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Childhood disability in Turkana Kenya: Understanding how caregivers cope in a complex humanitarian setting

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Abstract

**Background:** Although the consequences of disability are magnified in humanitarian contexts, research into the difficulties of caring for children with a disability in such settings has received limited attention. Methods: Based on in-depth interviews with 31 families, key-informants and focus group discussions in Turkana, Kenya, this paper explores the lives of families caring for children with a range of impairments (hearing, vision, physical and intellectual) in a complex humanitarian context characterised by drought, flooding, armed conflict, poverty and historical marginalisation. Results: The challenging environmental and social conditions of Turkana magnified not only the impact of impairment on children, but also the burden of caregiving. The remoteness of Turkana, along with the paucity and fragmentation of health, rehabilitation and social services, posed major challenges and created opportunity costs for families. Disability-related stigma isolated mothers of children with disabilities, especially, increasing their burden of care and further limiting their access to services and humanitarian programmes. In a context where social systems are already stressed, the combination of these factors compounded the vulnerabilities faced by children with disabilities and their families. Conclusion: The needs of children with disabilities and their caregivers in Turkana are not being met by either community social support systems or humanitarian aid programmes. There is an urgent need to mainstream disability into Turkana services and programmes.
Background

Disability in humanitarian crises
The World Report on Disability estimates that 15% of the World’s population experience some form of disability, and an estimated 93 million children aged 0-14 years are living with a moderate or severe disability. The majority are in low and middle income countries (LMICs) (World Health Organization, 2011). The same report highlights that conflict and natural disasters can both cause disabilities and make people with existing disabilities even more vulnerable. Humanitarian crises are social and material environments which may exacerbate the vulnerability of people with disabilities because of a break-down in social services (medical and education), a reduction in income support for food and other basic necessities, diminished mobility and opportunities for migration, and the loss of carers (Kett and van Ommeren, 2009, Reilly, 2010). Article 11 of the Convention on the Rights of Persons with Disabilities emphasizes measures to protect the safety of people with disabilities during armed conflict and natural disasters (UN, 2006). Additionally, a number of guidelines exist to support the mainstreaming of disability in humanitarian interventions (Handicap International, 2005, SPHERE, 2011). Within a low resource context, community based rehabilitation (CBR) is also an important recommended strategy for rehabilitation, poverty reduction and the social inclusion of people with disabilities that is relevant to humanitarian contexts. This approach recognises the central role of the family and their communities in reducing disability, as well as relevant government and non-governmental organisations (World Health Organisation, 2010).

Humanitarian crises such as those cause by armed conflict and natural disaster inevitably create new social processes, not all of which lead to harm. Crises may reinforce a community’s sense of identity and systems of coping (Hodgson, 2000), or prompt exposure to global humanitarianism and associated liberal systems and concepts (Grabska, 2014). Indeed, people with disabilities in some highly-managed settings (such as refugee camps) experience access to humanitarian programming as liberating, not only because such programmes meet every day accessibility needs such as by providing latrines that are easy to use, but also by helping transform displaced populations’ attitudes towards disability (Mirza, 2013). As in non-crisis affected contexts, disabled children and their families in humanitarian and post-humanitarian settings may face multiple barriers to social inclusion. These include increased caregiving duties which prevent participation in economic activities, and poor informational access to or discriminatory exclusion from services that mitigate vulnerabilities (Miles and Medi, 1994, Ngo et al., 2012). The needs for informal care and community-based rehabilitation in crisis and post-crisis settings also likely impact women more than men (Berghs, 2015). There is, however, a need for better understanding of the lived experiences of adults and children with disabilities during humanitarian crises; particularly little is known about how families cope to care for children with disabilities in such settings.

Coping in a complex humanitarian context in Turkana
Turkana County, in north-west Kenya, has been classified at various points over the last several decades as suffering from a complex humanitarian crisis due to multiple causes of vulnerability which compound each other. The climate is arid and suited for livestock production which supports 60% of the population (Boulton, 2012), but is subject to periodic drought. Rains are
erratic with frequent total failure but they also produce flash flooding. Within Kenya, Turkana is the largest county geographically and one of the most historically under-developed; people who live there suffer from some of the poorest schools, roads and health services in the country, a situation which long-standing (but often poorly-funded) government and humanitarian interventions have been unable to reverse (Broch-Due and Sanders, 1999). Health and rehabilitation services are limited to the county hospital and a small, fragmented network of faith-based clinics and hospitals.

Poverty levels are 20% above the national average with per-capita livestock wealth declining and dependence on food aid increasing (Kenya National Bureau of Statistics, 2014). The large majority (78-94%) of households in Turkana experience problems accessing food (Ochola, 2011). In recent years, up to 15% of the population of Turkana has been served by United Nations ‘food assistance for assets’ programmes (food in return for work on projects that increase a community’s resiliency) and the general acute malnutrition rate among children has hovered at around 15%, the threshold between a ‘serious’ and ‘critical’ nutritional emergency (Office for the Coordination of Humanitarian Affairs, 2013). With the proliferation of small arms seen over the last several decades, livestock raiding also contributes to famine, inter-communal violence and displacement and harms social systems for coping (Hendrickson et al., 1998). Consequently, in Turkana, as in other pastoralist areas of Africa, low-level, chronic violence and the politics of marginalization reproduce one another (Pike et al., 2010).

