

Indigenous Health 3



Health of Indigenous people in Africa

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Our paper is part of a series focusing on Indigenous peoples' health in different world regions. Indigenous peoples worldwide are subject to marginalisation and discrimination, systematically experiencing poorer health than do majority groups. In Africa, poor health in the general population is widely recognised, but the consistently lower health position and social status of Indigenous peoples are rarely noted. Disputed conceptual understandings of indigeneity, a history of discriminatory colonial and post-colonial policies, and non-recognition of Indigenous groups by some governments complicate the situation. We discuss two case studies, of the central African Pygmy peoples and the San of southern Africa, to illustrate recurring issues in Indigenous health in the continent. We make recommendations for the recognition of Indigenous peoples in Africa and improvements needed in the collection of health data and the provision of services. Finally, we argue that wider changes are needed to address the social determinants of Indigenous peoples' health.

Introduction

Africa's 906 million people were the focus of intense international attention in 2005. Health, especially in relation to achieving the Millennium Development Goals, averting health service collapse, and attacking the disease burden, was a recurring topic.^{1,2} Of this population, however, the Indigenous peoples of the continent have received little attention, although the African Commission on Human and Peoples' Rights (ACHPR) in 2005 described them as "some of the most vulnerable groups on the African continent" whose health situation is "often very precarious and receives very limited attention from the responsible health authorities".³

We discuss the disputed conceptual understanding of indigeneity in Africa and the public health importance of securing recognition of Indigenous rights. We describe the position and health of two Indigenous peoples: the Pygmies of central Africa and the San of southern Africa. Evidence from these groups illustrate the difficulties facing Indigenous communities in Africa, especially with regard to land rights. Such evidence indicates that Indigenous health is systematically worse in many respects than that of majority populations, particularly where through loss of land and other natural resources they are no longer able to maintain traditional livelihoods and sustain traditional culture, knowledge, and institutions. However, data are weak because of well recognised drawbacks to obtaining information in remote areas with scattered populations. In central Africa, these difficulties are compounded by war and political instability and the inability or unwillingness of governments to disaggregate data relating to Indigenous and minority groups. We hope this paper will stimulate awareness of the need for appropriate data to be obtained. We conclude with recommendations for key actions that should be taken to secure the right to health of Indigenous peoples in Africa.

Who are the Indigenous peoples of Africa?

A central issue for Indigenous peoples is recognition, and crucial to this is a common approach to identifying Indigenous groups. The broad and widely accepted working definition of "Indigenous communities, peoples and nations" produced by the UN Permanent Forum on Indigenous Issues emphasises, among other points, the importance of self-definition.^{4,5} The term 'Indigenous' is contested strongly by some parties in Africa, and this issue and that of the rights of Indigenous peoples have been the focus of much discussion.⁶ The report of the African Commission on Human and Peoples' Rights Working Group on Indigenous Populations/Communities, adopted by the Commission in 2005, discusses the problem of definition at length:³

"...the main argument that has always been preferred is that all Africans are indigenous to Africa. Definitely all Africans are indigenous as compared to the European colonialists who left all of black Africa in a subordinate position that was in many respects similar to the position of indigenous peoples elsewhere. However, if the concept of indigenous is exclusively linked with a colonial situation, it leaves us without a suitable concept for analysing the internal structural relationships of inequality that have persisted from colonial dominance."

Search strategy

Indigenous health in Africa is not widely researched and publications are sparse. Sources cited in this paper have been identified through electronic searches of health, development, and social science databases including Medline, PubMed, African Healthline, Eldis, and ID21, and publicly available online datasets, hand searches of selected journals, and individual contact with relevant non-governmental organisations. Published peer-reviewed studies of Indigenous health in Africa are rare, hence we include non peer-reviewed and grey literature.

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This is the third in a Series of four articles about Indigenous health

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“...Africa’s indigenous peoples have their own specific features that reflect from the specific feature of the African state and its role. They have specific attachment to their land and territory; they have specific cultures and mode of production that are distinct from the groups that dominate political, economic and social power.”³

Patterns of migration and settlement in Africa in the pre-colonial era are disputed. However, there is evidence that groups such as the San have lived in southern Africa for 27000 years, long before the migrations of the past 500–1500 years that have shaped current populations.^{7,8} The scramble for Africa and the agreement of colonial borders at the end of the 19th century split many ethnic groups, including Indigenous peoples.⁹ In the colonies, Indigenous peoples were viewed as primitive and were increasingly marginalised. At independence in the second half of the 20th century the colonial boundaries were preserved, both solidifying the international division of Indigenous communities and maintaining their marginalisation within the new states. To establish a sense of national identity governments sought to disregard ethnic difference and, as Saugestad¹⁰ has argued in the case of Botswana, this action resulted in the elevation of “the culture of the numerically dominant [Tswana] people to a new national, neutral standard.”

Social scientists have suggested that being Indigenous is mainly concerned with peoples’ relations to the state and the dominant economic and social structures.^{11,12} In contemporary Africa, Indigenous peoples “experience a range of human rights violations that ultimately boil down to a threat towards their right to existence, and to the social, economic and cultural development of their own choice”.³ Over the past two decades, Indigenous peoples have increasingly sought to overcome the resistance of dominant groups by identifying themselves with the international Indigenous rights movement. A broader, more positive, and more political interpretation of the term Indigenous has developed in Africa as part of the wider international consensus that has emerged in the International Labour Organisation Convention¹³ and the draft UN Declaration on the Rights of Indigenous Peoples.^{14,15} Here the debate has shifted from the issue of aboriginality to a concept based on self-definition, cultural difference, and marginalisation.^{10,13,15} The focus is on rights, especially collective rights to maintain their land, livelihoods, and culture, and to choose their own path to development.

Indigenous is not a “euphemism for primitive”,¹⁶ although there is a danger that Indigenous peoples are obliged to emphasise the traditional at the expense of the reality of their situation. Sylvain⁷ describes the difficulties faced by the San in Namibia, who are required to present their case for land rights in terms of an “essentialized conception of culture”, which ignores their class interests and “the lived practices and beliefs of contemporary San”, most of whom are no longer traditional hunter-gatherers.

Changes in modes of production, relationships with other groups, trade, and intermarriage should not prevent people from identifying themselves and being identified as Indigenous.

