sistema Unico de Saude-SUS, majority of Brazils rural population do not have access to health services and medicines²⁷.

In addition, just as health inequalities statistics in SA differs across geographical provinces, the same holds in Brazil. In the predominantly white Western Cape Province (mostly urban and richer) of South Africa, maternal mortality figures reflect 27 per 1000

²⁵ De Maio F, (2007) Income inequality measures. J Epidemiol Community Health. 2007 Oct;61(10):849-52. Review. PMID: 17873219 http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2652960/

²⁶ World Bank (2014) World Development Indicators.

²⁷ Ingrid V., Amparo S., Garcia-Subirats I., Ferreira da Silva R., De paepe P., Borrel C., and Jean Pierre U., (2014) Inequities in access to health care in different health systems: a study in municipalities of central Columbia and North-eastern Brazil. International Journal for Equity in Health 2014,13:10. Doi:10.1186/1475-9276-13-10

births while in the predominantly black Eastern Cape (mostly non-urban); the figures are 70 per 1000²⁸. Similarly, in Brazil, the North east has extreme levels of poverty coupled with stunting in children and high infant mortality ratios while the mostly urban areas of south and south east Brazil recorded lower mortality ratios and stunting in children²⁹. Just like in South Africa, inequalities in health in Brazil are driven by factors such as socioeconomic status, living conditions, ethnicity, geographical location and gender. In both countries, poverty, income, residential segregation (for people living in same province), geographic location (rural-urban differentials) educational status, health insurance, gender, and socio-economic condition at birth contribute in great measures to inequalities in health³⁰.

Generally, inequalities in health in both South Africa and Brazil tend to be more prominent at the secondary and preventive care level given the fact that both countries operate pro-poor health systems where primary care is universal and free at public facilities, making it easier for low income earners to gain access to care. Yet, in terms of secondary care, long waiting times, delayed consultation with bio medical personnel and lack of health insurance contribute to inequities experienced by low income earners at this level. Furthermore, while most low income earners in both countries have low access to health insurance, research has shown that they have greater need for healthcare and ironically, lesser access to and utilization of healthcare services³¹.

Apart from Brazil and South Africa, inequities in access to healthcare keeps widening, affecting health outcomes globally, even in developed countries³². Beyond its effect on health outcomes, inequalities account for over one third of the world's urban population living in slums and poor conditions. In financial terms, in the European Union as a whole, health inequalities-related fatalities account for more than 700,000 deaths annually, and over 33 million dominant cases of ill-health³³. While inequalities related losses have led to financial and resource damages in the EU to the tune of nine hundred and eighty billion euro (€980 billion) per year. Additionally, when valued as consumption good³⁴, the losses are evident in taxes and loss of productivity due to ill health, which are estimated at 9.5% of the annual GDP in the EU.

Throughout low and middle income countries, life expectancy varies between 36 to 57 years, whereas in high-income countries, it is 80³⁵. Generally from 2000 to 2010, inequalities in life expectancy at birth amongst EU countries diminished by 10 % for women but only by 3% for men. Correspondingly, infant mortalities reduced between EU countries and same in South Africa. Yet, other dimensions of health inequities such as

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²⁸ Human Rights Watch. "Stop Making Excuses." Accountability for Maternal Health Care in South Africa. Johannesburg: Human Rights Watch. http://www.hrw.org/reports/2011/08/08/stop-making-excuses

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 Pinheiro R., Viacava F., Travasco C., Brito A., (2002) Gender, morbidity, access and utilization of health services in Brazil. Cien Saude Colet 2002,7(4):687-707.
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³² Van D., Masseria C., Koolman X., (2006) Inequalities in access to medical care by income in developed countries. CMAJ 2006,174(2):111-183.

³³ Mackenbach JP. (2006)Health inequalities: Europe in profile. London: Department of Health.

³⁴ Mackenbach J, Willem J, Anton K (2007) Economic implications of socio-economic inequalities in health in the European Union. Published by European Communities

³⁵ World health organization" Fact file :10 Facts On Health Inequities And Their Causes" http://www.who.int/features/factfiles/health_inequities/facts/en/index9.html

income and educational levels keep increasing across borders, within countries and amongst ethnicities/sub populations.

