A Health Status Update on Women in African Countries:

Current Statistics, Critical Dilemmas and Key Correlations

Dr. Andrea Smith-Hunter Siena College 515 Loudon Road Loudonville, NY 12211 ahunter@siena.edu

Maria Carzo (Student) Siena College 515 Loudon Road Loudonville, NY 12211 mr07carz@siena.edu

Gabrielle Hunter (Student)
University of Toronto
12 Dutch Meadows Drive
Cohoes, NY 12047
gabbychampion101@gmail.com

INTRODUCTION

This article provides a comprehensive and insightful overview of women's health on the African continent, bringing to light unique challenges, and key issues pertaining to the well-being of women in Africa. The issue of women's health remains of paramount importance for a number of key reasons. In view of this, it makes sense to engage in an in-depth perusal as a first step to analyzing pressing issues on women's health. To understand what is taking place with women's health in Africa, this paper looks at a number of key variables: population, age structure, median age, mother's mean age with their first born, maternal mortality, infant mortality, life expectancy, fertility rate, contraceptive rate, current health, physician density, hospital bed density, HIV rates for women, obesity rates for women and the percentage of underweight children per country. These variables are touted as critical to determining the status of women's health in society.

These key health variables play an important role in deciphering women's health and are analyzed using World Factbook data from 55 African countries from five African subregions: Northern Africa, West Africa, East Africa, Central Africa, and Southern Africa. The World Factbook provides basic intelligence data on the history, people, government, economy, energy, geography, environment, communications, transportation, military, terrorism and transnational issues for 266 world entities and countries. Overall, the goal is to construct a coherent aggregate and logical argument to understand women's health in that region of the world.

This is the first known comprehensive assessment of statistical data on the African continent and thus takes a critical step in analyzing what deficiencies exist in women's health. It harbors implications that extend beyond a mere statistical focus through a critical exploration of solid and relevant statistical data. The purpose of this paper is an important step in laying out what areas to focus on: finances, policy recommendations, and social and medical policies to alleviate or eradicate women's disadvantaged health position. An agenda that addresses these disparities can now be set forth with a vigorous and extensive analysis on women's health in Africa that derives a picture that paints women across various African countries in a precarious position. There are some disparities and some variations expected across different regions of Africa, in terms of the statistical data.

The prospective important findings from the analysis in this paper will set the stage for this rich data, which provides concrete evidence of exactly what is taking place and how this information compares across countries. The issue of women's health from a comprehensive perspective has long been considered an important issue but has never gotten due process. A logical explanation is that such an undertaking is too overwhelming and extensive, with 54 countries and five regions that are not easily or inexpensively covered. The reason for the disparity in women's health disparities across countries is based on economic, social, and political challenges and is parlayed into differences in the quality of healthcare received. Nelms et al (2006) spoke in their

article about healers that often bridge the gap between no health care and that received from formal settings.

This is a rare study that aims to provide a comprehensive analysis across all African countries regarding women's health. It represents the first main release of information in one location on certain key factors that are related to women's health in that region of the world. Yes, The focus of some studies on this topic has engaged in a discussion that has been monolithic in focus on a particular geographic area in Africa (Hyder et al, 2005; Pick et al, 1997) - these perspectives were undoubtedly important - but across Africa, encompassing all African countries has unequivocally never be done until now. The preceding discussion begs three main questions:

The present study will examine women's health across Africa and attest to the importance of a detailed discussion on the importance of women's health to a society's overall well-being. What does the projected future look like for women's health in Africa and indeed across the world? For sure, it is evident that future women's health includes women's reproductive rights and health (Hom, 2003; Coburn et al, 2015; Yaya et al, 2021), which remains a key component of what serves as an explanation for other aspects of their health (Mocumbi et al, 2012).

LITERATURE REVIEW AND STATISTICAL DATA

It is important to note two key focus in this section of the paper. First, it explores the many issues that are related to women's health on a national level. This will entail looking at variables such as infant mortality, maternal mortality,....it does capture the very essence of what is clearly a comprehensive picture or what encompasses the parameters of a sturdy health system and as such lays out a clearly defined path on what would need to be focused on to solve health deficiencies on a local, national, and international level. Second, it sorts out the key data that plays an important role in sorting out factors that promote a pattern of what are key health care variables to focus on when doing studies on women's health.

(a) Infant Mortality

Infant mortality, its causes and its effects, has long been a source of concern for women's health in African countries (Devries, 1985). While other factors related to women's health have been dissected, most authors and researchers believe that infant mortality and the devastating statistics in parts of Africa lies at the heart of what constitutes a depravity in women's health and the health of their children. Infant mortality has been dissected from various angles and a myriad of legitimate causes have ben advanced for its very important status. Guyatt et al (2001) concluded that malaria and the lingering side effects has a negative impact on infant mortality. A more recent study by Heft-Neal et al (2018) found a robust relationship between the air quality in a region and infant mortality, finding a negative relationship, that is the higher the level of air

quality, the lower the infant mortality rates, which one could proclaim as an obvious and expected pattern. This result was also seen in a previous study by Kudamatsu et al (2012), where there was ample evidence as it relates to improved air quality and the positive impact it could have on decreased infant mortality. In a predictable fashion, Abrahams et al (2011) found that a better diet for mothers resulted in lower rates of infant mortality. Ester et al (2011) in a comprehensive study using data from WHO, World Bank, UNICEF and UNDP found important relationships with several factors. More specifically, the authors observed a direct and positive relationship with infant mortality rates and maternal mortality rate and an inverse relationship was observed with prenatal care coverage, births assisted by skilled health personnel, gross national income per capita, per capita government expenditure on health, social security expenditure, adult literacy rate, net primary school enrolment rate, population with access to safe drinking water (in urban and rural areas) and with population with access to basic sanitation in rural areas (Ester et al, 2011).

The top three countries with the highest infant mortality rates in Africa are as follow: Somalia (86.53/1,000), Central African Republic (82.97/1,000), and Equatorial Guinea (78.33/1,000). The top three countries with the lowest infant mortality rates in Africa are as follows: Tunisia (11.87/1,000), Libya (11.22/1,000), and Seychelles (10.6/1,000).

(b) Maternal Mortality

Early studies on maternal mortality rates in Africa have lamented the plight and long-term destruction of their high rates (Boerma, 1987). More recent authors have looked overall at the factors that determine the reasons for higher mortality rates (Alvarez et al, 2009; Bour et al, 2004). In the case of the former, Alvarez et al (2009) saw it as a human rights issue and a major global health challenge that needed rectifying through a consensus of two main factors - namely a strong health system and skilled delivery attendants. In the case of the latter, Bour et al (2004) found that births attended by skilled health personnel and life expectancy at birth strongly correlate with maternal mortality. Gross national product (GNP) per capita and health expenditure per capita also have strong association with maternal mortality and follows a line of argument on how intervening factors impact health care for women. A recent article presented an uplifting picture of maternal mortality rates in Africa, noting that the main reason for the decline in maternal deaths has been the success of the antiretroviral treatment programme for HIV-positive women, as well as a decline in deaths owing to obstetric hemorrhage (Moodley et al, 2018).

The top three countries with the highest maternal mortality rates in Africa are as follows: Sudan (1,150/100,000), South Sudan (1,150/100,000), and Chad (1,140/100,000). The top three countries with the lowest maternal mortality rates in Africa are as follows: Tunisia (42/100,000), Egypt (37/100,000), and Burundi (31/100,000).

C) Population and Age Structure

Africa has been largely confirmed as the birth of the first human beings, the homosapiens, which has been widely credited and sorted out as the first human beings on earth (Holfelder et al, 2021). It is the continent with the greatest disparity in genetic diversity among humans, resulting in iterating population structures (Holfeder et al. 2021). In Africa, 90% of the population is concentrated within a mere 21% of the land surface, underscoring the spatial disparity. Furthermore, the average per-person travel time to settlements housing over 50,000 inhabitants stands at approximately 3.5 hours, with Central and East Africa exhibiting the most extensive and time consuming journeys. The analyses highlight large inequities in access, the isolation of many rural populations and the challenges that exist between countries and regions in providing access to services (Linard et al, 2012). The key to advancing the rural portions of Africa, which often have very sharp contrasts to urban areas is access to transportation and advanced infrastructure. These two factors are of paramount importance. Mellor (2014) reinforces this argument by emphasizing that rural areas in Africa remain a source of concern, especially as it relates to a healthy development of the overall population. The advancement in rural areas would cover key factions, namely: advanced educational opportunities for both males and females, poverty eradication, especially for women and children, access to adequate health services for women and children, and clean water and adequate housing. These factors are key to moving the disadvantaged portions of Africa across various countries in Africa. Studies have shown that the African population does not include a lot of migrants and is said to be less than 4% (Gambino et al, 2014). The population of African countries has been aging in the last decade (Pillay et al, 2013) mirroring what has been taking place on the global platform. In another longitudinal study by Nkalu et al (2019) results show that environmental hazards in terms of carbon dioxide (CO2) emission from solid fuel consumption reduce life expectancy (LEX) by 1 month and 3 weeks with a statistically significant result. Also, income, as proxied by GDP, extends LEX by 1 year 6 months with statistically insignificant result, while population growth (POPG) equally extends LEX by 5 years 5 months due to increase in human resource/manpower which enhances agricultural productivity in Africa.

The top three countries with the highest population rates in Africa are as follows: Nigeria (206,139,589), Ethiopia (114,963), and Egypt (102,334,404). The top three countries with the lowest population rates in Africa are as follows: Gambia (241,668), São Tomé & Principe (219,159), and Seychelles (98,347).

(d) Life Expectancy

A study by Djoumessi (2022) analyzed the impact of economic implications of malnutrition and are examined through the vicious cycle of Poverty-Malnutrition-Low productivity- further

malnutrition. The results of the two-way fixed effect panel model demonstrate the impact of malnutrition on infant mortality, with mild or moderate malnutrition distinctly contributing to a reduction in the survival of infants. Conversely, the study reveals an association between severe malnutrition and an alarming increase in the mortality rates of children under the age of 5. Furthermore, this investigation delves into the complex relationship between malnutrition and life expectancy revealing a moderated effect on overall lifespan. Conducted across a sample of 36 African countries spanning from 2003 to 2018, this study provides insights into the implications of malnutrition on both infant mortality and life expectancy in the African context. The economic implications of malnutrition are examined through the vicious cycle of Poverty-Malnutrition-Low productivity- further malnutrition. It is hypothesized that malnutrition at infancy contributes to high mortality, and leads to lower labor productivity of adults through the reduction of life span, as more and more skilled labor leave sooner. The results of the two-way fixed effect panel demonstrate an association between mild or moderate malnutrition and a significant reduction in infant mortality. Whereas severe malnutrition leads to an increase in the death of children under 5 years. The results underscore a discernible impact of malnutrition on life expectancy. Also, the GDP growth significantly reduces the infant mortality rate but any increase in income per capita is not followed by the reduction of children's death. What is seen is that life expectancy has long been found to be positively related to health which is in turn positively related to income and gross domestic product in African countries (McCarthy et al, 2001).

The top three countries with the highest life expectancy rates in Africa are as follows: Burundi (78.38) Algeria (78.03), and Libya (77.18). The top three countries with the lowest life expectancy rates in Africa are as follows: Mozambique (57.1), Somalia (55.72), and Central Africa Republic (55.52).

(e) Fertility and Contraceptive Rates

Overall, Fertility rates in specific areas in Africa have been on the decline. Specifically, The total **fertility rate** (TFR) in the Middle East and North **Africa** has experienced a declining trend in recent years (Pourrezza et al, 2021). Teenage fertility rates in South Africa and Sub-Saharan Africa has also seen a decline (Moultrie et al, 2007). A number of factors have been said to contribute to low fertility rates including the usual suspects of improvements in sex education, increased educational levels among the female population, increased birth control usage, increased HIV rates which saw lower fertility rates among HIV infected women (Lewis et al, 2004; Ijaiya et al, 2009; Chola et al, 2015). A 2020 Family Planning Initiative Launched for 2012 at a London Summit aimed the double the number of contraceptives used across Sub-Saharan African. The results show a range of annual rates of change in modern contraceptive prevalence rates among women of reproductive age (15-49 years), with variations spanning from as low as 0.77 percentage points (95% CI -0·73 to 2·28) in Lagos, Nigeria, to 3·64 percentage

points (2·81 to 4·47) in Ghana, according to the quadratic model. Burkina Faso, Kinshasa (DR Congo), Kaduna (Nigeria), and Uganda emerged as noteworthy points, showcasing high rates of change (>1·4 percentage points) in modern contraceptive prevalence among women of reproductive age. Although contraceptive use was rising rapidly in Ethiopia during the pre-Summit period, our results suggested that the yearly growth rate stalled recently (0·92 percentage points, 95% CI -0·23 to 2·07) according to the linear model. The comprehensive meta-analysis revealed a substantial weighted average annual rate of change in modern contraceptive prevalence rates across all nine settings, standing at 1.92 percentage points (95% CI 1·14 to 2·70). Among married or cohabiting women, the annual rates of change were higher in most settings, and the overall weighted average was 2·25 percentage points (95% CI 1·37-3·13) (Ahmed et al, 2019).