More than 14.2 million self-identifying Indigenous people live in Africa. Historically they have been loosely categorised in three groups:¹¹ hunter-gatherers, exemplified by the Pygmy peoples of Central Africa and the San of Southern Africa; fisher people; and pastoralists who range from the Maasai of Kenya and Tanzania, to numerous communities in Sudan and Ethiopia, Tuareg in west and northern Africa, and the Himba in Namibia.¹⁸

Recognition and discrimination

A feature of the colonial period, discrimination against Indigenous peoples, has persisted in many parts of Africa. As the ACHPR describes:

“Terms such as ‘underdeveloped’, ‘backward’, ‘primitive’ and worse are regularly applied...Along with the negative stereotyping and discrimination comes dispossession of the peoples’ land and natural resources, which leads to impoverishment and threatens their cultures and survival as peoples.”³

Lack of recognition by government presents a particular problem for Indigenous peoples in Africa. Colchester¹⁹ notes that “prejudicial attitudes to Indigenous peoples’ ways of life” in national laws and government policies remain prevalent, in opposition to international human rights law. Outcomes range from general government disinterest in recognising Indigenous peoples,^{20,21} to the Rwandan government’s ban on use of the term Indigenous and any promotion of ethnic identity, and the outright rejection by the Botswana government of the San peoples’ rights to traditional lands and culture.^{3,22} Recognition as peoples is contentious because of the legal rights conferred on peoples to self-determination in international law.¹⁵

Where Indigenous groups are recognised, they frequently face challenges in convincing policymakers to accept their perspectives on development initiatives and appropriate service provision. Paternalistic approaches, regarding Indigenous peoples as primitive or vulnerable who will “benefit from modernization and integration into the dominant society”,²³ result in discriminatory and oppressive structures, laws, policies, and practices.

Indigenous people also face direct discrimination in their daily lives. Derogatory attitudes held in the general community and shown by health workers can create barriers to accessing health care: “The Babendjelle [of the North-West Congo Basin] are nicknamed out of prejudice “la viande qui parle” (the animal that can speak) and so do not receive the same treatment as others.”³

The poor formal recognition of Indigenous peoples also poses problems for gathering evidence about their



Dorothy Jackson

Landless Twa in Rwanda

importance of land for survival is indicated by a reported drop in mortality in children younger than 5 years from 59% to 18% when Twa families in Uganda were given land.⁴²

Major causes of childhood death include malaria and measles. In the Central African Republic, a measles epidemic in the late 1970s resulted in 12% of all Aka deaths in the communities studied, regarded as a very high percentage considering the short duration of the epidemic.³⁹ In Congo, mortality from measles was five times higher in Mbendjele children than neighbouring Bantu communities.^{41,43}

Morbidity

Compared with neighbouring Bantu communities, studies of forest-based Mbendjele, Aka, and Baka communities have documented lower prevalence of malaria, rheumatism, respiratory infections, scabies, goitre, syphilis, hepatitis C (three to seven times lower than Bantu communities), high blood pressure, and dental caries. However, leprosy, conjunctivitis, periodontal disease, tooth loss, and splenomegaly are more prevalent than in Bantu communities (webtable).^{38,41,44–50} High intestinal parasite loads are reported from Mbuti in the Democratic Republic of the Congo and Baka in Cameroon.^{49,51} In forest-dwelling Mbendjele in Congo and semi-sedentary Kola in Cameroon,^{41,49} intestinal parasite rates were lower than or similar to neighbouring farming groups, but predominantly village-based Aka in Central African Republic had higher prevalence of helminth and protozoan parasites than did Bantu co-workers.⁵²

Yaws, a painful skin infection that can progress to destruction of soft tissue, cartilage, and bone, is more

prevalent in forest-dwelling Pygmy communities than in neighbouring groups.^{41,51} In Cameroon, Central African Republic, and the Democratic Republic of the Congo between the 1970s and 1990s, 3–50% of Gyéli, Baka, Aka, Mbendjele, and Mbuti surveyed had clinical symptoms of yaws. Serological examinations showed 20–90% of the population, most of them children, had latent infections.^{50,53–56} Prevalence was lower in communities receiving good medical care and information about hygiene.⁵⁷

In Cameroon and Central African Republic during the 1990s, Gyéli, Baka, and Aka were more often seropositive for filoviruses causing haemorrhagic fevers, including Ebola, than were neighbouring subsistence farmers.^{58–60} Kola communities in northeast Gabon were badly affected in Ebola outbreaks. However, in the area of an outbreak of Marburg haemorrhagic fever in the Democratic Republic of the Congo, Mbuti surveyed in 2002 were seronegative for Marburg virus despite substantially higher exposure to wild animals, especially bats—one of the presumed reservoirs of filoviruses—than the local population.⁶¹ The risks to Pygmy communities of filovirus infection via their hunting activities are not well understood.

Where forest dietary resources are depleted by destructive logging or commercial poaching and Pygmy people do not have lands on which to grow alternative foods, nutritional status decreases.^{35,52} Children and pregnant women are especially vulnerable,^{25,49} the problem being exacerbated by the breakdown of traditional food-sharing systems.^{25,38,62} Loss of forests also deprives Pygmy communities of their renowned traditional herbal pharmacopoeia, which contains compounds active against diseases including helminthiasis, guinea worm, jaundice, malaria, diarrhoea, toothache, and cough.⁶³

As Pygmy communities spend more time outside the forest in fixed settlements, malaria increases and parasites accumulate because of increased population density and poor sanitation.^{64–67} Heavy infestations of chiggers (burrowing fleas) cause crippling infections.^{52,68} Traditional cultural mechanisms for dealing with tension and discord (such as nocturnal singing ceremonies to restore harmony between the group members and the forest) are eroded; alcohol abuse and domestic violence against women increase.³⁰

Twa communities no longer living in the forest report malaria, intestinal worms, diarrhoea, and respiratory illnesses as their most serious health problems, a morbidity profile similar to that of their non-Pygmy neighbours.³⁰ In Rwanda and Burundi, 43% and 53% of Twa households were reported to be landless in 2003 and 2001, respectively—3·5 times more than the respective national populations. The situation of the Ugandan Twa is similar.^{30,69,70} Without land, Twa are unable to meet family food needs,³⁰ contributing to the increased childhood mortality. Severely disadvantaged living conditions increase the risk of illness: prevalence of inadequate housing, poor sanitation, and lack of safe drinking water