A World Bank report³⁶ published in 2012 on health inequalities in SA revealed that the variances in life opportunities for children in South African were largely due to factors that range from household income, gender to location and race. Likewise, a 2013 study revealed that across the EU, and in virtually all member countries, the self-reported level of health was worse for those with lesser income and educational levels than those with high incomes and education³⁷. These figures reflect widening health inequalities in SA and the EU that could be traced to socio economic factors although the exact scale and reasons for these disparities has not been accurately estimated particularly among minority groups.

Determinants of health inequality in South Africa

The evidence of health inequality and determinants of health inequality among minority groups in South Africa was investigated in 25 existing literatures. Of all analysed literatures, provided evidence of health inequality in South Africa; seven studies discussed and analysed historical dimensions of health inequality in South Africa; two studies examined the effect of migration on adult mortality; an additional two studies examined health inequality among children; another two studies were comparative studies of South Africa and other countries in Asia and Europe (Bulgaria and Switzerland) while eleven studies examined the socio-economic determinants of health inequality in South Africa. Of the eleven studies that addressed socio-economic determinants of health, nine analysis reported that infant /adult mortality, self-reported ill-health, disease burden, use of health services, geographical/residential location, race, public health condition, living conditions and income were associated with and highly influenced health. Of these eleven studies, seven analyses found that out of all racial/ethnic groups, black South Africans, uninsured people, females, children, rural/non-urban dwellers, residents of poor provinces/ neighbourhoods and unemployed people were mostly affected by the determinants of health. While all the studies found a significant association between the socio-economic statuses of black South Africans with health inequality, two analyses found a minimal association between the health of coloureds and residential location (within the metropolitan areas); two analyses found imprecise association between the health of Indians, geographical location and use of health services, while no form of inequity was observed among whites of all ages and gender living in Gauteng and other provinces.

Two studies suggested that race, educational status and gender significantly influenced access to and use of health services which were used as measurable dimensions of health inequality in those studies. Only one study submitted that race and socio-economic conditions of the mother during pregnancy and the child at birth could influence health in adulthood. Thus, evidence of health inequality and socio-economic determinants of health were obvious.

³⁶ World Bank, (2012). South Africa Economic Update: Focus on Inequality of Opportunity. World Bank, Washington DC.

³⁷ European Commission (2013). Health inequalities in the EU — Final report of a consortium. Consortium lead: Sir Michael Marmot. Published by the European Commission Directorate-General for Health and Consumers. ISBN 978-92-79-30898-7 doi:10.2772/34426 http://ec.europa.eu/health/social_determinants/docs/healthinequalitiesineu_2013_en.pdf

The evidence of health inequality and its determinants in South Africa were the focal points of this study. And, given the apartheid legacy of inequities in income distribution and dispersal of social infrastructures in the country, two analyses attributed growing inequities in health to income inequality which is associated with the free market policy of post-apartheid government; Van et al (2014). This free market policy has been accountable for widening inequities in income within racial groups and has ultimately rubbed off on health, thereby, necessitating timely interventions in the form of pro-poor policies.

Generally, the methodologies of all included 25 literatures differed given the fact that they studied different variables. However, the outcomes and findings presented, indicated similar evidence and consensus on the existence of health inequality in South Africa, post –apartheid. For example, Hirschowitz et al (1995) assessed selected variables that are descriptive of inequality and found evidence that Black South Africans were still marginalised in terms of access and use of healthcare services. In all studies, morbidity, self-reported ill-health of selected health conditions, living conditions, race, income and geographical locations featured prominently, however, neither of the studies delved deeper into the causes of all self-reported health conditions noticed in all social/racial groups. For instance, Ataguba (2011) observed that there was prevalence of stroke and diabetes (disease of the affluent) among poor people but did not provide further explanations for this incident among poor people who are mostly black South Africans.