The top three countries with the highest fertility rates in Africa are as follows: Niger (6.82), Angola (5.83), vand DR Congo (5.63). The top three countries with the lowest maternal fertility rates in Africa are as follows: Seychelles(1.82), Burundi (1.74), Mauritius (1.35). The top three countries with the highest contraceptive rates in Africa are as follows: Morocco (70.8%), Botswana (67.4%), and Zimbabwe (66.8%). The top three countries with the lowest contraceptive rates in Africa are as follows: Eritrea (8.4%), Chad (8.10%), Somalia (6.9%).

(f) Physician Density and HIV Rates

One key factor that contributes greatly to improvements in health is physician density, that is the number of physicians that are available to treat a certain number of people in the population. Having a shortage of physicians to provide proper healthcare for the population without being overwhelmed is key to advancing the healthcare system and the health of the population. Sub-Saharan has long faced and continue to face a significant shortage in healthcare workers (Conradie et al, 2018; Sawatsky et al, 2014). A shortage that persists in spite of strategies to combat this malady. This malady gets exacerbated when a crisis occurs, such as the ebola outbreak in recent years (McPake et al, 2019).

The HIV rates for African countries remains high and is a source of concern (Faria et al, 2019). These high rates are especially a source among women, children and young women (Karim et al, 2019; Ranjee et al, 2013). These high HIV rates are a source of concern, especially as the medical field pushes to reduce the rates of transmission from mothers to newborns (Goga et al, 2018). Changing the opinions of the high HIV rates in Africa is an abdurate process that will require solid and concrete plans to rectify and reverse the daunting HIV rates across African countries. High HIV rates have also shown to be positively correlated to other dangerous diseases (Mukadi et al, 2001. Undiagnosed cases of HIV rates in African countries also remain an issue (Johnson et al, 2015). The authors made a significant discovery, presenting a remarkable decline in the fraction of HIV-positive adults who remained undiagnosed, plummeting from over

80% in the early 2000s to a strikingly low 23.7% [95% confidence interval (95% CI) 23.1–24.3] in 2012. The proportion of undiagnosed cases in 2012 exhibited a substantial gender disparity, with men accounting for a considerably higher rate of 31.9% (95% CI 29.7–34.3) compared to women, whose undiagnosed proportion stood at 19.0% (95% CI 17.9–19.9). Projected probabilities of experiencing disease progression (CD4+ cell count <350 cells/µl) without diagnosis are more than 50% for most HIV-positive adults over the age of 40. The fraction of HIV-positive adults who are undiagnosed is projected to decline to 8.9% by 2020 if current targets (10 million tests per annum) are met (Johnson et al, 2015).

The top three countries with the highest physician density rates in Africa are as follows: Mauritius (2.6/1,000), Seychelles (2.12), and Libya (2.09). The top three countries with the physician density rates in Africa are as follows: Somalia (.02/1,000), Rwanda (.013/1,000), and Tanzania (.01/1,000). The top three countries with the highest HIV rates in Africa are as follows: South Africa (7.8 million), Mozambique (2.1 million), and Tanzania (1.7 million). The top three countries with the lowest HIV rates in Africa are as follows: Djibouti (6,800), Tunisia (4,500), and Cabo Verde (2,400).

(g) Obesity and Underweight Children

A recent study in Africa explained that obesity was increasing on that continent (Yako et al, 2015) though the authors maintained that the true cause remains elusive. A previous study sought to explain the causes and emphasized that the high obesity rates in Africa were caused by diabetic rates and hypertension rates (Kengne et al. 2013). A look at other sorted data shows a clear gradient in the prevalence of underweight children in West Africa. Along the coast of West Africa, an intriguing pattern emerges with an intermediate prevalence of underweight children, excluding wartorn Sierra Leone. However, as one ventures further north, an alarming escalation in the prevalence of underweight children unfolds swiftly and unmistakably, with the highest prevalence in the Sahel. In other regions, nutritional conditions clearly cross national borders. In the Great Lakes area, prevalence at several locations was above 30%, and the population density of under 5-year-olds was high. This implies that there are large numbers of undernourished children on both sides of the borders between Burundi, the Democratic Republic of the Cong, Rwanda, Uganda and the Republic of Tanzania. The analysis further reveals compelling regional patterns characterized by either low or medium levels of underweight children, providing insights into the geographic distribution and prevalence of this issue. Prevalence below 20% as observed in South Africa continued into neighboring countries such as Botswana, Namibia and Zimbabwe, and also into the southern part of Mozambique. In coastal central West Africa, a spectrum of low and medium levels of underweight children emerges, coming from southeastern regions of Nigeria to the captivating lands of Gabon and neighboring territories of the Republic of the Congo. (Nube, 2005). See also Figure 1. Another very recent study reaffirmed that

underweight children in Africa have also been and continues to be a source of concern (Cypriana et al, 2022).

The top three countries with the highest obesity rates in Africa are as follow: Libya (32.%), Egypt (32%), and South Africa (28.30%). The top three countries with the lowest obesity rates in Africa are as follows: Eritrea (5%), Ethiopia (4.5%), and Seychelles (.14%).

The top three countries with the highest underweight children rates in Africa are as follows: Niger (31.3%), Djibouti (29.9%), and Chad (29.2%). The top three countries with the lowest underweight children rates in Africa are as follows: Algeria (2.7%), Morocco (2.6%), and Tunisia (1.6%).

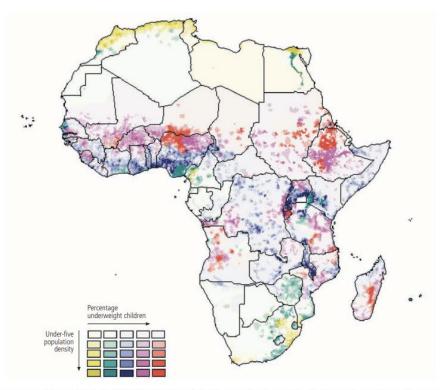


Fig. 1. Geographical representation of underweight in children (0-3 years) in Africa

Underweight prevalence (weight-for-age below median -2x5) in 5 percentage classes (0–10%, 11–20%, 21–30%, 31–40%, > 40 %). Under-five population density in five classes, 0–1, 2–5, 6–10, 11–20, >20 persons/sq km. Sources: Deichmann, 1994 (27); DHS/MICS-UNICEF/NHO (27, 22, 23); FAQ, 2003 (26); SALB, 2004 (25).

Research Methodology

The current study looked at women's health on the African continent. It represents a first step in gaining knowledge on what is currently available in that subject area in terms of the current literature and statistics. To that end, a thorough literature review was done and the most relevant and timely articles were summarized to provide a meaningful synopsis of where the research stands in this area today, some key findings and what could next be done in terms of a follow-up research agenda or analysis. As such, this paper used secondary data analysis to review the relevant literature and statistics that is currently available on women's health on the African continent. The paper also looked at key statistics for women from the World Factbook, performing a comparative analysis across countries. The preceding serves as the best way to answer what research has been done, what are the key findings and what follow-up research could be done as next steps. Thus the research question of what information and what key statistics are saying currently exists for the countries and what additional research could be done, is clearly answered through the use of this methodology.

Statistical Data on Women's Health

Northern Africa

The six countries in Northern Africa are: Morocco, Algeria, Tunisia, Egypt, Sudan, and Libya.

Country	Population		Median Age	Mother's Median Age
		0-14 years: 29.58% (male 6,509,490/female 6,201,450)		
		15-24 years: 13.93% (male 3,063,972/female 2,922,368)	total: 28.9 years	
		25-54 years: 42.91% (male 9,345,997/female 9,091,558)	male: 28.6 years	
		55-64 years: 7.41% (male 1,599,369/female 1,585,233)	female: 29.3 years (2020 est.)	
Algeria	43,851,044	65 years and over: 6.17% (2020 est.) (male 1,252,084/female 1,401,357)		x
		0-14 years: 33.62% (male 18,112.550 female 16,889,155) 15-24 years: 18.01% (male 9,684,437/female 9,071,165), 25-54 years: 37.85% (male 19,376,847), 55-64 years: 6.08% (male 3,160,438 female 3,172,544), 65 years and over: 4.44% (2020 est.) (male 2,213,539 female 2,411,457)		
Egypt	102,334,404		total: 24.1 years, male: 23.8 years, female: 24.5 years (2020 est.)	22.6
		0-14 years: 33.65% (male 1,184,755/female 1,134,084)		
		15-24 years: 15.21% (male 534,245 female 513,728)		
		25-54 years: 41.57% (male 1,491,461/female 1,373,086)	total: 25.8 years	
		55-64 years: 5.52% (male 186,913/female 193,560)	male: 25.9 years	
Libya	6,871,292	65 years and over: 4.04% (2020 est.) (male 129,177/female 149,526)	female: 25.7 years (2020 est.)	x
		0-14 years: 27.04% (male 4,905,626/female 4,709,333)		
		15-24 years: 16.55% (male 2,953,523/female 2,930,708)		
		25-54 years: 40.64% (male 7,126,781/female 7,325,709)	total: 29.1 years	
		55-64 years: 8.67% (male 1,533,771/female 1,548,315)	male: 28.7 years	
Могоссо		65 years and over: 7.11% (2020 est.) (male 1,225,307/female 1,302,581)	female: 29.6 years (2020 est.)	x
		0-14 years: 41.58% (male 2,238,534/female 2,152,685)		
		15-24 years: 21.28% (male 1,153,108/female 1,094,568)		
		25-54 years: 30.67% (male 1,662,409/female 1,577,062)	total: 18.6 years	
		55-64 years: 3.93% (male 228,875 female 186,571)	male: 18.9 years	
Sudan		65 years and over: 2.53% (2020 est.) (male 153,502/female 113,930)	female: 18.3 years (2020 est.)	x
		0-14 years: 25.28% (male 1,529,834 female 1,433,357)		
		15-24 years: 12.9% (male 766,331/female 745,888)		
		25-54 years: 42.85% (male 2,445,751/female 2,576,335)	total: 32.7 years	
		55-64 years: 10.12% (male 587,481/female 598,140)	male: 32 years	
Tunisia	11,818,619	65 years and over: 8.86% (2020 est.) (male 491,602/female 546,458)	female: 33.3 years (2020 est.)	x

Country	Maternal Mortality		Fertility Rate	Contraceptive Rate	Current Health	Physician Density	People Living with HIV	Obesity	Underweight Children
		total population: 78.03 years							
		male: 76.57 years							
		·							
Algeria	112/100,000	female: 79.57 years (2022 est.)	2.51	57.10%	6.20%	1.72/1000	18,000	27.40%	2.70%
		total population: 74.45 years, male: 73.26 years, female: 75.72 years (2022 est.)							
Egypt	37/100,000		2.88	58.5	4.70%	.45/1000	24,000	32%	7%
		total population: 77.18 years							
		1 7101							
		male: 74.94 years							
Libya	72/100,000	female: 79.53 years (2022 est.)	3.09	27.7	NA	2.09/1000	9,500	32.5	11.7
		total population: 73.68 years							
		male: 71.98 years							
Morocco	70/100,000	female: 75.46 years (2022 est.)	2.29	70.80%	5.30%	.73/1000	22,000	26.10%	2.60%
		total population: 59.16 years							
		male: 57.43 years							
		male: 37.43 years							
Sudan	1,150/100,000	female: 60.97 years (2022 est.)	5.32	NA	6%	x	180,000	6.60%	NA
		total population: 76.82 years							
		1. 2614							
		male: 75.14 years							
		female: 78.6 years (2022 est.)			1				
Tunisia	43/100.000		,	50.7	,	1.3/1000	4.500	26.9	1.6
rumsiä	45/100,000		14	30.7	1	1.3/1000	4,500	20.9	1.0

Western Africa

The sixteen countries in Western Africa are: Nigeria, Ghana, Côte d'Ivoire, Niger, Burkina Faso, Mali, Sengenal, Guinea, Benin, Sierra Leone, Togo, Liberia, Mauritania, Gambia, Guinea-Bissau, and Cape Verde.