See Online for webtable

were, respectively, six times, seven times, and two times higher in Rwandan Twa households than the national population in 2003.⁶⁹

HIV-1

Studies in the 1980s and 1990s in Cameroon and the Republic of the Congo showed a generally lower baseline prevalence of HIV-1 in Baka and Aka people (range 0–1.6%) than in neighbouring populations (range 0–5.4%).^{46,47,53,56} The lower prevalence of HIV (and hepatitis C) infection in Pygmy communities could be because intermarriage with Bantu people is infrequent and monogamy is more common than among Bantus.^{30,38} Where intermarriage occurs it is almost always Pygmy women marrying out of their communities, their lower bride price and perceived higher fertility making them a more attractive prospect for Bantu men.^{30,36}

Nevertheless, HIV prevalence is increasing in Pygmy populations, probably through increased contact with Bantus.⁷¹ Between 1993 and 2003, HIV infection reportedly increased from 0.7% to 4% in Baka Pygmies in the Yokadouma region of eastern Cameroon.⁷² The spread of sexually transmitted diseases increases with the influx of transient labour employed on logging camps, road building, and infrastructure projects. Pygmy women are at particular risk of HIV infection through rape, especially in zones of armed conflict, and also because of the belief of other ethnic groups that sexual intercourse with a Pygmy woman protects against backache, AIDS, and other ailments.^{30,73}

Access to health care

In much of rural central Africa, primary health services are absent, function only in a rudimentary way, or have been destroyed during conflict. Even where health care facilities exist, many Pygmy people do not use them because they cannot pay for consultations and medicines, do not have the documents and identity cards needed to travel or obtain hospital treatment, or are subjected to humiliating and discriminatory treatment.^{30,41,74} More than inaccessibility, public health services can fail to reach Pygmy communities because of active discrimination. Vaccination campaigns in Congo during 1996 prioritised the Bantu community, and treatments dispensed by health posts reach the Bantu community more than Pygmies. Bantu intermediaries responsible for delivering leprosy medication to Pygmies can extort payment or labour from them.^{41,43,74}

The high mortality of Pygmy children from measles and the higher prevalence of endemic diseases such as yaws and leprosy in Pygmy communities than in Bantu communities indicates their exclusion from government health services.⁷⁵ The prejudice against Pygmy people, coupled with their poverty and inadequate government policies, prevents them from gaining basic citizens' rights including access to health care and land, and to education, employment, and justice.^{30,70,72,73,76} In the

absence of government policies and programmes providing equitable access to health care, Pygmy communities often depend on missionaries, non-government organisations, and development agencies. Some programmes have trained Pygmy primary-care workers and established dispensaries that are run by the community.^{24,41,65,77} With proper planning, health campaigns can reach Pygmy communities, despite their mobility and remoteness. In the mid-1990s, a privately organised campaign gave hundreds of Aka people in northern Congo the single shot of penicillin needed to cure yaws.⁵³ In 2002, UNICEF vaccinated Pygmy children in the Democratic Republic of the Congo, Congo, and Central African Republic against poliomyelitis.

Over the past 5 years, attitudes of health staff in some areas have begun to change,^{30,42} and through the raising of awareness more Pygmy communities now know about free services provided by the government. In Rwanda, 68% of Twa women have received antenatal vaccinations, and 90% of children younger than 5 years have received one or more of the DTaP (diphtheria, tetanus, and pertussis), polio, tuberculosis, and measles vaccinations.⁶⁹ Economic empowerment programmes run by non-government organisations are enabling Twa to generate incomes and so join local health insurance schemes and improve their living conditions.

Pygmy peoples have shown themselves to be resilient; for centuries they have been adapting to new situations while maintaining their cultural distinctiveness, as long as they can still have access to forests. Pygmy groups who are still able to lead a largely forest-based life have better health in several respects than nearby farming groups. Forests are also where they feel at ease, a vital component of their sense of wellbeing, and mental and spiritual health. By contrast, loss of forest lands and resources, and the consequent sedentisation, increases Pygmy communities' risks of inadequate nutrition, infectious diseases, parasites, and HIV/AIDS without necessarily increasing their access to health care. To protect and improve Pygmy peoples' health, governments, development agencies, missionaries, and non-government organisations must work to secure Pygmy peoples' rights to their customary lands and resources, and develop policies and programmes that ensure equitable access to health care, on the basis of consultations with Pygmy communities about their concept of wellbeing and good health.

The San of southern Africa

“The San are widely recognised as the most impoverished, disempowered, and stigmatised ethnic group in Southern Africa”¹⁷

The San are the Indigenous people of the southern African region who have inhabited the land for around 27 000 years.^{7,8} Different local histories and post-colonial approaches by governments have shaped the differing

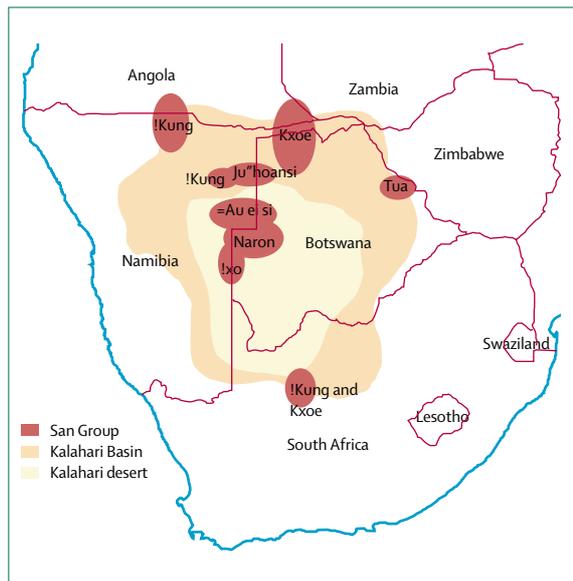


Figure 2: San populations in Southern Africa
Adapted from Suzman.⁷³

situations of San groups across southern Africa today. At the start of European colonisation in the mid-17th century, there were up to 300 000 Khoesan peoples. Most were eradicated, caught between the European settlers and Bantu migrants from the north and east. By the beginning of the 20th century the San were concentrated in remote areas around the Kalahari basin.⁷⁸ Today this population group is known in different areas as the San, the Baswara, or Kalahari Bushmen. These names have developed from derogatory terms used in different languages, showing entrenched discrimination against the San. Most groups refer to themselves by their community names but have currently accepted the collective term San. Suzman⁷⁸ estimates that there are between 85 000 and 90 000 San spread across six countries with a population growth rate of around 2%. Small populations live in Angola (1200), South Africa (4350), Zambia (300) and Zimbabwe (2500); here we focus on the vast majority in Botswana (47 000) and Namibia (32 000).³ Figure 2 shows the distribution of San populations in southern Africa.