Results from all studies could not be pooled based on the fact that the study designs and sample populations differ significantly. Moreover, the use of various variables as dimensions of health inequality presents a core challenge in measuring health inequality among minority groups in South Africa given that fact that observed indices in one social/racial group might be different and not visible in another racial group. Although there was consensus regarding the existence of health inequality and its social determinants in South Africa, fitting the variables used in original studies was quite challenging since methodologies and datasets differed greatly and could hardly be quantified.

Given the fact that only literatures and articles which mentioned health inequality and factors that influence inequities in health in South Africa were selected, it limited the scope and sample size. While this review applied a rigorous selection / inclusion process, the major limitation is the fact that due to time constrain and protocols regarding copyright/ permission for use of most print materials, most print materials and unpublished national surveys within the context of health inequality were excluded.

Out of all the studies, the most frequently cited determinants of health were race, structural processes, poverty, income and geographical /residential location. In addition, gender, employment opportunities, socio-economic status, educational attainment, living conditions and medical insurance were mentioned. A regression analysis of studies revealed significant differences of (p< 0.01) in terms of selection of variables and methods as well as several perspectives on determinants of health inequality in South Africa. However, in spite of the heterogeneity across studies, the combined agreement/consensus

on the evidence of widening health inequality among (previously excluded or disadvantaged) black South Africans and poor people was 88%.

An evaluation of research methods, study samples and variables indicated that geographical location was significantly associated with health. However, 30% of the studies that were specific to particular provinces or conducted in the rural areas did not have the right mix of all racial/ethnic and socio-economic groups. Only those studies conducted with national data could perhaps, be said to have representative samples of all racial/ethnic groups. Most of the studies ignored rural-urban differentials in their conclusions and this factor alone, was considerably associated with the variability of health inequality among people of same race/ethnicity (blacks, coloureds and Indians) except whites.

Literatures that focused on analysis of policies and policy documents from 1994 till early 2000s found significant association between redistribution of wealth, social grants or increased income with variables like race, living conditions, sanitation, malnutrition (underweight, stunted growth), hunger, gender and age. Surprisingly, studies conducted in the context of policy analysis related, without clearly defined variables and sample population were significantly associated with determinants of health inequality among poor people, older people, children and women.

Neither studies using previously collected yearly national survey data or those using World Bank data revealed significant variances in their results. Studies using national survey data from 1994 to 2003 were significantly associated with socio-economic determinants of inequality while those from 2006 till 2014 indicated higher association with emerging trends (such as access to healthcare, mortality rates and prevalence of diseases among adults and children of all races/ethnicities) and the role of social processes as drivers of health inequality in South Africa.

Geographic location / racial residential segregation were also linked with major differences in health among black South Africans resident in Gauteng / rural or non – urban areas and that of coloureds in the Western Cape and those in other metropolitan suburbs. There were significant variations in health and socio-economic determinants or Estimates from blacks and coloureds that had lived longer or permanently in urban areas than those who lived in sub-districts, non-urban/rural areas or recently migrated to the suburbs for economic reasons.

Conclusions

The systematic review of literatures reveals what can be highlighted as follows: Evidence of health inequality among black South Africans, coloureds and Indians; analysis indicated 75% of black South Africans were more affected compared to coloureds and Indians.

Limited evidence of health inequality among whites; infants and older people Although the methods, variables and samples differed, the results of all analysed studies were similar and reinforced the notion that 21 years after apartheid and the introduction of social grants, health inequality exists in South Africa. Heterogeneity and variances in methods and measured variables in analysed studies reflect lack of consensus on acceptable measures/indices of health inequality.

Poor research on inequality in health related issues among ethnic minorities beyond provincial and urban/rural differentials.

No significant variation in health was noticed among whites regardless of their provincial / residential location. Besides, the only apparent explanation might be the association between the socio-economic status of whites at birth and the apartheid rule which had favoured whites over blacks and coloureds and still continues due to structural processes that tend to replicate the apartheid system.

In terms of health inequality being associated with income, years after apartheid rule, the legacy lives on and reflects in wage structure which appears to follow existing racial lines by maintaining a higher remuneration for whites who have higher chances of being employed with return to education estimated at 43%, compared to their black counterparts with similar qualifications who settle for lesser wages due to low employment opportunities and approximate return to education as low as 7%. From the foregoing it is evident that using same demographics and given opportunities/choices open to whites, inequality rates among Black South Africans reduced considerably. However, even though race, income and education score high as major influencers of health and health seeking behaviour, factors such as fertility rates, family background, religious/cultural beliefs and large number of children/ households tended to influence health (inequalities) amongst blacks (African descents and coloureds) at all socio economic levels compared to whites and Indians/Asians.