Country	Population		Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contraceptive Rate	Current Health	Physician Density	People Living with HIV	Obesity	Underweight Children
		0-14 years: 45.56% (male 2,955,396 female 2,906,079)											
		15-24 years: 20.36% (male 1,300,453 female 1,318,880)											
		25-54 years: 28.54% (male 1,735,229 female 1,935,839)	total: 17 years			total population: 62.21 years							
		55-64 years: 3.15% (male 193,548/female 211,427)	male: 16.4 years			male: 60.39 years							
Benin		65 years and over: 2.39% (2020 est.) (male 140,513 female 167,270)	female: 17.6 years (2020 est.)	20.5	397/100,000	female: 64.14 years (2022 est.)	5.43	15.5	2.4	.08 1000	75,000	9.6	16.8
		0-14 years: 43.58% (male 4,606,350/female 4,473,951)											
		15-24 years: 20.33% (male 2,121,012 female 2,114,213)											
		25-54 years: 29.36% (male 2,850,621 female 3,265,926)	total: 17.9 years			total population: 63.44 years							
		55-64 years: 3.57% (male 321,417/female 423,016)	male: 17 years			male: 61.63 years							
Burkina Faso	20,903,273	65 years and over: 3.16% (2020 est.) (male 284,838 female 374,057)	female: 18.7 years (2020 est.)	19.4	320/100,000	female: 65.31 years (2022 est.)	4.27	30.1	5.50%	0.09/1,000	97,000	5.60%	16.40%
		0-14 years: 38.53% (male 5,311,971/female 5,276,219)											
		15-24 years: 20.21% (male 2,774,374 female 2,779,012)	total: 20.3 years										
		25-54 years: 34.88% (male 4,866,957/female 4,719,286)	male: 20.3 years			total population: 62.26 years							
		55-64 years: 3.53% (male 494,000 female 476,060)	female: 20.3 years (2020 est.)			male: 60.07 years							
Côte d'Ivoire	26,378,274	65 years and over: 2.85% (2020 est.) (male 349,822 female 433,385)		19.6	617/100,000	female: 64.52 years (2022 est.)	3.53	23.3	3.30%	0.23/1,000	380,000	10.30%	12.80%
		0-14 years: 35.15% (male 391,993/female 388,816)											
		15-24 years: 20.12% (male 221,519 female 225,414)											
		25-54 years: 36.39% (male 396,261 female 412,122)	total: 21.8 years			total population: 67.6 years							
		55-64 years: 4.53% (male 48,032/female 52,538)	male: 21.5 years			male: 65.83 years							
Gambia	241,668	65 years and over: 3.81% (2021 est.) (male 38,805 female 45,801)	female: 22.2 years (2020 est.)	20.7	597/100,000	female: 69.41 years (2022 est.)	3.79	16.8	3.8	.1/1000	27,000	10.3	11.6
		0-14 years: 37.44% (male 5,524,932/female 5,460,943)											
		15-24 years: 18.64% (male 2,717,481 female 2,752,601)											
		25-54 years: 34.27% (male 4,875,985 female 5,177,959)	total: 21.4 years			total population: 69.37 years							
		55-64 years: 5.21% (male 743,757/Semale 784,517)	male: 21 years			male: 67.7 years							
Ghana	31,072,940	65 years and over: 4.44% (2020 est.) (male 598,387/female 703,686)	female: 21.9 years (2020 est.)	20.7	308/100,000	female: 71.09 years (2022 est.)	3.66	27.20%	3.40%	.141000	350,000	10.90%	12.06%