In Botswana, the National Constitution refers to the eight main tribes of Botswana but does not include the San, and the government acquires no census data on an ethnic basis.⁷⁸ Suzman's debated 2001 population estimate of 47 000 San makes up 4% of the national population, located chiefly in Ghanzi and Kgalagadi districts but also living in other areas including the major towns.⁷⁸ Although Botswana has the fourth highest income per head on the African continent,⁷⁹ income inequality within the country is high, with the poorest 10% of the population receiving only 0.7% of the nation's income.⁸⁰ This group largely consists of the San and related minority communities whose position is the result of a long history of subordination pre-dating colonisation.⁸²

After independence, the main thrust of government policy has been integrationist, seeking to incorporate the San into mainstream society, but relegating them in reality to the bottom of the social hierarchy as a subordinate underclass:^{78,81}

"How can you have a stone-age creature continuing to exist in the time of computers? If the Bushmen want to survive, they must change, otherwise, like the dodo they will perish."

*Festus Mogae, President of Botswana*⁷⁸

Land issues have propelled the San of Botswana into international limelight in recent years. A long and controversial process of removing and resettling San from their lands in the Central Kalahari Game Reserve and dissolving their hunting and gathering rights is currently being challenged in the courts.⁸²

In Namibia, history took a different course. Anthropologist Renée Sylvain¹⁷ describes two diverging pathways of the San population in Namibia over the past century; "For some groups colonial rule and apartheid meant segregation in geographically remote areas which formed part of their traditional lands (or in game parks); for the majority of Namibian San, however, they meant incorporation as a landless underclass of farm labourers, domestic servants and squatters". Post-independence Namibia has followed a pluralist approach, allowing for the establishment of conservancies where "communities can achieve a level of control over some of the natural resources and thereby generate income from game management and tourism".⁸² Although some San have managed to take advantage of this control and two conservancies have been established, they only account for a very few living an adapted form of traditional life. Most continue to work as labourers and domestic workers on commercial farms or the cattle posts of Bantu-speaking agro-pastoralists.⁸³ New labour laws have resulted in many being forced off the farms into resettlement camps where poverty and welfare dependency have increased.⁷⁸



San children living in slum conditions in Ghanzi, Botswana

Lottie Davies/Survival

The health status of the San across Southern Africa is closely linked to their poverty. Figure 3 shows the position of San speakers in the Namibian Human Development Index (HDI) during the late-1990s.^{78,84,85} The HDI score combines measures of life expectancy at birth, education (adult literacy and school enrolment), and income (gross domestic product per head). Not only are the San in the lowest position, but also they are the only group whose HDI score falls over the 2-year comparison.

Health in the resettlement areas indicates the problems seen in other places where Indigenous peoples have been displaced and resettled.^{87,88} Conventionally recorded morbidity and mortality data are scarce, with the most evidence gathered from the work of anthropologists and non-government organisations.

Alcohol and domestic violence

Increasing consumption of alcohol in San settlements has been reported over the past two decades, attributed to cultural upheaval and loss of land, resources, and community networks.⁸⁸ Alcohol consumption in resettlement areas in Botswana is described as “no longer primarily for pleasure...there are reports of excessive use of alcohol as an analgesic for both existential and physical pain”.⁸⁹ Sylvain⁸³ describes the effect of alcohol on the landless San in Omaheke in Namibia. Home-brewed beer is sold by the non-San poor to the San for whom it is “the cheapest form of sustenance” to “kill the hunger”. Deprived of their traditional livelihoods and forced into resettlement camps, San women have gradually lost their traditionally equal status with men. Excessive alcohol consumption plays a major part in a rise in gender violence, a trend which Sylvain notes is an increasing problem among young people. This situation is not confined to the San but is a noticeable feature of dispossessed aboriginal societies everywhere. Ultimately, it is a problem of poverty stemming from the loss of land and livelihoods without a viable alternative.

HIV/AIDS

As elsewhere in sub-Saharan Africa, HIV/AIDS is a major cause of death in Namibia and Botswana. In Namibia, national adult prevalence rose from 4.2% in 1992 to 23.3% in 2002,⁹⁰ accounting for over 25% of deaths in health facilities.⁹¹

In 2004, Botswana had the world's highest mortality rate (28 per 1000 population) and lowest life expectancy at birth of 35 years, with very high adult HIV/AIDS prevalence of 37.3%.⁷⁹ Although formally disaggregated data are not available, in 2002 the rate for the San in Ganzi was lower at 21.4% than the national average of 35.4%,⁹² indicating that the remoteness of the San, particularly in the Central Reserve, might have protected them from the high rates recorded elsewhere.

The outlook in the resettlement camps is disturbing. Although no official data are available, anecdotal evidence from the camps gathered by representatives of non-

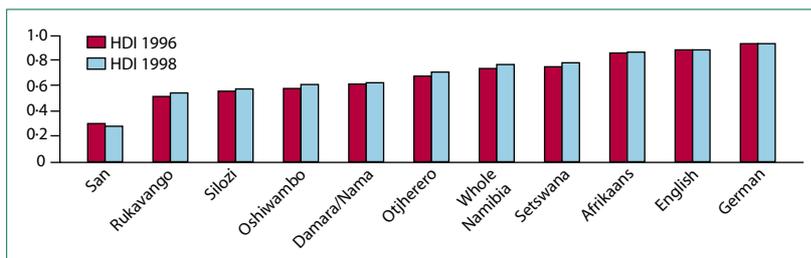


Figure 3: Namibian Human Development Index (HDI) by language group: 1996 and 1998
Reproduced from Suzman,⁷⁸ based on UNDP data 1996 and 1998.^{84,85}

governmental organisations indicate that residents are aware of increasing exposure to HIV/AIDS:

“JCBs and caterpillars are working here now but they aren’t doing development, they are bringing in AIDS. All these guys come here, they have a lot of money, they meet with Bushman women, buy them alcohol, sleep with them, and bring them AIDS. There’s development and AIDS, but there’s more AIDS than development. According to our culture, we didn’t know all these diseases. I didn’t think I would die at my age, I thought I’d die only when I was very, very old. We only expect old people to die, but right now we are dying like never before.”