The implication of the observed trend of general inequality on health in South Africa is that between races, inequality exists, is on the rise and explains poor health outcomes, low access to health services and health seeking behaviours among racial groups. And, within sub populations, health inequalities among black South African population is highest compared to whites and Indians/Asians and has increased significantly post-apartheid. Moreover, health inequality within residential locations has increased resulting in rural areas being disadvantaged in terms of availability of health resources/personnel due to health workers migrating to the urban areas and inequity in provision of health services as well as financing by the government being channelled towards urban areas where migrants/workers with higher earnings live and are able to pay /utilise services.

The concepts of 'literacy rate (illiteracy)' and 'income/earning differentials ' amongst others, have been used by scholars to structure the challenges that characterise inequalities in South Africa which are direct results of limited opportunities and racial/ethnic discriminations brought about by the apartheid legacy. Some of the effects of limited opportunities and racial discriminations include illiteracy, poverty, poor living conditions, racial residential segregation, mental health, maternal and infant mortalities, low health insurance coverage, poor access to health services and medicines, discrimination in health settings, disparities in quality of treatments and infectious diseases. Much worse is the fact that beyond racial differences, illiteracy and low income limit socio economic development of minority groups, increases chances of them living in

poor conditions/unsafe vicinities where they are likely to pick up infectious diseases (faster than their more privileged counterparts who are born with better opportunities) and, in the case where they are able to access public health facilities, they are prone to experience disparities in treatment as well as other forms of discriminations in health settings.

The recent health inequality related protests by public health personnel and COSATU over the two-tier health system where tax rebates and other forms of government funding are channelled into the private health sector which services 8.5% of the population, majority of whom are whites compared with low funding of public health sector that caters for the health needs of over 43.8 million people who are mostly blacks. There are speculations that this trend in health inequalities represents a new form of economic apartheid where health affordability by the rich is being wielded as a weapon of oppression comparable to racial apartheid where whites oppressed blacks. Moreover, health inequalities in South Africa are divided not just along racial lines but by gender and residential areas. Within the racially disadvantaged groups, black women are more likely to be affected by inequalities in health. In addition, those in sub districts within metropolitan cities tend to face similar challenges as those in rural areas who patronise public health facilities. In addition, among the white population, White south African males over the age of 45 are the worst hit by socio economic inequalities given the fact that they are considered part of the old dispensation (apartheid system) therefore as the previously advantaged people, they are made to go without a lot of social benefits and make up the bulk of unemployed. Besides, rising cost of living appears to be the most difficult challenge faced by this group of South Africans who make up the larger part of unemployed whites.

Although a number of scholarly literatures have sought to identify socio economic determinants of inequalities in health among various racial populations in South Africa (Agatugba 2011 & 2012; Wakeford 2001; Keswell 2010; Gradin 2013; Bradshw et al 2008), studies that apply sociological perspectives, intersectional approach and particularly, cross national comparisons to this occurrences among minority groups in developed and middle income countries is mainly limited.

For example, Goesling & Firebaugh (2004) studied trends in international health inequality by comparing average life expectancy among 169 countries from 1980 to 2000. In addition, Beckfield et al (2013) examined cross-national variation in inequalities in health among 48 countries and found significant disparity in health inequalities by gender, migration status, education and income. The relative lack of sociological cross national studies on not just structural conditions but ideological support that influence health inequalities among sub populations in mixed race societies is a particularly major omission. Given the fact that applying a sociological approach to cross national studies typically would reveal how government policies, dominant values and social/health structures contribute to and sustain inequalities in health. It is in this regard, that the effort of this paper can be viewed and the systematic review of the empirical studies of health inequality in South Africa can be considered as a useful contribution to the comparative examination of social inequalities in health across different countries in Europe and other parts of the world.

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