	Bernsteden	Age Structure		Income to 19	Mother's Median Age	Atamos I Street	Total Property of	Program Property	Commence State	Comment Strate	Whentstein Phonesis	People Living with H	er les or	Confession Children
Country	Population		601,221 female 2,519,918)	Median Age 2	Mother't Median Age	Maternal Mortale	Life Expectancy	Pertinty Kate 76	Contraceptive Kate	Current Health	Physician Dentity	People Living with H	IV Obesity	Caderneight Children
		15-24 years: 19.32% (male	1,215,654/Sexcele 1,204,366)											
			1,933,141 female 1,930,977)	total: 19.1 years			total population: 63.9 years							
		55-64 years: 4.73% (male	287,448 Semale 305,420)	male: 18.9 years			male: 62.04 years							
Guines	13,132,795	The second secon	2020 est.) (male 218,803 female 270,40	The second secon	19.9	576100,000	Semale: 65.82 years (2022 est	4.85	10.9	4	08:1000	110,000	7.7	16
			601,221/Semale 2,559,918)											
		15-24 years: 19.32% (male	1,215,654 female 1,204,366)											
		25-54 years: 30.85% (male	1,933,141 female 1,930,977)	total: 19.1 years			total population: 63.9 years							
		55-64 years: 4.73% (male	287,448 female 305,420)	male: 18.9 years			male: 62.04 years							
Guinea-Bissau	1,968,001	65 years and over 3.91%	2020 est.) (male 218,803 female 270,40	2) female: 19.4 years (2020 est.)	19.9	576 100,000	female: 65.82 years (2022 est	() 4.85	109	4	OS 1000	110,000	7.7	16
			1,111,479 Sexuale 1,097,871)											
		15-24 years: 20.35% (male												
		25-54 years: 30,01% (male												
		55-64 years: 3.46% (male		total: 18 years			total population: 65.45 years							
	2004004	65 years and over: 2.83% (2020 est.) (male 70,252 female 73,442)	noale: 17.7 years			male: 63.19 years	15725	155	200				
Liberia	5,057,681	0.14 mm; 12.600 (mm)	4,689,121 female 4,636,685)	female: 18.2 years (2020 est.)	19.1	661/100,000	female: 67.78 years (2022 est	13 4.79	24.9	8.5	04 1000	35,000	9.9	10
			4,009,121 0emaie 4,000,002) 769,772 female 1,945,582)											
		100		100000000000000000000000000000000000000										
			2,395,566 Semale 2,806,830)	total: 16 years			total population: 62.41 years							
		55-64 years: 3,68% (male		male: 15.3 years			male: 60.19 years		- CO.		1000000			
Mah	20,250,833	65 years and over: 3.02% 0-14 years: 37.56% (male	2020 est.) (male 293,560 female 297,40 755.788 female 748.671)	1) female: 16.7 years (2020 est.) 1	19.2	562 100,000	female: 64.7 years (2022 est.)	5.54	17.2	3.90%	13/1000	110,000	8.6	
		15-24 years 19.71% (male												
		25-54 years: 33.91% (male		total: 21 years			total population: 65.22 years							
		25-64 years: 4.9% (male 8		male: 20.1 years			male: 62.77 years							
Marriania	4.649.658		8,888 female 107,201) 2020 est.) (male 66,407 female 90,707)			766 100 000	female: 67.75 years (2022 est	1.0			19 1000	8 100	12.7	
Common la	1+,049,020	for years and over 3.92%	2020 etc.) (mass oco.: pemass vo./o/)	pense: 22 years (2020 est.) 1	11.0	1:00 100,000	Jaman 6/1/2 years (2022 en	13333	11.0	2.3	181000	8,300	Mollan	10
Country P	0-1	4 years: 50.58% (male 5,805.	102 female 5,713,815)										Ascara .	AP.
	is	24 years: 19.99% (male 2,246	6,670 Semale 2,306,285)											
	25	54 years: 23.57% (male 2,582	1,123 Semale 2,784,464)										total: 141	l years
	55	64 years: 3.17% (male 357,8)	12 female 364,774)										male: 14.	Syears
Niger 3	14,206,644 65	years and over: 2.68% (2020)	est.) (male 293,430 female 317,866)										feccale: 1	5.1 years (2020 est.)
	0-1	14 years: 41.7% (male 45,571,	738 female 43,674,769),15-24 years: 20.2	% (male 22,022,660 female 21,358,	,753),25-54 years: 30.65	% (male 32,808,913/5e	male 32,686,474),55-64 years: 4.	13% (male 4,327,847	Semale 4,514,264),65	years and over 3.3	% (2020 est.) (male :	1,329,083 female 3,733,8	01)	
Nipera 2	06,139,599												Total: 18	6, male 18.4, female 18.
		4 years: 40,38% (male 3,194)	454 female 3,160,111)										-	
	15	-24 years: 20.35% (male 1,596	5,896 Semale 1,606,084)											
	25	54 years: 31.95% (male 2,32)	,424 female 2,700,698)										total: 19	years
	55	64 years: 4.21% (male 283,4)	10 female 378,932)											5 years
Senegal 1	16,743,927 65	years and over: 3.1% (2020 a	n.) (male 212,332 female 275,957)										mair 13	
		4 years: 41.38% (male 1,369)											1000000	0.3 years (2000 est.)
	13												1000000	0.3 years (2000 est.)
		-24 years: 18.83% (male 610,)	96 female 636,880)										female: 2	
		54 years: 32.21% (male 1,02)	96 female 636,880) ,741 female 1,112,946)										female: 2	l yess
	55	54 years: 32.21% (male 1,02) 64 years: 3.89% (male 121,7)	96 9enale 636,880) 1,741 9enale 1,112,946) 13 female 135,664)										female: 2 total: 19 male: 18	lyess Syess
Sierra Leone 7.	55	54 years: 32.21% (male 1,02) 64 years: 3.89% (male 121,7)	96 9enale 636,880) 1,741 9enale 1,112,946) 13 female 135,664)										female: 2 total: 19 male: 18	l yess
Sierra Leone 7	55 7,976,983 65 0-1	54 years: 32.21% (male 1,02) 64 years: 3.89% (male 121,7)	96 Sensale 636,880) 1,741 Sensale 1,112,946) 13 Sensale 135,664) 13 Omade 100,712 Sensale 144,982) 567 Sensale 1,703,236)										female: 2 total: 19: male: 18 female: 1	lyess Jyssa 9.7 years (2000 est.)
Sierra Leone 7	.976,983 65 0-1	54 years: 32.21% (male 1,02) 64 years: 3.89% (male 221,7) years and over: 3.7% (2020 et 14 years: 39.73% (male 1,716) 24 years: 39.03% (male 817,6	196 Senale (10,180) 1,741 Senale 1,112,946) 13 Sincule 115,664) 13 Onale 100,712 Senale 144,382) 661 Sonale 1,703,236) 93 Senale 820,971)										female: 2 total: 19 male: 18	l years System 9.7 years (2000 est.)
Sierra Leone 7	53 7,976,983 65 0-1 15 25	54 years: 32.21% (male 1,026 64 years: 3.89% (male 121,77 years and over: 3.7% (2000 e 14 years: 39.25% (male 1,716) 34 years: 19.03% (male 817,6 54 years: 33.26% (male 1,42)	196 Sernale (10,180) 1,741 Sernale 1,112,946) 13 Sernale 113,644) 2) Onale 100,712 Sernale 144,382) 607 Sernale 3,703,230) 83 Sernale \$20,971) ,554 Sernale 1,439,380)										female: 2 total: 19. male: 18. female: 1 total: 20: male: 19.	l years 5 years 9.7 years (2000 est.) rears
	53 7,976,983 65 0-1 15 25 53	54 years: \$2,21% (male 1,026 64 years: 3,89% (male 121,73 years and over: 3,7% (2000 e 14 years: \$9,73% (male 1,716) 0.24 years: \$9,23% (male 1,42) 54 years: \$3,26% (male 1,42) 64 years: 4,42% (male 179,73	196 female (1)6,800) 1,741.5emile 1,112,940) 13 female 133,664) 13 female 120,712.female 144,932) 60 female 130,9210 93 female 230,971) 1,554.9emile 1,419,380) 99 female 200,392)										female: 2 total: 19. male: 18. female: 1 total: 20: male: 19.	l years System 9.7 years (2000 est.)
Togo 8.	53 7,976,983 63 0.1 15 25 53 8,278,724 65	54 years 32.21% (male 1,000 64 years 3.89% (male 221,7) years and orner 3.7% (2020 or 14 years 39.29% (male 1,716, 24 years 39.29% (male 1,716, 54 years 39.29% (male 19.7), 54 years 39.29% (male 19.7), years and over 3.57% (2020,	106 female (30,180) 7,41 female (1,11,2849) 3. Senale (1,15,644) 3. Senale (1,15,644) 10. Table (1,00,173 female (143,827) 667 female (1,00,289) 89 female (1,00,289) 89 female (1,14,189,180) 89 female (1,14,189,180) 89 female (1,14,189,180) 80 female (1,14,189,180) 80 female (1,14,189,180)	Ynacianev	Feynt	ny Rota % Co	ntracentive Rar- C	nyvent Health	Physician D	oncity Penn	le I iving with	a HIV Oberite	female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	1 years 5 years 9.7 years (2000 est.) 7 years 0.5 years (2000 est.)
	53 7,976,983 63 0.1 15 25 53 8,278,724 65	54 years 32.21% (male 1,000 64 years 3.89% (male 221,7) years and orner 3.7% (2020 or 14 years 39.29% (male 1,716, 24 years 39.29% (male 1,716, 54 years 39.29% (male 19.7), 54 years 39.29% (male 19.7), years and over 3.57% (2020,	106 Senale (10,140) 741 Senale (11,12,40) 741 Senale (14,132) 741 Senale (14,132) 741 Senale (14,132) 742 Senale (14,132) 743 Senale (14,132) 743 Senale (14,132) 744 Senale (14,132) 745 Senale (14,1		Fertili	ty Rate % Co	ntraceptive Rate Ct	urrent Health	Physician Do	ensity Peop	le Living with	a HIV Obesity	female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	Tyens 5 years 9.7 years (2000 est.) years 7 years 0.5 years (2000 est.)
Togo 8.	53 7,976,983 63 0.1 15 25 53 8,278,724 65	54 years 32.21% (male 1,000 64 years 3.89% (male 221,7) years and orner 3.7% (2020 or 14 years 39.29% (male 1,716, 24 years 39.29% (male 1,716, 54 years 39.29% (male 19.7), 54 years 39.29% (male 19.7), years and over 3.57% (2020,	106 Senale (10,640) 741 Senale (11,12,40) 741 Senale (14,132) 741 Senale (14,132) 742 Senale (14,132) 743 Senale (14,132) 743 Senale (14,132) 744 Senale (14,132) 745 Senale (14,1	ixpectancy opulation: 60.09 years	Fertili	ty Rate % Co	ntraceptive Rate C	urrent Health	Physician D	ensity Peop	le Living witl	a HIV Obesity	female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	Tyens 5 years 9.7 years (2000 est.) years 7 years 0.5 years (2000 est.)
Togo 8.	53 7,976,983 63 0.1 15 25 53 8,278,724 65	54 years 32.21% (male 1,000 64 years 3.89% (male 221,7) years and orner 3.7% (2020 or 14 years 39.29% (male 1,716, 24 years 39.29% (male 1,716, 54 years 39.29% (male 19.7), 54 years 39.29% (male 19.7), years and over 3.57% (2020,	946 female 0.94.180) 1/41 femile 1.11.2840 1		Fertili	ty Rate % Co	utraceptive Rate Ct	urrent Health	Physician D	ensity Peop	le Living with	h HIV Obesity	female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	1 years 5 years 9.7 years (2000 est.) 7 years 0.5 years (2000 est.)
Togo 8.	55 7,976,983 65 0-1 15 25 25 35 8,278,724 65 Moth	54 years 32 21% (mide 1,0% de years 3.89% (mide 1,0% de years 3.89% (mide 221,7% years and over 3.7% (2005) de years 19,9 years 19,9 years 19,0 years and over 3.5 years 19,0 years	946 female 0.94.180) 7.41 femile 1.11.2840 9 femile 1.11.2840 9 femile 1.11.2840 4.1 (male 100.112 female 144.382) 947 femile 1.70.2340 98 femile 100.712 female 144.382) 95 femile 100.712 female 144.382) 95 femile 100.712 female 144.382) 95 femile 100.7420 1.554 femile 1.403.4800 95 female 100.7420 1.544 femile 100.7420 1.544 fe	opulation: 60.09 years 58.55 years									female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	t years 5 years 9.7 years (2000 est.) years 7 years 0.3 years (2000 est.) weight Children
Togo 8. Country Niger	55 7.976,983 65 0.0 15 25 35 35 8278,724 65 Moth	54 years 12:21% (mile 1,000 44 years 12:21% (mile 1,000 44 years 12:1% (mile 12:1%) years and over 2.7% (2000 43 years 12:1%) (2000 43 years 12:1%) 45 years 12:1% (mile 1:1%) 54 years 12:2% (mile 1:1%) 54 years 12:2% (mile 1:1%) years and over 2:3% (mile 1:1%)	186 female 616,180) 7.14 female 1112860 10 miles 1112860 10 miles 1126,084 10 miles	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est.	.) 6.82	11	5.7	70%	0.04/1,000	31,00	0	5.50%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1 years 2 years 9.7 years (2000 est.) years 7 years 0.3 years (2000 est.) weight Children 31.300
Togo 8.	55 7,976,983 65 0-1 15 25 25 35 8,278,724 65 Moth	54 years 12:21% (mile 1,000 44 years 12:21% (mile 1,000 44 years 12:1% (mile 12:1%) years and over 2.7% (2000 43 years 12:1%) (2000 43 years 12:1%) 45 years 12:1% (mile 1:1%) 54 years 12:2% (mile 1:1%) 54 years 12:2% (mile 1:1%) years and over 2:3% (mile 1:1%)	186 female 16.4160 (1.12.446) (1.	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est. otal, male: 59.51, female	.) 6.82		5.7	70%		31,00			female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	t years 5 years 9.7 years (2000 est.) years 7 years 0.3 years (2000 est.) weight Children
Togo 8. Country Niger	55 7.976,983 65 0.0 15 25 35 35 8278,724 65 Moth	54 years 12:21% (mile 1,000 44 years 12:21% (mile 1,000 44 years 12:1% (mile 12:1%) years and over 2.7% (2000 43 years 12:1%) (2000 43 years 12:1%) 45 years 12:1% (mile 1:1%) 54 years 12:2% (mile 1:1%) 54 years 12:2% (mile 1:1%) years and over 2:3% (mile 1:1%)	186 female 16.4160 (1.12.446) (1.	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est.	.) 6.82	11	5.7	70%	0.04/1,000	31,00	0	5.50%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1 years 2 years 2 years (2000 est.) P. Tyears (2000 est.) Pyears 7 years 0.3 years (2000 est.) weight Children 31.309
Togo 8. Country Niger	55 7.976,983 65 0.0 15 25 35 35 8278,724 65 Moth	54 years 12:21% (mile 1,000 44 years 12:21% (mile 1,000 44 years 12:1% (mile 12:1%) years and over 2.7% (2000 43 years 12:1%) (2000 43 years 12:1%) 45 years 12:1% (mile 1:1%) 54 years 12:2% (mile 1:1%) 54 years 12:2% (mile 1:1%) years and over 2:3% (mile 1:1%)	Missaich (MISS) Missaich (MISS) Missaich (MISSAIC) Missaich (MIS	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est. otal, male: 59.51, female	.) 6.82	11	5.7	70%	0.04/1,000	31,00	0	5.50%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1 years 2 years 2 years (2000 est.) P. Tyears (2000 est.) Pyears 7 years 0.3 years (2000 est.) weight Children 31.309
Togo 8. Country Niger Niger	55 55 65 65 65 65 65 65 65 65 65 65 65 6	54 years 32.21% (mile 1,000 64 years 32.21% (mile 1,000 64 years 32.21% (mile 122.7) 92 years 32 years 32.21% (mile 122.7) 93 years 32.27% (mile 1,726 64 years 32.27% (mile 1,726 65 years 32.27% (mile 1,726 66 years 32.27% (mile 129.7) years and over 3.57% (2020 67 years 32.27% (mile 1,726 68 years 32.27% (mile 1,727) years and over 3.57% (2020 67 years 32.27% (mile 1,727) 93 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 95 years 32.27% (Website Webs	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est otal, male: 59.51, femal- opulation: 69.96 years 68.23 years	.) 6.82 e 63.27 4.62	11 16.	5.1	70%	0.04/1,000	31,00 1.7 m	0 illion	5.50% 8.90%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1,7903 2,7903 5,71903 (200 est.) 7,7903 (200 est.) 7,7903 7,7903 7,7903 7,7903 1,7903
Togo 8. Country Niger	55 7.976,983 65 0.0 15 25 35 35 8278,724 65 Moth	54 years 32.21% (mile 1,000 64 years 32.21% (mile 1,000 64 years 32.21% (mile 122.7) 92 years 32 years 32.21% (mile 122.7) 93 years 32.27% (mile 1,726 64 years 32.27% (mile 1,726 65 years 32.27% (mile 1,726 66 years 32.27% (mile 129.7) years and over 3.57% (2020 67 years 32.27% (mile 1,726 68 years 32.27% (mile 1,727) years and over 3.57% (2020 67 years 32.27% (mile 1,727) 93 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 95 years 32.27% (Miller	opulation: 60.09 years 58.55 years s: 61.68 years (2022 est 50.16 years (2022 est) opulation: 69.96 years 68.23 years s: 71.77 years (2022 est)	.) 6.82 e 63.27 4.62	11	5.1	70%	0.04/1,000	31,00	0 illion	5.50%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1,7900 2,7900 5,71900 (200 et.) 7,7900 (200 et.) 7,7900 (200 et.) 7,7900 (200 et.) 7,7900 (200 et.) 1,840%
Togo 8. Country Niger Niger	55 55 65 65 65 65 65 65 65 65 65 65 65 6	54 years 32.21% (mile 1,000 64 years 32.21% (mile 1,000 64 years 32.21% (mile 122.7) 92 years 32 years 32.21% (mile 122.7) 93 years 32.27% (mile 1,726 64 years 32.27% (mile 1,726 65 years 32.27% (mile 1,726 66 years 32.27% (mile 129.7) years and over 3.57% (2020 67 years 32.27% (mile 1,726 68 years 32.27% (mile 1,727) years and over 3.57% (2020 67 years 32.27% (mile 1,727) 93 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 95 years 32.27% (Miller	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est otal, male: 59.51, femal- opulation: 69.96 years 68.23 years	.) 6.82 e 63.27 4.62	11 16.	5.1	70%	0.04/1,000	31,00 1.7 m	0 illion	5.50% 8.90%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1,7903 2,7903 5,71903 (200 est.) 7,7903 (200 est.) 7,7903 7,7903 7,7903 7,7903 1,7903
Togo 8. Country Niger Niger	55 55 65 65 65 65 65 65 65 65 65 65 65 6	54 years 32.21% (mile 1,000 64 years 32.21% (mile 1,000 64 years 32.21% (mile 122.7) 92 years 32 years 32.21% (mile 122.7) 93 years 32.27% (mile 1,726 64 years 32.27% (mile 1,726 65 years 32.27% (mile 1,726 66 years 32.27% (mile 129.7) years and over 3.57% (2020 67 years 32.27% (mile 1,726 68 years 32.27% (mile 1,727) years and over 3.57% (2020 67 years 32.27% (mile 1,727) 93 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 94 years 32.27% (mile 1,727) 95 years 32.27% (Missaic ACM	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est otal, male: 59.51, female opulation: 69.96 years 68.23 years e: 71.77 years (2022 est opulation: 58.76 years	.) 6.82 e 63.27 4.62	11 16.	5.1	70%	0.04/1,000	31,00 1.7 m	0 illion	5.50% 8.90%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	1 years 2 year
Togo 8. Country Niger Niger Nigeria	55 676,988 65 67 676,976,988 65 67 67 67 67 67 67 67 67 67 67 67 67 67	6-years 12-21% under 100. 6-years 12-21% under 110. 6-years 12-21% under	Mile America (1988)	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est otal, male: 59.51, female opulation: 69.96 years 68.23 years e: 71.77 years (2022 est opulation: 58.76 years 57.16 years	6.82 e 63.27 4.62	11 16.	5.1 6 35 9 4.1	70%	0.04/1,000 .38/1000 .07/1000	31,00 1.7 m	0 illion	5.50% 8.90% 8.8	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	3130% 3140%
Togo 8. Country Niger Niger	55 676,988 65 67 676,976,988 65 67 67 67 67 67 67 67 67 67 67 67 67 67	6-years 12-21% under 100. 6-years 12-21% under 110. 6-years 12-21% under	Missain Column Miss	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est. 51.8 male: 59.51, femal opulation: 69.96 years 68.23 years et 17.77 years (2022 est. 57.17 years (2022 est. 57.16 years 57.16 years et 68.23 years (2022 est. 69.41	6.82 e 63.27 4.62	11 16.	5.1 6 35 9 4.1	70%	0.04/1,000	31,00 1.7 m	0 illion	5.50% 8.90%	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	31300 31300 at 3 300
Togo 8. Country Niger Niger Nigeria	55 676,988 65 67 676,976,988 65 67 67 67 67 67 67 67 67 67 67 67 67 67	6-years 12-21% under 100. 6-years 12-21% under 110. 6-years 12-21% under	Missain Column Miss	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est otal, male: 59.51, female opulation: 69.96 years 68.23 years e: 71.77 years (2022 est opulation: 58.76 years 57.16 years	6.82 e 63.27 4.62	11 16.	5.1 6 35 9 4.1	70%	0.04/1,000 .38/1000 .07/1000	31,00 1.7 m	0 illion	5.50% 8.90% 8.8	female: 2 total: 19. male: 18. female: 1 total: 20: male: 19. female: 2	31300 31300 at 3 300
Togo 8. Country Niger Niger Nigeria	55 676,988 65 67 676,976,988 65 67 67 67 67 67 67 67 67 67 67 67 67 67	6-years 12-21% under 100. 6-years 12-21% under 110. 6-years 12-21% under	Missain Chillips	opulation: 60.09 years 58.55 years color stal, male: 99.11, femal opulation: 69.96 years color stal, male: 99.11, femal opulation: 69.96 years 68.23 years color stal, femal opulation: 58.76 years 57.16 years color stall years years color stall years years color stall years ye	6.82 e 63.27 4.62	11 16.	5.1 6 35 9 4.1	70%	0.04/1,000 .38/1000 .07/1000	31,00 1.7 m	0 illion	5.50% 8.90% 8.8	female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	31300 31300 at 3 300
Togo 8. Country Niger Niger Nigeria	55 676,988 65 67 676,976,988 65 67 67 67 67 67 67 67 67 67 67 67 67 67	54-years 123/4/wale 100/54/wale 125/54/wale 125/54/wale 15/54/wale	Webmark 1,1256	opulation: 60.09 years 58.55 years e: 61.68 years (2022 est. 51.8 male: 59.51, femal opulation: 69.96 years 68.23 years et 17.77 years (2022 est. 57.17 years (2022 est. 57.16 years 57.16 years et 68.23 years (2022 est. 69.41) 6.82 63.27 4.62) 4.27	11 16.	5.1 6 35 9 4.1 2 8.3	70%	0.04/1,000 .38/1000 .07/1000	31,00 1.7 m	0 aillion 0	5.50% 8.90% 8.8	female: 2 total: 19 male: 18 female: 1 total: 20 male: 19 female: 2	1,7900 2,7900 5,71900 (200 et.) 7,7900 (200 et.) 7,7900 (200 et.) 7,7900 (200 et.) 7,7900 (200 et.) 1,840%

Central Africa

The nine countries in Central Africa are: Democratic Republic of the Congo, Angola, Cameroon, Chad, Central African Republic, Republic of the Congo, Gabon, Equatorial Guinea, and Sao Tome and Principe.