Roy Sesana, a San leader in New Xade resettlement camp, Botswana, 2003⁹³

In Namibia, accurate data for the San population are not available. Unconfirmed reports suggest that prevalence in the more isolated north is much lower, and there are fears that the displaced San population, especially in the areas along the newly opened trans-Kalahari highway in the Omaheke region, are increasingly vulnerable. Discussing the vulnerability of San women because of a “widespread belief that ‘Bushman’ women are highly promiscuous and generally sexually available”⁸³ and the unregulated and lawless environment in which they live, Sylvain points to the high risk of a substantial rise in HIV/AIDS prevalence in the San in the future.⁸³

Discussion

The two cases presented here illustrate the problems that need to be addressed to improve the health and well being of Indigenous peoples in Africa. Providing better and more accessible health services is essential. But if the underlying causes are to be addressed, wider social, political, and economic issues need to be tackled. There is a desperate need to improve the social and economic position of most of Africa’s population. Health services are at best inadequate for most and entirely absent for many. We have highlighted the problematic lack of recorded disaggregated data and original research about Indigenous peoples’ health in Africa. Far more information needs to be gathered and analysed to compile an accurate picture, but what is known about Indigenous peoples’ access to health services suggests that poverty, marginalisation, and discrimination compound the

problems experienced by the rest of the population. The ACHPR describes Indigenous peoples' situation as follows:

"The infrastructure in most areas occupied by Indigenous peoples is either lacking or is inadequate. Social services such as schools and health facilities are few and far between, while the roads and other physical infrastructure is equally poor. This has had a negative impact on the staffing levels and quality of services offered. As a result, illiteracy levels and mortality rates in such areas are higher than national averages."³

Majority populations must find a way to ensure equity for Indigenous peoples. Active participation of communities in the development, management, and delivery of services is crucial. In creating an Indigenous-owned process to establish appropriate health systems, there is a huge challenge of "developing partnerships in an unequal world".⁴ The key is for Indigenous peoples to be empowered to participate equally in debate and decision-making. The debate has to address not only the provision of health care, but also the social determinants of health. Such debate should seek to find a framework that draws on useful elements of state infrastructure and services, but ensures the economic and cultural survival and development of Indigenous peoples in Africa. Meeting that challenge is crucial to achieve the ambition set out for the Second International Decade of the World's Indigenous Peoples that:

"Access to comprehensive, community-based and culturally appropriate health care services, health education, adequate nutrition and housing should be ensured without discrimination. Measures to guarantee the health of Indigenous peoples must be seen as a collective and holistic issue involving all members of the communities and including physical, social, mental, environmental and spiritual dimensions."⁵

Introducing the WHO Commission on Social Determinants of Health, Michael Marmot states: "if the major determinants of health are social, so must be the remedies."⁶

The two case studies in central and southern Africa show the challenges of recognition, marginalisation, and discrimination. In the post-colonial period, attempts have been made to suppress ethnic differences in the interests of building national conscience, and to cast Indigenous peoples both as a danger to national survival and as a block to development. As a result the major determinants of their poor health status are dispossession from their lands, destruction of their culture, discrimination, and marginalisation leading to poverty and the associated high prevalence of both communicable and non-communicable disease. In the case of the Pygmies, the situation has been exacerbated by widespread conflict.

Indigenous people define themselves in terms of their relationships with their land, environment, and community, making their environment essential not only for physical provisioning and regulating services but also

for physical and cultural survival. Land rights are continually cited as a primary barrier for Indigenous people in Africa, and are described by the ACHPR as "fundamental for the survival of Indigenous communities".³ The Minority Rights Group states that "conflicts over land rights and access to land are the source of many violations of the rights of minorities and Indigenous peoples".⁷ Defining their relationship to the land and participation in decisions on its use does not imply a wish to secede or maintain themselves in a primitive state, but a recognition of the right to choose a concept of and path to development within the modern nation state.

Unless Indigenous peoples are recognised and empowered to negotiate on equal terms with majority populations, they will not be able to secure an equitable settlement with the dominant group. The forced removal of the San from the Central Kalahari Game Reserve in Botswana provides a stark example both of prejudice and the exercise of majority power, and of the consequences to the social structure and health of the dispossessed. The creation of National Parks has led to the exclusion of the Twa from the forests in Uganda⁸ and many other parts of Central Africa.²⁸ Local contexts vary but the importance of establishing equal rights and an end to discrimination remains constant.

By focusing on marginalisation and exclusion, we recognise that we have not been able to give a proper account of the contribution Indigenous peoples can make. Indigenous knowledge includes the effective use and preservation of land and natural resources in environments that are often hostile. Traditional medicines and practices could be harnessed for the benefit of the wider society. The emergence of an Indigenous peoples movement in Africa as part of a wider international process signals the determination of such peoples to secure recognition of both their existence and their potential contribution.¹⁵

In seeking solutions, other African states could start by looking at the example provided by South Africa in recognising claims to land, and the adoption of a memorandum creating the first Indigenous peoples' policy process in Africa.⁸² The adoption of the report of the African Commission on Human and Peoples' Rights offers further encouragement, but much remains to be done. Achieving equity and justice in health will need wider changes to meet the rights claimed in the draft UN Declaration on Indigenous issues.³⁹ As Maybury-Lewis¹¹ argues, this could "entail a rethinking and re-organization of most states of the world". Certainly it requires new approaches to dealing with diversity, cultural difference, and self-determination.

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References

- 1 Commission for Africa. *Our Common Interest: Report of the Commission for Africa*. London, 2005.
- 2 World Bank. *Global Monitoring Report Millennium Goals: From Consensus to Momentum*. Washington, 2005.

- 3 African Commission on Human and Peoples' Rights (ACHPR). Report of the African Commission's Working Group on Indigenous Populations/Communities, 2005.
- 4 United Nations. The Concept of Indigenous. Background paper prepared by the Secretariat of the Permanent Forum on Indigenous Issues. Workshop on Data Collection and Disaggregation for Indigenous Peoples. New York: United Nations, Secretariat for Indigenous Peoples, 2004.
- 5 Stephens C, Porter J, Nettleton C, Willis R. Disappearing, displaced and undervalued: a call to action for Indigenous health worldwide. *Lancet* 2006; **367**: 2019–28.
- 6 Hitchcock R, Vindig D. Indigenous people's rights in Southern Africa: IWGIA, 2004.
- 7 Commonwealth Policy Studies Unit. Recognising and Protecting Indigenous Peoples' Rights in the Commonwealth: memorandum to the Commonwealth Heads of Government Meeting, Abuja, Nigeria, Dec 1–7, 2003.
- 8 Lewis-Williams JD. Discovering southern African rock art. Cape Town and Johannesburg: D Philip Publishers, 1990.
- 9 Okafor OC. Re-defining legitimate statehood. International law and state fragmentation in Africa. The Hague: Kluwer Law International, 2000.
- 10 Saugested S. The inconvenient Indigenous. Remote area Development in Botswana, donor assistance and the First People of the Kalahari Uppsala: Nordic Africa Institute, 2001.
- 11 Maybury-Lewis D. Indigenous peoples, ethnic groups and the state. Needham, Massachusetts: Allyn & Baker, 2002.
- 12 McCaskill D, Kampe K, eds. Development or domestication? Indigenous peoples of Southeast Asia. Chiang Hai: Silkworm Books, 1997.
- 13 International Labour Organisation. Convention (No. 169) concerning Indigenous and Tribal Peoples in Independent Countries, adopted on 27 June 1989 by the General Conference of the International Labour Organisation at its seventy-sixth session, 1989.
- 14 Hodgeson D. Transnational advocacy and the indigenous rights movement in Africa (in press).
- 15 Hodgeson DL. Introduction: comparative perspective on the Indigenous rights movement in Africa and the Americas. *Am Anthropol* 2002; **104**: 1037–49.
- 16 Kuper A. Indigenous people: an unhealthy category. *Lancet* 2005; **366**: 983.
- 17 Sylvian R. Land, water and truth. *Am Anthropol* 2002; **104**: 1074–85.
- 18 International Work Group for Indigenous Affairs. The Indigenous World 2004. Copenhagen: The International Work Group for Indigenous Affairs, 2004.
- 19 Colchester M. Indigneous peoples and protected areas: rights, principles and practice. *Nomadic Peoples* 2003; **7**: 33–51.
- 20 International Work Group for Indigenous Affairs. Central Africa and Cameroon. In: Vinding D, Stidsen S, eds. The Indigenous world 2005. Copenhagen: The International Work Group for Indigenous Affairs, 2005.
- 21 International Work Group for Indigenous Affairs. Horn of Africa and East Africa. In: Vinding D, Stidsen S, eds. The Indigenous world 2005. Copenhagen: The International Work Group for Indigenous Affairs, 2005.
- 22 Good K. Bushmen and diamonds: (un)civil society in Botswana. Uppsala: Nordic Africa Institute, 2003.
- 23 Corpuz VT. Millennium Development Goals and indigenous peoples, Permanent Forum on Indigenous Issues, Fourth session, Item 3 of the provisional agenda, Special theme. New York, May 16–27, 2005.
- 24 Jackson D. Implementation of international commitments on traditional forest-related knowledge; indigenous peoples' experiences in Central Africa. In: H Newing, ed. Our knowledge for our survival, Vol 1. Regional case studies in traditional forest-related knowledge and implementation of related international commitments. International Alliance of the Indigenous and Tribal Peoples of the Tropical Forests, Forest Peoples Programme, and Centre for International Forestry Research. 2005: 150–303.
- 25 Barume A. Heading towards Extinction? Indigenous Rights in Africa: The case of the Twa of the Kahuzi-Biega National Park, Democratic Republic of Congo: Forest Peoples Programme and IWGIA, 2000.
- 26 Panter-Brick C, Layton RH, Rowley-Conway P. Hunter-gatherers: an interdisciplinary perspective. Cambridge University Press, 2001.
- 27 Biesbrouck K, Elders S, Rossel G. Challenging Elusiveness. Central African hunter-gatherers in a multidisciplinary perspective: research school for Asian, African and Amerindian Studies (CNWS), University of Leiden, Holland, 1999.
- 28 Nelson J, Hossack L. From Principles to Practice: Indigenous peoples and protected areas in Africa: Forest Peoples Programme, 2003.
- 29 Knight J. Relocated to the Roadside: preliminary observations on the forest peoples of Gabon. *African Study Monographs*, 2003; **28** (Suppl): 81–121.
- 30 Jackson D. Twa women, Twa rights in the Great Lakes region of Africa. London: Minority Rights Group International, 2003.
- 31 Lewis J. The Batwa Pygmies of the Great Lakes region. London: Minority Rights Group International, 2000.
- 32 Lewis J, Knight J. The Twa of Rwanda. Assessment of the Situation of the Twa and Promotion of Twa Rights in Post-War Rwanda.: World Rainforest Movement and International Work Group for Indigenous Affairs, 1995.
- 33 Human Rights Watch. Ituri: Covered in blood. Ethnically targeted violence in north-eastern DR Congo. 2003; vol 15, no 11 <http://hrw.org/reports/2003/ituri0703/> (accessed May 8, 2006).
- 34 Lattimer M. Erasing the Board. Report of the international research mission into crimes under international law committed against the Bambuti Pygmies in the eastern Democratic Republic of Congo. London: Minority Rights Group International, 2004.
- 35 Kabanankye K, Wily L. Report on a study of the Abayanda [Batwa] Pygmies of South West Uganda for Mgahinga and Bwindi Impenetrable Forest Conservation Trust, 1996.
- 36 Hewlett B. Cultural diversity among African Pygmies. In: Kent S, ed. Cultural diversity among twentieth century foragers: an African perspective. Cambridge: Cambridge University Press, 1996: 215–44.
- 37 Pennington R. Hunter-gatherer demography. In: Panter-Brick C, Layton R, Rowley-Conway P, eds. Hunter-gatherers: an interdisciplinary perspective. Cambridge: Cambridge University Press, 2001: 170–204.
- 38 Hewlett B. Aka Pygmies of the Western Congo Basin. <http://www.vancouver.wsu.edu/fac/hewlett/introaka.html> (accessed May 5, 2006).
- 39 Hewlett B, Koppel J vd, Koppel M vd. Causes of death among Aka Pygmies in the Central African Republic. In: LL Cavalli-Sforza, ed. African Pygmies. New York: Academic Press, 1986, 45–63.
- 40 Episcopal Medical Missions Foundation. Making a difference in Uganda. <http://www.emmf.com/ugandasurvey.htm> (accessed May 5, 2006).
- 41 Lewis I. Discrimination and access to health care: the case of nomadic forest hunter-gatherers in Africa. MSc Dissertation: University of London, 1999.
- 42 Balenger S, Coppenger E, Fried S, Kanchev K. Between forest and farm: identifying appropriate development options for the Batwa of Southwestern Uganda: first peoples worldwide/George Washington University Report, 2005.
- 43 US Department of State. Congo country report on human rights practices for 1996. Released by the Bureau of Democracy, Human Rights, and Labour, Jan 30, 1997. <http://www.usemb.se/human/human96/congo.html> (accessed May 8, 2006).
- 44 Walker P, Hewlett B. Dental health and social status among central African Foragers and Farmers. *Am Anthropol* 1990; **92**: 383–97.
- 45 Louis FJ, Maubert B, Le Hesran JY, Kemmegne J, Delaporte E, Louis JP. High prevalence of anti-hepatitis C virus antibodies in a Cameroon rural forest area. *Trans R Soc Trop Med Hyg* 1994; **88**: 53–54.
- 46 Ndumbe PM, Atchou G, Biwole M, Lobe V, Ayuk-Takem J. Infections among Pygmies in the eastern province of Cameroon. *Med Microbiol Immunol (Berlin)* 1993; **182**: 281–84.
- 47 Kowo MP, Goubau P, Ndam EC, et al. Prevalence of hepatitis C virus and other blood-borne viruses in Pygmies and neighbouring Bantus in southern Cameroon. *Trans R Soc Trop Med Hyg* 1995; **89**: 484–86.
- 48 Baquillon G, Scandella B, Testa J, Desfontaines M, Andre J, Limbassa J. Enquête sur la lèpre en République Centrafricaine, de 1982 à 1985, chez les Pygmées Ba-Banzélé. *Acta Leprol* 1992; **8**: 71–78.
- 49 Froment A. Evolutionary biology and the health of hunter-gatherer populations. In: Panter-Brick C, Layton R, Rowley-Conway P, eds. Hunter-gatherers: an interdisciplinary perspective. Cambridge University Press, 2001: 239–66.