Country	Population	Age Structure	Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contraceptive Rate	Current Health	Physician Density	People Living with HIV	Obesity	Underweight Children
		0-14 years: 47.83% (male 7,758,636/female 7,797,869)											
		15-24 years: 18.64% (male 2,950,999/female 3,109,741)				total population: 62.11 years							
		25-54 years: 27.8% (male 4,301,618 female 4,740,463)	total: 15.9 years			male: 60.05 years							
		55-64 years: 3.43% (male 523,517/female 591,249)	male: 15.4 years			female: 64.24 years (2022 est.)							
Angola	32,866,272	65 years and over: 2.3% (2020 est.) (male 312,197 female 436,050) 0-14 years: 42.34% (male 5,927,640 female 5,820,226)	female: 16.4 years (2020 est.)	19.4	241/100,000		5.83	13.70%	2.50%	221000	340,000	8.20%	19%
		15-24 years: 20.04% (male 2,782,376@male 2,776,873)											
		25-54 years: 30.64% (male 4,191,151 female 4,309,483)	total: 18.5 years			total population: 63.27 years							
		55-64 years: 3.87% (male 520,771/female 552,801)	male: 18.2 years			male: 61.49 years							
Cameroon	26 545 863	65 years and over: 3.11% (2020 est.) (male 403.420 female 460.248)	female: 18.8 years (2020 est.)	20.1	529 100,000	female: 65.09 years (2022 est.)	4.55	19.3	3.60%	0.091.000	500 000	11.40%	11%
		0-14 years: 39.49% (male 1,188,682/female 1,176,958)				,,							-
		15-24 years: 19.89% (male 598,567/female 593,075)											
		25-54 years: 32.95% (male 988,077/female 986,019)	total: 20 years			total population: 55.52 years							
		55-64 years: 4.32% (male 123,895/female 134,829)	male: 19.7 years			male: 54.19 years							
Central African	4,829,767	65 years and over: 3.35% (2020 est.) (male 78,017 female 122,736)	female: 20.3 years (2020 est.)	x	829 100,000	female: 56.88 years (2022 est.)	4.04	17.8	7.8	.07/1000	88,000	7.5	20.5
		0-14 years: 47.43% (male 4,050,505/female 3,954,413)											
		15-24 years: 19.77% (male 1,676,495/female 1,660,417)	total: 16.1 years										
		25-54 years: 27.14% (male 2,208,181/female 2,371,490)	male: 15.6 years			total population: 59:15 years							
		55-64 years: 3.24% (male 239,634/female 306,477)	female: 16.5 years (2020 est.)			male: 57.32 years							
Chad	16,425,864	65 years and over: 2.43% (2020 est.) (male 176,658 Semale 233,087) 0.14 years: 46.38% (male 23.757.297 Semale 23.449,057)		18.1	1,140 100,000	female: 61.06 years (2022 est.)	5.46	8.1	4.4	.041000	110,000	6.1	29.2
		15-24 years: 19-42% (male 9,908,686 female 9,856,841)				total population: 61.83 years							
		25-54 years: 28.38% (male 14,459,453 female 14,422,912)	total: 16.7 years			male: 60.03 years							
		55-64 years: 3.36% (male 1,647,267/female 1,769,429)	male: 16.5 years			Semale: 63.69 years (2022 est.)							
	89,561,403	65 years and over: 2.47% (2020 est.) (male 1,085,539/female 1,423,782)			473/100,000			28.1	3.50%	.07/1000	510,000	6.70%	23.10%
Country	Pope	Ulation Age Structure 0-14 years: 41.57% (male 1.110.484/female 1.089.732)	Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contraceptive Rate	Current Health	Physician Density	People Living with HIV	Obesity	Underweight Children
		15-24 years: 17.14% (male 454,981/female 452,204)											
		25-54 years: 33.5% (male 886.743 female 886.312)											
		55-64 years: 4.59% (male 125.207/female 117.810)	total: 19.5 years			total population: 62.1 years							
		65 years and over: 3.2% (2020 est.) (male 75.921/female 93.676)				male: 60.65 years							
		8.087	female: 19.7 years (2020 est.)		378/100,000	female: 63.61 years (2022 est.)		30.1		.17/1000	110.000	9.6	12.3
Congo	3,31	0-14 years: 38.73% (male 164,417 female 159,400)	pennie: 19.7 years (2020 est.)	19.0	378100,000	semale: 03.01 years (2022 etc.)	4.30	30.1	4.1	.1-1000	110,000	9.0	123
		15-24 years: 19.94% (male \$4,820 female \$1,880)											
		25-54 years: 32.72% (male 137.632/female 135.973)	total: 20.3 years			total population: 63.7 years							
		55-64 years: 4.69% (male 17.252/female 22.006)	male: 19.9 years			male: 61.44 years							
Equatorial Guin	1.40	2.985 65 years and over 3.92% (2020 est.) (male 13.464 female 19.334)			301/100,000	female: 66.03 years (2022 est.)	426	12.6	3.1	41000	68.000	8	5.6
-q	1,40	0-14 years: 39.77% (male 42,690 female 41,277)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ī .		John Gold Co.							
		15-24 years: 21.59% (male 23,088 female 22,487)											
		25-54 years: 31.61% (male 32,900 female 33,834)	total: 19.3 years			total population: 67.06 years							
		55-64 years: 4.17% (male 4,095 female 4,700)	male: 18.9 years			male: 65.44 years							
Sao Tome & Pri	incipe 219,	159 65 years and over: 2.87% (2020 est.) (male 2,631/female 3,420)	female: 19.7 years (2020 est.)	19.4	130/100,000	female: 68.72 years (2022 est.)	3.56	49.7	5.5	.05/1000	<1000	12.4	5.4
		The second secon	,			, , , , , , , , , , , , , , , , , , , ,						-	

Eastern Africa

The eighteen countries in Eastern Africa are: Ethiopia, Tanzania, Kenya, Uganda, Mozambique, Madagascar, Malawi, Zambia, Somalia, Zimbabwe, South Sudan, Rwanda, Burundi, Eritrea, Mauritius, Djibouti, Comoros, and Seychelles.

Corner	Panularia	Ang Second	ture															
Country	- +purausa	0-14 years	: 22.41% (male 53,653/female :	(0,446)														
		15-24 year	re: 16.14% (male 37,394/female	37,559)														
		25-54 year	rs: 47.21% (male 103,991/femal	ie 115,291)														
		55-64 year	rs: 8.34% (male 19,159/female)	19,585)														
Burundi	11,890,784	65 years as	nd over: 5.9% (2020 est.) (male	13,333 female 14,067)														
			: 36.68% (male 154,853/female															
			rs: 20.75% (male 85,208/female															
			rs: 33.99% (male 136,484/femal															
			rs: 4.49% (male 17,237/female)															
Comoros	869,601	65 years at 0-14 years	nd over: 4.08% (2020 est.) (mal c 29.97% (male 138,701/female	e 15,437/female 19,079) 137,588)														_
			rs: 20.32% (male 88,399/female															
			rs: 40.73% (male 156.016 femal															
			rs: 5.01% (male 19,868 female)															
Djihouti	988,000		nd over: 3.97% (2020 est.) (mal															
		0-14 years	: 38.23% (male 1,169,456/fema	de 1,155,460)														
			rs: 20.56% (male 622,172/femal															
			rs: 33.42% (male 997,693/femal															
			rs: 3.8% (male 105,092/female)															
Eritrea	3,546,421	65 years at 0.14 years	nd over: 4% (2020 est.) (male 9 : 39.81% (male 21,657,152 fem	9,231 female 143,949)	rs- 10 47% (male 10 506 14)	(Sounds 10 5/2 120) 25 (Ed transer 27 07% (se	ala 17 220 540 Aveala 17 067	200) 55.66 years	- 4 45% (w	vale 2 250 r	McGamala 2.4	22 210) 65 years and	oner 2 20%	2020 we 1 (r	oale 1.67	C/70/femals 1 (977 957)
		,							,,								.,	,)
	114,963,588														l			
Countr			Mother's Median Age	Maternal Mortali		120	Fertility Rat	e % Contraceptive Ra	te Current	Health	Physicia	n Density	People Living	with HIV	Obesity	Unde	rweight Ch	ildren
		31.1 year			total population: 78	.56 years												
	male:	30.5 year			male: 76.01 years													
Burundi	female	s: 31.8 ye	x	31/100,000	female: 80.86 years	(2022 est.)	1.74	NA	2.2		1.61/100	0	NA		14.1	NA		
	total: 2	20.9 year			total population: 67	.2 years												
	male:	20.2 year			male: 64.93 years													
		e: 21.5 ye	23	273/100,000	female: 69.54 years	(2022)	2.78	19.4	5.2		0.27		<200		7.8			16.9
Comoro		24.9 year	23	275/100,000	total population: 65		2.78	19.4	3.2		0.27		<200		7.8	-		10.9
					1	-,												
		23 years			male: 62.72 years													
Djibouti	female		x	248/100,000	female: 67.96 years		2.15	19	1.8		.22/1000	1	6,800		13.5			29.9
	total: 2	20.3 year			total population: 66	0.85 years												
	male:	19.7 year			male: 64.25 years													
Eritrea	female	e: 20.8 ve	21.3	480/100,000	female: 69.53 years	(2022 est.)	3.58	8.4	4.5		.06/1000		13,000		5	NA		
	total: 1	19.8 year																
Ethiopia	1		19.3	401/100,000	Total-68.25, male 6	6.12, female 70.44	3.99	37	3.20%		.08/1000	ı	620,000		4.50%		21.10%	
Country	Populatio	Age Stru	cture s: 38.71% (male 10,412,321/fems	de 10 210 200	Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contrace	ptive Rate	Current Heal	h Physician Density	People Livis	g with HIV	Obesity	Underweight (Children
			re: 20.45% (male 5.486.641/fem)															
		25-54 yea	rr: 33.75% (male 9,046,946/fem	de 9,021,207)														
			rs: 4.01% (male 1,053,202/femal		total: 20 years			total population: 69.69 years										
		65 years a	and over: 3.07% (2020 est.) (male	750,988 female 892,046)	male: 19.9 years			male: 67.98 years										
Kenya	53,771,296	6			female: 20.1 years (2020 est.)	20.3	142/100,000	female: 71.43 years (2022 est.)	3.29	59.70%		4.60%	.16/1000	1.4 million		7,10%		11.20%
	1		s: 38.86% (male 5,278,838 femal srs: 20.06% (male 2,717,399 fema															
			rs: 20.00% (male 2,717,399/fem) rs: 33.02% (male 4,443,147/fem)		total: 20.3 years			total population: 68.17 years										
			rs: 35.02% (male 4,445,147/fem) rs: 4.6% (male 611.364/female 6		male: 20.1 years			male: 66.5 years										
Madagascar	27,691,011		and over: 3.47% (2020 est.) (male			19.5	35/100,000	female: 69.57 years (2022 est.)	3.62	44,40%		3,70%	.18/100,000	42,000		5,30%		26,40%
		0-14 year	s: 45.87% (male 4,843,107/femal	e 4,878,983)														
			rs: 20.51% (male 2,151,417/femo		total: 16.8 years			total population: 72.44 years										
			rs: 27.96% (male 2,944,936 fem		male: 16.7 years			male: 69.33 years										
			rr: 2.98% (male 303,803/female		female: 16.9 years (2020 est.)	<u></u>		female: 75.59 years (2022 est.)										
Malawi	19,129,953	0-14 years a	and over: 2.68% (2020 est.) (male s: 19.44% (male 137,010 female	249,219 Semale 318,938) 131,113)		19.1	549/100,000		5.4	59.20%		1,4	.04/1000	990,000		3.8		9
		15-24 yea	rx: 14.06% (male 98,480 female	95,472)														
	1	25-54 yea	rs: 43.11% (male 297,527/female	297,158)	total: 36.3 years			total population: 74.86 years										
			re: 12.31% (male \$0,952/female		male: 35 years			male: 72.04 years										
Mauritius	1,271,768	65 years a	and over: 11.08% (2020 est.) (mai s: 45.57% (male 6,950,800 femal	le 63,230 Semale 89,638)	female: 37.6 years (2020 est.)	x	51/100,000	female: 77.88 years (2022 est.)	1.35	36.8		6.2	2.61000	14,000		10.8	NA	
	1		s: 45.57% (male 6,950,800 femal rrs: 19.91% (male 2,997,529 fem															
			rr: 28.28% (male 3,949,085/fem		total: 17 years			total population: 57.1 years										
			rr: 3.31% (male 485,454 female		male: 16.3 years			male: 55.76 years										
Mezambiqu	# 31,255,435		and over: 2.93% (2020 est.) (male			19.2	289/100,000	female: 58.49 years (2022 est.)	4.81	27.10%		7,80%	.08/1000	2.1 million		7.20%		15,60%