- 50 Pampiglioni S, Wilkinson A. A study of yaws among pygmies in Cameroon and Zaire. *Brit J Vener Dis* 1975; 51: 165–69.
- 51 Cavalli-Sforza L. African Pygmies. New York: Academic Press, 1986.
- 52 Lilly AA. Human social issues, disease, and sympatric apes in the Central African Republic. In: Paterson JD, Wallis J, eds. Commensalism and Conflict: the human-primate interface. American Society of Primatologists, 2005: 60–75.
- 53 Salomone G. La Lutte contre les Grandes Endémies des Populations Équatoriales. L'exemple du Pian chez les Pygmées du Nord-Congo. Doctorat de Sciences Juridiques et Politiques: Université Paris-VII-Denis Diderot, 2000.
- 54 Cirera P, Palisson MJ, Pinerel G, Jaeger G. La sérologie tréponémique dans une population de Pygmées Bi-Aka centrafricaine. *Bull Soc Path Ex* 1977; 70: 32–36.
- 55 Hervé V, Kassa Kelembho E, Normand P, Georges A, Mathiot C, Martin P. Réurgence du pian en République Centrafricaine, rôle de la population pygmée comme réservoir de virus. *Bull Soc Path Ex* 1992; 85: 342–46.
- 56 Moullia-Pelat JP, Makuwa M, Penchenier L, Jannin J, Fadat G, Miehakanda J. Les Pygmées : une ethnie à l'abri des MST? *Médecine d'Afrique Noire* 1992; 39: 140–41.
- 57 Martin PMV, Gonzalez JP, Martin MH, Georges-Courbot MC, Palisson MJ, Georges AJ. Clinical aspects and usefulness of indirect absorbed immunofluorescence for diagnosis of yaws in Central Africa. *J Clin Microbiol* 1988; 26: 2432–33.
- 58 Johnson ED, Gonzalez JP, Georges A. Filovirus activity among selected ethnic groups inhabiting the tropical forest of equatorial Africa. *Trans R Soc Trop Med Hyg* 1993; 87: 536–38.
- 59 Bouree P, Bergmann JF. Ebola virus infection in man: a serological and epidemiological survey in the Cameroons. *Am J Trop Med Hyg* 1983; 32: 1465–6.
- 60 Gonzalez JP, Nakoune E, Slenczka W, Vidal P, Morvan JM. Ebola and Marburg virus antibody prevalence in selected populations of the Central African Republic. *Microbes Infect* 2000; 2: 39–44.
- 61 Borchert M, Mulangu S, Swanepoel R, et al. Pygmy populations seronegative for Marburg Virus. *Emerg Infect Dis* 2005; 11.
- 62 Kitanishi K. Variability of in the subsistence activities and distribution of food among different aged males of the Aka hunter-gatherers in north-eastern Congo. *African Study Monographs*, 1996; 17: 35–57.
- 63 Betti JL. An ethnobotanical study of medicinal plants among the Baka Pygmies in the Dja biosphere reserve, Cameroon. *African Study Monographs*, 2004; 25: 1–27.
- 64 Heymer A. Sédentarisation, acculturation et maladies infectieuses, un problème socio-écologique des Pygmées bayakas. *Bull Soc Path Ex* 1985; 78: 226–38.
- 65 Kretsinger A. Recommendations for Further Integration of Ba'Aka Interests in Project Policy. Dzanga-Sangha Dense Reserve. Draft Report August 1993.
- 66 Sarno L. Song from the forest: my life with the ba-anjelle Pygmies: Houghton Mifflin, 1993.
- 67 Noireau F. Infestation by *Auchmeromyia senegalensis* as a consequence of the adoption of non-nomadic life by Pygmies in the Congo Republic. *Trans R Soc Trop Med Hyg* 1992; 86: 329.
- 68 Lewis J. Forest hunter-gatherers and their World: a study of the Mbandjele Yaka Pygmies of Congo-Brazzaville and their secular and religious activities and representations (DPhil thesis). The London School of Economics and Political Science, 2002.
- 69 CAURWA/Forest Peoples Project. Conditions de vie de la population Batwa au Rwanda, 2004. http://www.forestpeoples.org/documents/africa/rwanda_summary_living_stds_survey_oct04_fr.pdf (accessed May 5, 2006).
- 70 Forest Peoples Programme/UOBDU. Supplemental report on the First Periodic Report of Uganda on the Convention on the Rights of the Child CRC/C/65/Add.3 (State Party report), submitted to the UN Committee on the Rights of the Child, May 31, 2005. http://www.forestpeoples.org/documents/africa/crc_supp_%20rep_uganda_%20may05_eng.pdf (accessed May 5, 2006).
- 71 Ndembu N, Habakkuk Y, Takehisa J, et al. HIV type 1 infection in Pygmy hunter gatherers is from contact with Bantu rather than from non-human primates. *AIDS Res Hum Retroviruses* 2003; 19: 435–39.
- 72 Tchoumba B. Indigenous and tribal peoples and poverty reduction strategies in Cameroon. Geneva: International Labour Organisation, 2005.
- 73 OCDH (Observatoire Congolais des Droits de l'Homme). The situation of the Pygmies in the Republic of Congo: Rainforest Foundation, 2004.
- 74 Hewlett BS. Ngotto Reserve foragers and rural development: ECOFAC Project, République Centrafricaine, nd. <http://www.vancouver.wsu.edu/fac/hewlett/akacons.html> (accessed May 5, 2006).
- 75 Meheus A, Antal GM. The endemic treponematoses: not yet eradicated. *World Health Stat* 1992; 45: 228–37.
- 76 Kenrick J, Lewis J. Discrimination against the forest people ('Pygmies') of Central Africa. In: Racism against Indigenous Peoples. Copenhagen: IWGIA, 2001: 312–25.
- 77 Wilkie DS, Morelli G. Ituri forest peoples fund: assisting Indigenous peoples in conflict areas. *Cultural Survival Quarterly* 2005; 29.
- 78 Suzman J. An Introduction to the Regional Assessment of the San in Southern Africa. Windhoek: Legal Assistance Centre, 2001. <http://www.lac.org.na/publications/publabc.htm> (accessed May 31, 2006).
- 79 PRB. 2005 World Population Data Sheet of the Population Reference Bureau. Washington: Population Reference Bureau, 2005.
- 80 UNDP. Human Development Report 2005. New York: United Nations Development Programme, 2005.
- 81 Good K. The state and extreme poverty in Botswana: the San and destitutes. *Journal Mod Afr Stud* 1999; 32: 185–205.
- 82 International Work Group for Indigenous Affairs. Southern Africa. In: Vinding D, Stidsen S, eds. The Indigenous World 2005. Copenhagen: The International Work Group for Indigenous Affairs, 2005.
- 83 Sylvain R. San women today: inequality and dependency in a post-foraging world. *Indigenous Affairs* 2002; Indigenous Women 1–2/04: 8–13.
- 84 UNDP. Human Development Report 1996: Economic growth and human development. New York: United Nations Development Programme, 1996.
- 85 UNDP. Human Development Report 1998: Consumption for Human Development. New York: United Nations Development Programme, 1998.
- 86 Anderson I, Crengle S, Kamaka ML, Chen T-H, Palafox N, Jackson-Pulver L. Indigenous health: Australia, New Zealand and Pacific. *Lancet* 2006; 367: 1775–85.
- 87 Montenegro R, Stephens C. Indigenous peoples' health in Latin America and the Caribbean. *Lancet* 2006; 367: 1859–69.
- 88 Robins S, Madzudzo E, Brenzinger M. An assessment of the status of the San in South Africa, Angola, Zambia and Zimbabwe Regional Assessment of the Status of the San in Southern Africa Windhoek: Legal Assistance Centre, 2001.
- 89 Macdonald D, Molamu L. From pleasure to pain: a social history of Baswara alcohol use in Botswana. In: Peele S, Grant M, eds. Alcohol and pleasure: A health perspective. Philadelphia: Brunner/Mazel, 1999: 1–7.
- 90 Phororo H, Endjala R, Haimbodi N, Guthrie T. Namibia. In: Guthrie T, Hickey A, eds. Funding the fight: budgeting for HIV/AIDS in developing countries. Cape Town: IDASA, 2004.
- 91 el Obeid S, Mendelsohn J, Lejars M, Forster N, Brule G. Health in Namibia: progress and challenges. Windhoek Raison, 2001.
- 92 UNAIDS U, WHO. Botswana: Epidemiological fact sheets on HIV/AIDS and sexually transmitted infections, 2004.
- 93 Kali Mercier, Survival International (personal communication, 2005).
- 94 Corpuz VT. In Larger Freedom: The Challenge of Partnerships from Indigenous Peoples' Perspectives Presented at the 58th Annual DPI/NGO Conference, United Nations, New York, Sept 7–9, 2005.
- 95 United Nations. Advanced Unedited Draft Programme of Action for the Second International Decade of the World's Indigenous People (Sixtieth session, Item 70). Geneva: UN, 2005.
- 96 Marmot M. Social determinants of health inequalities. *Lancet* 2005; 365: 1099–1104.
- 97 Banda F, Chinkin C. Gender, Minorities and Indigenous People. London: MRG, 2004.
- 98 Willis R, Stephens C, Nettleton C. The Right to Health of Indigenous Peoples, Report of a conference held at the London School of Hygiene and Tropical Medicine, December 2004. The right to health of Indigenous peoples: 2004, London.
- 99 United Nations High Commissioner for Human Rights. Draft United Nations Declaration on the Right of Indigenous Peoples: UNHCHR, 1994.