Country	Population	Age Structure	Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contraceptive Rate	Current Health	Physician Densits	People Living with HIV	Obesity:	Underweight Children
		0-14 years: 39.95% (male 2,564,893/female 2,513,993)		-									-
		15-24 years: 20.1% (male 1,280,948/female 1,273,853)											
		25-54 years: 33.06% (male 2,001,629 female 2,201,132)	total: 19.7 years			total population: 65.85 years							
		55-64 years: 4.24% (male 241,462 female 298,163)	male: 18.9 years			male: 63.89 years							
Rwanda			female: 20.4 years (2020 est.)	22.7	248/100,000	female: 67.86 years (2022 est.)	3.33	53.2	6.4	.013/1000	220,000	5.8	7.7
		0-14 years: 18.85% (male 9,297 female 8,798)											
		15-24 years: 12.39% (male 6,283 female 5,607)											
		25-54 years: 49.03% (male 25,209 female 21,851)	total: 36.8 years			total population: 76.1 years							
		55-64 years: 11.46% (male 5,545 female 5,455)	male: 36.3 years			male: 71.67 years							
Seychelles		65 years and over: 8.27% (2020 est.) (male 3,272 female 4,664) 0-14 years: 42.38% (male 2,488,604 female 2,493,527)	female: 37.4 years (2020 est.)	x	х	female: 80.66 years (2022 est.)	1.82	NA	5.2	2.12/1000	NA	0.14	3.6
		15-24 years: 19.81% (male 1,167,507/Semale 1,161,040)											
		25-54 years: 30.93% (male 1,881,094/female 1,755,166)											
		55-64 years: 4.61% (male 278,132/female 264,325)	total: 18.5 years			total population: 55.72 years							
		65 years and over: 2.27% (2020 est.) (male 106,187 female 161,242)	male: 18.7 years			male: 53.39 years							
Somalia	15.893.222	00 years and over 2.2.7.9 (2020 etc.) (male 100,10 member 101,242)	female: 18.3 years (2020 est.)	_	829/100,000	female: 58.12 years (2022 est.)	531	6.9	NA	.02/1000	8.700	8.3	23
-		0-14 years: 41.58% (male 2,238,534/female 2,152,685)	Manuel 10.5 years (2000 tot.)	*	*********	Donate Street State (2022 Cit.)	2.21		110		2,100	-	
		15-24 years: 21.28% (male 1,153,108/female 1,094,568)											
		25-54 years: 30.67% (male 1,662,409/female 1,577,062)	total: 18.6 years			total population: 59.16 years							
		55-64 years: 3.93% (male 228,875 female 186,571)	male: 18.9 years			male: 57.43 years							
South Sudan		65 years and over: 2.53% (2020 est.) (male 153,502 female 113,930)	female: 18.3 years (2020 est.)	x	1,150/100,000	female: 60.97 years (2022 est.)	5.32	NA	6	NA	180,000	6.6	NA
		0-14 years: 42.7% (male 12,632,772/female 12,369,115)											
		15-24 years: 20.39% (male 5,988,208/female 5,948,134)	total: 18.2 years			total population: 70.19 years							
		25-54 years: 30.31% (male 8,903,629/female 8,844,180)	male: 17.9 years			male: 68.42 years							
		55-64 years: 3.52% (male 954,251/female 1,107,717)	female: 18.4 years (2020 est.)			female: 72.02 years (2022 est.)							
Tanzania	59,734,218	65 years and over: 3.08% (2020 est.) (male 747,934 female 1,056,905)		19.8	524/100,000		4.39	38.4	3.90%	.01/1000	1.7 million	8.40%	14.60%
Country	Population	0-14 years: 48.21% (male 10.548.913.5emale 10.304.876)	Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contraceptive Rate	Current Health	Physician Density	People Living with HIV	Obesity	Underweight Children
		15-24 years: 20.25% (male 4,236,231/Semale 4,521,698)	total: 15.7 years										
		25-54 years: 26.24% (male 5.202.570 female 6.147,304)	male: 14.9 years			total population: 68.96 years							
		55-64 years: 2.91% (male 579.110/female 681.052)	female: 16.5 years (2020 est.)			male: 66.71 years							
Uganda	45 741 007	65 years and over: 2.38% (2020 est.) (male 442.159/female 589.053)	remaie. 10.5 years (2020 est.)	19.4	375/100,000	female: 71.27 years (2022 est.)	516	41.80%	1.80%	.17/100.000	1.4 million	5.30%	10.40%
Ugania	45,741,007	0-14 years: 45.74% (male 4,005,134/female 3,964,969)		17.4	373/200,000	remaie. /1.2/ years (2022 est.)	3.30	41.00%	2.0019	.1/1200,000	1.4 minon	2.39%	20.4079
		15-24 years: 20.03% (male 1,744,843/female 1,746,561)											
		25-54 years: 28.96% (male 2,539,697/female 2,506,724)	total: 16.9 years			total population: 66.26 years							
		25-54 years: 28.96% (male 2,539,697/female 2,506,724) 55-64 years: 3.01% (male 242,993/female 280,804)	total: 16.9 years male: 16.7 years			male: 64.52 years							
Zambia	18,383,955		male: 16.7 years	19.2	213/200,000		4.56	49.6	5.3	1.191000	24,000	8.1	11.8
Zambia	18,383,955	55-64 years: 3.01% (male 242,993/female 290,804) 65 years and over: 2.27% (2020 est.) (male 173,582/female 221,336)	male: 16.7 years	19.2	213/100,000	male: 64.52 years	4.56	49.6	5.3	1.19/1000	24,000	8.1	11.8
Zambia	18,383,955	55-64 years: 3.01% (male 242,993 female 280,804) 65 years and over: 2.27% (2000 est.) (male 173,582 female 221,316) 0.14 years: 38.32% (male 2,759,155 female 2,814,462)	male: 16.7 years	19.2	213/100,000	male: 64.52 years	4.56	49.6	5.3	1.191000	24,000	8.1	11.8
Zambia	18,383,955	55-64 years 3.01% (male 242,993 female 280,804) 65 years and over: 2.27% (2020 est.) (male 173,982 female 221,316) 0-14 years: 38.32% (male 2,799,155 female 2,814,462) 15-24 years: 20.16% (male 1,436,710 female 1,485,440)	male: 16.7 years female: 17 years (2020 est.)	19.2	213/300,000	male: 64.52 years female: 68.06 years (2022 est.)	4.56	49.6	5.3	1.191000	24,000	8.1	11.8

Southern Africa

The five countries in Southern Africa are: South Africa, Namibia, Botswana, Lesotho, and Swaziland.

Country	Population	Age Structure	Median Age	Mother's Median Age	Maternal Mortality	Life Expectancy	Fertility Rate %	Contraceptive Rate	Current Health	Physician Density	People Living with HIV	Obesity	Underweight Children
		0-14 years: 30.54% (male 357,065/female 350,550)											
		15-24 years: 18.31% (male 208,824/female 215,462)											1
		25-54 years: 39.67% (male 434,258/female 484,922)	total: 25.7 years			total population: 65.64 years							1
		55-64 years: 5.92% (male 59,399/female 77,886)	male: 24.5 years			male: 63.6 years							1
Betawana	2,351,627	65 years and over: 5.56% (2020 est.) (male 53,708 female 75,159)	female: 26.7 years (2020 est.)	x	144/100,000	female: 67.74 years (2022 est.)	2.39	67.4	6.1	.53/1000	370,000	18.9	NA
		0-14 years: 31.3% (male 309,991/female 306,321)											
		15-24 years: 19-26% (male 181,874/female 197,452)											1
		25-54 years: 38.86% (male 373,323/female 391,901)	total: 24.7 years			total population: 59.57 years							
		55-64 years: 4.98% (male 52,441/female 45,726)	male: 24.7 years			male: 57.57 years							1
Lesotho	2,142,249	65 years and over: 5.6% (2020 est.) (male 57,030 female 53,275)	female: 24.7 years (2020 est.)	20.9	544/100,000	female: 61.64 years (2022 est.)	2.92	64.9	11.3	.07/1000	280,000	16.6	10.5
		0-14 years: 27.94% (male 7,894,742/female 7,883,266)											
		15-24 years: 16.8% (male 4,680,587/female 4,804,337)											1
		25-54 years: 42.37% (male 12,099,441/female 11,825,193)				total population: 65.32 years							1
		55-64 years: 6.8% (male 1,782,902 female 2,056,988)				male: 63.99 years							
South Africa	59,308,690	65 years and over: 6.09% (2020 est.) (male 1,443,956/female 1,992,205)		x	119/100,000	female: 66.68 years (2022 est.)	2.18	54.6	9.10%	.91/1000	7.8 million	28.30%	5.50%

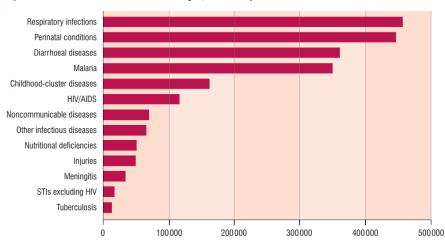


Figure 2.1 The main causes of death in the African Region, females 0-4 years in 2004

Source: Constructed from World Health Organization, GBD 2004 Summary Tables, Health Statistics and Informatics Department, World Health Organization, Geneva, Switzerland, October 2008.

In Fugure 2.1 above, the main cause of deaths for females age 0-4 years is repiratory infections. This is followed by perinatal conditions and then diahereal diseases. Coming in fourth place is malaria, followed in fith place childhood-cluster diseases and then HIV/AIDS. Seventh, eighth and ninth places are occupied by noncommunicable diseases, other infectious diseases and nutritional deficiencies. The Thirteen top diseases are rounded out by injuries, meningitis, STs and tuberculosis respectively.

In looking at Table 2.2 it shows that the African countries had the lowest clinic attendance by women during antenal care coverage. These results are mimiced in having a skilled health attendant at the birth of a child, as well as having baby delivery at a health institution, where Africa for the most shows the lowest rates, except for South Asia.

Table 3.2 Antenatal and delivery care coverage

Delivery care coverage (%) 2000–2007				
Delivered at health institution				
40				
33				
46				
71				
35				
73				
86				
89				

^{*} Central and Eastern Europe and the Commonwealth of Independent States

Source: UNICEF. Progress for Children, New York; 2007.

Figure 3.4 details data on causes of maternal deaths in athe African region, which remains an area of major concern in that health care sector. Outside of other areas, maternal haermorhage for maternal deaths remain significant ar 24%. This is followed by maternal deaths by abortions at 14% and them maternal deaths by maternal sepsis at 12%. Hypertensive disorders, related to high blood pressure for materal deaths stads at 8%, ending with onstructed labor for maternal deaths coming at 5% which remains almost criminal in nature.

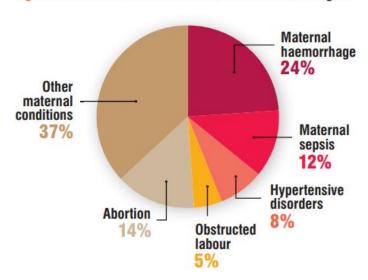


Figure 3.4 Causes of maternal death in the African Region

Source: World Health Organization, Geneva; 2008.

Table 3.4 details the obstetric care facilities in th African region. The table shows that Rwanda has the most emergency obstetric care facilities of the total number required at 86%. This is followed by Niger at 68% and then closely with Benin at 67%. The next top three countries with the most emergency obstetric care facilities of the total number required are: Uganda at 40%, Chad at 40% and then Senegal at 39%. The next three countries with the most emergency obstetric care facilities of the total number required are Mali at 38%, Malawi at 36% and Mozambique at 34%. The table is rounded out by Mauritania at 31% and Cameroon at 29% for countries with the most emergency obstetric care facilities of the total number required.

Table 3.4 Emergency obstetric care facilities in selected countries in the African Region

Five emergency obstetric care facilities per 500 000 **Country and year** population as a percentage (%) of the total number required Cameroon (2000) 29 Mauritania (2000) 31 Mozambique (1999) 34 Malawi (2000) 36 Mali (2002) 38 Senegal (2002) 39 Chad (2002) 40 Uganda (2002) 44 Benin (2002) 67 Niger (2002) 68 Rwanda (2003) 86

Source: Shah IH, Say L. Maternal Mortality and Maternity Care from 1990 to 2005: Uneven but Important Gains. Reprod Health Matters 2007;15(30):17–27.

Figure 3.7 shows heartbreaking statistics on age-standardized incidents of cervical cancer across the world. The results show astronimical high rates in regions such as East Africa, followed by South Africa and then West and Central Africa. Suprising figures are shown fro North Africa with very low rates and regions of South America and South Central Asia with somewhat disturbing high rates.

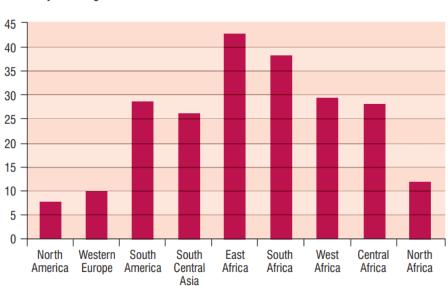


Figure 3.7 Age-standardized incidence of cancer of the cervix per 100 000 population of women by world region

Source: Adapted from Anorlu Rl. Cervical cancer: the Sub-Saharan African perspective. Reprod Health Matters 2008;16(32):41–9.

Table 5.2 depicts the per capita productivity loss due to maternal deaths in the African Region. The data shows that the top ten countries with the highest total productivity loss in international dollars are: South Africa, Angola, Tanzania, Ethiopia and Kenya, Cameroon and Nigeria, Algeria, Chad and Uganda. Ten countries with the lowest total productivity loss in international dollars are: Swaziland, Liberia, Eritrea, Gambia, Zimbabwe, Lesotho, Guinea-Bissau, Comoros, Mauritius and Cape Verde

Table 5.2 Per capita productivity loss due to maternal deaths in the WHO African Region, International Dollars, 2008

Country	(A) Population in 2008	(B) Total productivity loss in International Dollars (PPP)	(C=8/A) Productivity loss per capita (Int\$)
Algeria	34800000	138114369	3.97
Angola	16808000	427 031 289	25.41
Benin	8107000	52763225	6.51
Botswana	1546000	33374887	21.59
Burkina Faso	14042000	80580567	5.74
Burundi	7949000	16276373	2.05
Cameroon	19383000	154233972	7.96
Cape Verde	504000	928584	1.84
Central African Republic	4355000	13542844	3.11
Chad	9730000	130473086	13.41
Comoros	652 000	1691898	2.59
Congo, Republic of	3650000	50875450	13.94
Côte d'Ivoire	19031000	109666830	5.76
Democratic Republic of Congo	62885000	96565663	1.54
Equatorial Guinea	1240000	20705511	16.70
Eritrea	5006000	8636556	1.73
Ethiopia	79179000	239 658 186	3.03
Gabon	1454000	30135783	20.73
Gambia	1630000	6940738	4.26
Ghana	22532000	83155341	3.69
Guinea	10279000	47533534	4.62
Guinea-Bissau	1717000	4997113	2.91
Kenya	35265000	239590136	6.79
Lesotho	2451000	6060570	2.47
Liberia	3942000	9235673	2.34
Madagascar	20 215 000	59859205	2.96
Malawi	13656000	43384564	3.18
Mali	13360000	73158411	5.48
Mauritania	3032000	24 437 451	8.06
Mauritius	1272000	1648778	1.30
Mozambique	20747000	90772756	4.38
Namibia	2045000	12092537	5.91
Niger	13765000	74 108 291	5.38
Nigeria	147810000	1541708626	10.43
Bwanda	9591000	41235267	4.30
Sao Tome & Principe	160 000	-	0.00
Senegal	12519000	67141257	5.36
Sevchelles	82 000	-	0.00
Sierra Leone	5887000	23925759	4.06
South Africa	48687000	800816164	16.45
Swaziland	1022000	11711729	11.46
Tanzania	39743000	312536495	7.86
Togo	6625000	12260758	1.85
Uganda	32042000	119274121	3.72
7ambia	12450000	52300391	4.20
Zimbabwe	11732000	6375405	0.54
Totals	784579 000	5371 516 143	6.85
101013	104015000	3371310143	0.00

Source: Commission's calculations.

Notes: (i) Population estimates are from Source of population data: International Monetary Fund, World Economic Outlook Database, October 2008; (ii) Total productivity loss in International Dollars (PPP) and productivity loss per person in population (Int\$) are estimates of the Commission on Women's Health in the African Region; (iii) Estimates for Sao Tome and Principe and Seychelles are missing because the maternal mortality statistics were missing in the WHO/UNICEF/UNFPA/World Bank latest estimates. Estimates of the indirect costs of maternal deaths for the same year also show the burden carried by Nigeria in Figure 5.1.

Table 5.3 below depicts the cost of services and pregnancy outcomes, according to the use of family planning and maternal and newborn health services in sub-Saharan Africa. In terms of the cost of the current level of services, the data shows that family planning services stood at 290 million and maternal and newborn care stood at 1,460 million. The intended births and miscarriages, with the number in thousands show that intended births and miscarriages stand at 26,950,000 unintended births births and miscarriages stand at 11,730,000 and induced abortions stand at 5,310,000. In terms of number of deaths , the numbers stand at 290,000 for maternal deaths and 1,220,000 in newborn deaths in Sub-Saharan Africa. These figures show the plight of women and their children in Africa and speaks to a need for a fundamental call to address these issues.

Table 5.3 Cost of services, and pregnancy outcomes, according to use of family planning and maternal and newborn health services in sub-Saharan Africa, 2008

Cost and health outcome categories	Cost of current level of services	Cost of 100% of met needs for services
Services	US\$ million	US\$ million
Family planning services	290	2380
Maternal and newborn care	1460	8100
Total	1750	10 480
Pregnancy outcomes	Number in thousands	Number in thousands
Intended births and miscarriages*	26950	26 950
Unintended births and miscarriages	11730	2750
Induced abortions	5310	1240
Total	43 990	30940
	Number of deaths	Number of deaths
Maternal	290 000	90000
Newborn	1220000	670 000
Total	1510000	760 000

Source: Guttmacher Institute and UNFPA (United Nations Population Fund). New York: UNFPA; 2009.

^{*}Number of current intended births and miscarriages are unaffected by the scaling up of family planning services.

DISCUSSION

There is no doubt that women's health in Africa remains a critical issue. The World Health Organization (WHO) indicates that On the African continent, one of the biggest health challenges facing women is the need to improve maternal health (2022). The WHO (2022) states the following about women in Africa "Women in the African Region are more likely to die from communicable diseases including, but not limited to: HIV, tuberculosis and malaria, maternal and perinatal conditions, and nutritional deficiencies, compared to women in other regions. Globally, about 468 million women aged 15–49 years (30% of all women) are thought to be anemic. A majority of this is assumed to be due to iron deficiency for women living in Africa (48–57%)." The World Health Organization (2022) also found the following in Africa: Women account for a slightly smaller proportion of COVID-19 infections and deaths compared with men, by an analysis done by the World Health Organization (WHO), proving this theory, finding 28 African countries. The analysis based on COVID-19 gender specific epidemiological data provided by countries found that although women account for around 41% of COVID-19 cases, this ranges from 31% in Niger to over 57% in South Africa.

With the pandemic accentuating challenges to accessing essential health services, a WHO preliminary analysis in 22 countries found 10 reported a rise in maternal deaths, with the highest increases reported in Comoros, Mali, Senegal and South Africa between February and July 2020, compared with the same period in 2019. Nine of the 22 countries reported a decline in births in health facilities and an increase in complications due to abortions. Based on observation, it's evident that in most countries, women exhibit a lower mortality rate due to COVID-19 compared to men. For instance, the case fatality ratio is 0.4% for women compared to 0.5% in men, while in the Democratic Republic of the Congo it is 2.2% versus 2.7% and 0.1% versus 0.5% in Seychelles.

This comes despite women accounting for a large part of the health workforce which puts them at higher risk of infection. In Africa, more than 95 000 health workers have been infected with COVID-19. In Seychelles, a staggering 71% of health worker infections are borne by women, highlighting the disproportionately high impact on the workforce. Similarly, in Eswatini, women account for 64% of health worker infections, followed by 55% in Cote d'Ivoire and 54% in Senegal (WHO, 2022b), displaying the prevalence of infections among female workers.

While women in Africa experienced lower COVID positive rates, Studies have also found that violence against women, and particularly domestic violence, increased in several countries as security, health, and financial worries created tensions and strains which were worsened by the confined living conditions of lockdown. The impact of the COVID-19 pandemic has led to a profound economic fallout, weighing heavily on women. Informal workers, most of whom are women, account for more than 90% of the labor force in sub-Saharan Africa, according to the

World Bank. The pandemic targeted informal sector jobs, inflicting a tragedy on a vulnerable segment of the workforce (WHO, 2022b).

The World Health Organization (WHO) is actively collaborating with nations worldwide, undertaking measures to mitigate the repercussions of the pandemic on women's health. Several countries have implemented initiatives to ensure services for sexual, reproductive, maternal, newborn, adolescent and older people's health are maintained. The initiatives encompass a multifaceted approach, including the restructuring of antenatal care services, the provision of PPE to mitigate COVID-19 transmission risks, the implementation of mobile-based family planning services, and the facilitation of self-care alternatives for oral injectable contraceptives. These endeavors strive to safeguard women's health and empower them with accessible and innovative solutions as public private partnerships to deliver contraceptives and other family planning commodities (WHO, 2022).g

Mikayla Collins (2022) indicates that "Sixty percent of Africa's HIV positive people are women," The Covid-19 pandemic has exacerbated a dire situation. "There has been an alarming increase in teen pregnancies and child marriages, especially in West and Central Africa during the pandemic" (Collins, 2022). The introduction of localized development programs tailored towards the advancement of women and girls holds the potential for higher standards of health and well-being, leading to an effect extending beyond individual lives, which can in turn benefit the communities in which these women and girls live (Collins, 2022). According to Sanders, access to education is a pivotal factor of success. She goes on to state that, "Less than fifty percent of African women have completed education above the elementary level, emphasizing an urgent need to bridge the educational gap. One way to address this problem, Sanders maintains, would be to register births more accurately in sub-Saharan Africa to enable complete documentation of the number of girls who will need to attend school. The educational programs need to focus heavily on health, in particular women's unique health issues. In order to effectively channel development effort towards women and girls, developpement personnel and policymakers must seek out support from faith leaders, community leaders, and elders, as they all hold a strong emphasis on decisions. This is necessary across all regions of the continent, in rural and urban areas (Collins, 2022).

Women in Africa face massive barriers stemming from the cultural impositions of household or community to the public and governmental policies that restrict their access to education and jobs. These challenges impose constraints on women causing gender inequality across the continent.

One argument that has been made is that having women as leaders has resulted in a positive effect on women's health and other services in a country (Batson, 2021). More specifically, the author states that In comparison to men, women in leadership positions are more likely to

directly respond to the concerns of the community, to allocate funds toward education, health, and nutrition, to prioritize the needs of women, children, and marginalized groups, and to increase research on women's health issues (Batson, 2021).

Correlations between women's access to health and education

There are inequalities between women and men in their access to education. Research shows that "limited access to education for women suggests that women are less likely than men to have information about these diseases and their presentation" (Manderson et al., 1996: 8). This correlation shows women are less informed on medical education about diseases which affects their knowledge about the causes of disease and steps in preventing disease (Manderson et al., 1996). This reveals there is a negative correlation between health and education in women, signifying the less education women have about health, the less awareness they have when diseases appear (Manderson et al., 1996). More research should be done to determine the possible positive correlation between women's education and health.

Main foci on women's health services

What are the main health services geared towards women in health? In SouthAfrica, "women's health services consisted mainly of maternal and child health services,3,4 with an emphasis on contraceptive services aimed at limiting population growth" (Cooper et al., 2004: 71). This shows women in health receive services that aid their reproductive systems and offspring (Cooper et al., 2004).

CONCLUSION

The calls to improve the health care system across African countries is deafening. There is a desperate need to see a movement forward and a definitive improvement in the health and well being of the citizens across the region. These sentiments echo a loud call by Fathalla (1997) twenty-five years ago that the world health sector needed to focus on women's health and in particular health related to women's reproductive and sexual diseases. The author predicted that as these improvements were made, women would come to have more power over their bodies and their health (Fathalla, 1997). Uncomfortable issues such as female circumcision need to be addressed and there needs to be conscious effort to move beyond previous social norms that are patriarchal but detrimental to women's health. Benson (2022) supplied that the following African countries are said to have the best health care system based on the health care index:

South Africa has a health care index score of 63.97; Kenya has a health care index score of 63.40; Tunisia has a health care index score of 56.54; Algeria has a health care index score of 52.88; Nigeria has a health care index score of 48.49; Egypt: Has a health care index score of 47.01; Morocco: Has a health care index score of 46.69. These systems should be analyzed, especially across gender lines. A key question to answer is how can these systems be mimicked in other African countries?

The changes being recommended are not superficial or easy changes to make if they are to sustain each country's health care system. This was highlighted twenty-seven years ago at the Beijing Declaration and Platform For Action. There have been several advances in women's health made worldwide since then, but more needs to be done. The rectification needed must start with each country's infrastructure, especially to rural areas, allowing those areas an easier link to more urban sectors in each country. Those infrastructure changes must also focus on gaining clean water and improved sanitation systems. Increased educational programs that focus on informing citizens on how they can contribute to their own health care improvement must also be addressed, particularly in areas such as prenatal care, STD prevention and general health such as diabetes and hypertension. Finally a thorough tracking system that promotes accountability and documents quantitative improvements needs to be enforced in every African country. The issues must be reevaluated on a regular basis to assess effective and ineffective policies.

Based on the above discussion, more direct health care help is also needed in the form of additional doctors, more health related resources, more food and more nutritious food and more contact between the population and health care providers, especially prenatal care for women. Once babies are born, early efforts should promote more contact between parents, children and health care professionals, as well as more invasive health care provisions related to food, medication and preventative vaccines. This follows a line of argument that encompasses a more direct and purposeful focus that will alleviate the devastating effects of poor health care systems for women and thus children. This may or may not be a new approach, but it is one that should take precedence and one that could have implications that extend beyond the continent of Africa and the individual countries in Africa to other parts of the world with similar circumstances. Most health care advocates agree that the current scenario needs major restructuring and one that is inevitable, desirable and beneficial.

The preceding arguments require not only a reliance on singularly focusing on the key features highlighted above is not enough to eradicate the critical issues related to women's health in Africa. What is needed instead is a process by which a comprehensive focus is given. This will require careful consideration of how the various factors impact and are in turn impacted by improvements in each individual area, as well as the impact of this on other health areas. This

Commented [1]: add source

paper served to present an accurate and up to date picture of the statistics related to women's health on the African continent and strong recommendations to address any deficiencies in the healthcare system. What beckons is a set of solid and feasible recommendations that can result in sustainable policies and programs to address these deficiencies.

REFERENCES

- Abrahams, Z., Mchiza, Z., & Steyn, N. P. (2011). Diet and mortality rates in Sub-Saharan Africa: stages in the nutrition transition. *BMC public health*, 11(1), 1-12.
- Ahmed, Saifuddin et al. "Trends in Contraceptive Prevalence Rates in Sub-Saharan Africa Since the 2012 London Summit on Family Planning: Results from Repeated Cross-Sectional Surveys." *The Lancet global health* 7.7 (2019): e904–e911.
- Alvarez, J. L., Gil, R., Hernández, V., & Gil, A. (2009). Factors associated with maternal mortality in Sub-Saharan Africa: an ecological study. *BMC public health*, 9(1), 1-8.
- Batson A, Gupta GR, Barry M. More Women Must Lead in Global Health: A Focus on Strategies to Empower Women Leaders and Advance Gender Equality. Ann Glob Health. 2021 Jul 12;87(1):67.
- Benson, G., Achanso, S. A., & Mohammed, A. R. (2022). Promoting the Welfare Needs of Ghanaian Children through Policy Interventions and Programs-Reflections of UNCRC Provisions. *International Journal of Childhood Education*, *3*(2), 9-34.
- Boerma, T. (1987). The magnitude of the maternal mortality problem in sub-Saharan Africa. *Social Science & Medicine*, 24(6), 551-558.
- Buor, D., & Bream, K. (2004). An analysis of the determinants of maternal mortality in sub-Saharan Africa. *Journal of Women's Health*, *13*(8), 926-938.
- Chola, Lumbwe et al. "Scaling Up Family Planning to Reduce Maternal and Child Mortality: The Potential Costs and Benefits of Modern Contraceptive Use in South Africa." *PLoS ONE* 10.6 (2015): e0130077–e013007
- Coburn, C., Restivo, M., & Shandra, J. M. (2015). The African Development Bank and women's health: A cross-national analysis of structural adjustment and maternal mortality. *Social science research*, *51*, 307-321.

- Collins, M. 2022. Education and Health Issues Affecting Women and Girls in Africa https://www.fpri.org/article/2022/04/educational-and-health-issues-affecting-women-and-girls-in-africa/
- Conradie, A., Duys, R., Forget, P., & Biccard, B. M. (2018). Barriers to clinical research in Africa: a quantitative and qualitative survey of clinical researchers in 27 African countries. *British Journal of Anaesthesia*, 121(4), 813-821.
- Cooper, D., Morroni, C., Orner, P., Moodley, J., Harries, J., Cullingworth, L., & Hoffman, M. (2004). Ten years of democracy in South Africa: Documenting transformation in reproductive health policy and status. *Reproductive health matters*, 12(24), 70-85..
- Cypriana, C. M., Sebastian, P. J., Devotha, G. M., Kaunara, A. A., Wessy, P. M., Malimi, E. K., & Kasankala, L. M. (2022). Determinants of underweight among children aged 0–23 months in tanzania. *Food Science & Nutrition*, 10(4), 1167-1174. doi:https://doi.org/10.1002/fsn3.2748
- DeVries, M. W. (1985). Temperament and infant mortality among the Masai of East Africa. *Annual Progress in Child Psychiatry & Child Development.*
- Djoumessi, Yannick Fosso. "The Impact of Malnutrition on Infant Mortality and Life Expectancy in Africa." *Nutrition (Burbank, Los Angeles County, Calif.)* (2022): 111760
- Ester, P. V., Torres, A., Freire, J. M., Hernández, V., & Gil, Á. (2011). Factors associated to infant mortality in Sub-Saharan Africa. *Journal of Public Health in Africa*, 2(2).
- Faria, N. R., Vidal, N., Lourenco, J., Raghwani, J., Sigaloff, K. C., Tatem, A. J., ... & Dellicour, S. (2019). Distinct rates and patterns of spread of the major HIV-1 subtypes in Central and East Africa. *PLoS pathogens*, *15*(12), e1007976.
- Fathalla MF. Global trends in women's health. Int J Gynaecol Obstet. 1997 Jul;58(1):5-11.
- Gambino, C., Trevelyan, E. N., & Fitzwater, J. T. (2014). Foreign-born population from Africa, 2008-2012. US Department of Commerce, Economic and Statistics Administration, US Census Bureau.
- Global Health and Development. The Center For Global Health and Development. https://www.cghd.org/index.php/publication/global-health-challenges/investing-in-women-and-girls/144-the-global-challenges-of-health-for-women-in-africa

- Goga, A., Chirinda, W., Ngandu, N. K., Ngoma, K., Bhardwaj, S., Feucht, U., ... & Sherman, G. (2018). Closing the gaps to eliminate mother-to-child transmission of HIV (MTCT) in South Africa: understanding MTCT case rates, factors that hinder the monitoring and attainment of targets, and potential game changers. *South African Medical Journal*, 108(3 Supplement 1), S17-S24.
- Guyatt, H. L., & Snow, R. W. (2001). Malaria in pregnancy as an indirect cause of infant mortality in sub-Saharan Africa. *Transactions of the Royal Society of Tropical Medicine and Hygiene*, 95(6), 569-576.
- Heft-Neal, S., Burney, J., Bendavid, E., & Burke, M. (2018). Robust relationship between air quality and infant mortality in Africa. *Nature*, *559*(7713), 254-258.
- Hollfelder, N., Breton, G., Sjödin, P., & Jakobsson, M. (2021). The deep population history in Africa. *Human Molecular Genetics*, *30*(R1), R2-R10.
- Horn, J. (2003). AMANITARE and African women's sexual and reproductive health and rights. *Feminist Africa*, 2, 73-79.
- Hyder, A. A., Maman, S., Nyoni, J. E., Khasiani, S. A., Teoh, N., Premji, Z., & Sohani, S. (2005). The pervasive triad of food security, gender inequity and women's health: exploratory research from sub-Saharan Africa. *African health sciences*, 5(4), 328-334.
 - Ijaiya, Gafar T et al. "Estimating the Impact of Birth Control on Fertility Rate in Sub-Saharan Africa." *African journal of reproductive health* 13.4 (2009): 137–146
- Johnson, L. F., Rehle, T. M., Jooste, S., & Bekker, L. G. (2015). Rates of HIV testing and diagnosis in South Africa: successes and challenges. *Aids*, 29(11), 1401-1409.
- Karim, S. S. A., & Baxter, C. (2019). HIV incidence rates in adolescent girls and young women in sub-Saharan Africa. *The Lancet Global health*, 7(11), e1470-e1471.
- Kengne, Andre Pascal et al. "New Insights on Diabetes Mellitus and Obesity in Africa–Part 1: Prevalence, Pathogenesis and Comorbidities." *Heart* 99.14 (2013): 979–983.
- Kudamatsu, M., Persson, T., & Strömberg, D. (2012). Weather and infant mortality in Africa. *Available at SSRN 2210191*.
- Lewis, James JCa; Ronsmans, Carineb; Ezeh, Alexc; Gregson, Simona. The population impact of HIV on fertility in sub-Saharan Africa. AIDS: June 2004 Volume 18 Issue p S35-S43

Linard, C., Gilbert, M., Snow, R. W., Noor, A. M., & Tatem, A. J. (2012). Population distribution, settlement patterns and accessibility across Africa in 2010. *PloS one*, 7(2), e31743.

Manderson, L., Mark, T., Woelz, N., & World Health Organization. (1996). *Women's participation in health and development projects* (No. WHO/TDR/GTD/RP/96.1). World Health Organization.

- McCarthy, F. D., & Wolf, H. C. (2001). Comparative life expectancy in Africa. *Available at SSRN 632736*.
- McPake, Barbara, Prarthna Dayal, and Christopher H Herbst. "Never Again? Challenges in Transforming the Health Workforce Landscape in Post-Ebola West Africa." *Human Resources for Health* 17.1 (2019): 19–19.
- Mellor, J. W. (2014). High rural population density Africa—What are the growth requirements and who participates?. *Food Policy*, 48, 66-75.
- Mocumbi, A. O., & Sliwa, K. (2012). Women's cardiovascular health in Africa. *Heart*, 98(6), 450-455.
- Moodley, J., Fawcus, S., & Pattinson, R. (2018). Improvements in maternal mortality in South Africa. *South African Medical Journal*, 108(3), 4-8.
- Moultrie, Tom A, and Nuala McGrath. "Teenage Fertility Rates Falling in South Africa." *South African medical journal* 97.6 (2007): 442–443. Print.
- Mukadi, Y. D., Maher, D., & Harries, A. (2001). Tuberculosis case fatality rates in high HIV prevalence populations in sub-Saharan Africa. *Aids*, *15*(2), 143-152.
- Nelms, L. W., & Gorski, J. (2006). The role of the African traditional healer in women's health. *Journal of Transcultural Nursing*, 17(2), 184-189.
- Nkalu, Chigozie Nelson, and Richardson Kojo Edeme. "Environmental Hazards and Life Expectancy in Africa: Evidence From GARCH Model." *SAGE Open* 9.1 (2019):

The geographical distribution of underweight children in Africa

Nube, M; Sonneveld, B.G.J.S

Bulletin of the World Health Organization, 2005, Vol.83 (10), p.764-770

Pick, W., & Cooper, D. (1997). Urbanisation and women's health in South Africa. *African Journal of Reproductive Health*, 45-55.

- Pillay, N. K., & Maharaj, P. (2013). Population aging in Africa. In *Aging and health in Africa* (pp. 11-51). Springer, Boston, MA.
- Pourreza, A., Sadeghi, A., Amini-Rarani, M., Khodayari-Zarnaq, R., & Jafari, H. (2021). Contributing factors to the total fertility rate declining trend in the Middle East and North Africa: a systemic review. *Journal of Health, Population and Nutrition*, 40(1), 1-7.
- Ramjee, G., & Daniels, B. (2013). Women and HIV in sub-Saharan Africa. *AIDS research and therapy*, 10(1), 1-9.
- Sawatsky, Adam P et al. "Specialization Training in Malawi: a Qualitative Study on the Perspectives of Medical Students Graduating from the University of Malawi College of Medicine." *BMC Medical Education* 14.1 (2014): 2–2.
- Yako, Y. Y., Echouffo-Tcheugui, J. B., Balti, E. V., Matsha, T. E., Sobngwi, E., Erasmus, R. T., & Kengne, A. P. (2015). Genetic association studies of obesity in A frica: A systematic review. *obesity reviews*, 16(3), 259-272.
- Yaya, S., Idriss-Wheeler, D., Uthman, O. A., & Bishwajit, G. (2021). Determinants of unmet need for family planning in Gambia & Mozambique: implications for women's health. *BMC women's health*, 21(1), 1-8.
- World Health Organization (2022a). Women's Heath. https://www.afro.who.int/health-topics/womens-health
- World Health Organization (2022b). Fewer COVID-19 cases among women in Africa: WHO analysis. https://www.afro.who.int/news/fewer-covid-19-cases-among-women-africa-who-analysis