In such a setting, pastoral mobility, including crisis-induced displacement, largely configures Turkana peoples’ access to food, social services and income (Pike et al., 2010). Turkana social institutions (such as the maintenance of land rights and systems of livestock redistribution during crisis) remain key for people to manage the environmental precarity of living here (McCabe, 1990) but they tend to exclude families living in towns, making them more dependent on cash economies or aid (Broch-Due and Sanders, 1999). As carers, women play a key role in upholding these social institutions which contribute to community resilience. A good example of the instrumentality of pastoralist women in northern Kenya is in the area of nutrition (Pike et al., 2010). Access to milk from livestock is a particularly important determinant of nutrition and therefore health. When crisis forces men to move with cattle, this puts women and children at a nutritional disadvantage. To counter such vulnerability, pastoralist women therefore practice nutritional buffering of children’s diet in an age-related pattern of communal moral responsibility: older women buffer younger mothers and all women forego food when children are hungry. Women in the Turkana are also more likely to be in a polygamous union (21%) compared with the national average of 10.2% Kenyan average (Kenya National Bureau of statistics, 2010), and crisis can put a particular strain on the resources of polygamous families, with family breakdown (Wawire, 2003).

The results of a recent study of childhood disability and malnutrition in Turkana is therefore troubling. It found that children with disabilities are more likely to be malnourished than their neighbours and even their siblings (Kuper et al., 2015). This could reflect difficulties that carers of children with disabilities have in accessing traditional social support systems and/or humanitarian interventions. As has been shown in post-conflict Mozambique (Miles and Medi, 1994), for families already stressed from the effects of war, poverty and drought, having a disabled child can exacerbate an already desperate situation, with the family invariably becoming poorer. In this study, we present a picture of the lived experiences of caregivers of children with disabilities living in an ongoing, complex humanitarian crisis in Turkana, Kenya. We use the World Health Organisation’s International Classification of Functioning, Disability and Health (ICF), a bio-psycho-social model of disability that synthesises a medical and social model of disability. This framework outlines the dynamic relationship between the impairment or health
condition with activity limitations and participation restrictions, and the mediating role that environmental and personal factors can play (World Health Organisation, 2001). We pay particular attention to caregivers’ daily needs, priorities and coping strategies as well as the social processes which permit or limit opportunities for them to access services and participate in community life.

**Methods**

**Study setting and sample**
This research was conducted in September 2012 and May 2013 in Lodwar, the county’s largest town, and surrounding areas of Turkana Central district (now a sub-county) in collaboration with the Kenya Red Cross Society (KRCS). An initial scoping visit was undertaken to map disability-related services and aid programmes in Turkana county (September 2012). Turkana Central district was selected for this study and for a later survey of childhood disability prevalence for several criteria: it supports a range of livelihood types (pastoralism, fishing, agriculture, small businesses), was relatively safe, and KRCS was present in the district to facilitate access to families caring for children with disabilities. The survey, conducted Jul-Aug 2013, estimated a minimum prevalence of moderate to severe disability in children at 0.75% (0.66–0.83%), with the true prevalence likely to be much higher (Kuper et al., 2015). Physical impairment such as cerebral palsy, rickets and muscular dystrophy was the most prevalent form of disability followed by epilepsy, visual, hearing and intellectual impairment; congenital causes of the disability were most common. The majority of children (85%) had never received any form of rehabilitative service such as therapy/exercises, assistive devices, surgery or occupational advice.

For our qualitative interviews, a list of children with disabilities living in the Turkana district aged 10 years and younger was collated from existing KRCS disability project data; additional information on demographics and the type of impairment was provided by KRCS CBR workers and local community health workers. Children were purposively sampled to cover a range of ages (1-5 years and 6-10 years), genders and impairments (physical, visual, hearing, and intellectual). As the research was conducted during the rainy season some adjustment had to be made to the final choice of villages to take into account accessibility for the survey team and resulted in the exclusion of the most isolated and inaccessible villages. Cattle-rustling and tribal conflicts also prevented access to some districts at this time.

Caregivers were interviewed from 31 households, providing information on a total of 36 children with disabilities, of which 25 were boys and 11 girls. See

Eight children were in school. Of the caregivers interviewed, 19 were mothers, three grandmothers, two grandmothers & mothers (combined), two siblings, four fathers, and one mother and father (combined). Only the men did not self-identify as the primary caregiver. A quarter of the families interviewed had recently migrated: two were pastoralists who regularly moved with livestock, five were displaced by flooding, drought or cattle raiding. Families in the sample were drawn from 23 villages, in three divisions, four locations and seven sub-locations.

To contextualise information collected from caregiver interviews, interviews were conducted with 16 key informants including village elders, hospital and clinic based staff, community health workers and teachers. Furthermore, two focus groups were conducted in two sites (where unplanned groups of caregivers had congregated when they heard about the research), and individuals were selected from these groups for one-to one interviews.
Data collection and analysis

Interviews were semi-structured and conducted by two researchers (MZ, VN) through translation between Turkana or Kiswahili and English. At the end of each day the project team met to review all interviews, to discuss and agree on key emerging issues, and to identify any gaps that necessitated further exploration and additional questions in follow up interviews. Detailed notes were taken during all interviews, and all interviews were also recorded and transcribed into English.

Most interviews with caregivers took place at the child’s home, unless roads were impassable, in which case interviews were undertaken at a nearby health centre. Given that most family dwellings were very small, it was often impossible to have privacy for the one-to-one interviews, and some interviews were inevitably conducted with other family members present. Interviews covered the following areas: beliefs and attitudes about the child’s condition, the impact of caring for a child with a disability, nutrition and feeding practices, and factors which impacted upon children’s access to services (health, education and humanitarian programmes including nutrition programmes). Interviews with key informants and focus group discussions focused on the availability of services, referral procedures and barriers to inclusion of children with disabilities in social systems.

Both interviewers separately identified a list of key themes and sub-themes through an iterative process, and these were then discussed, refined and cross checked for consistency to provide an overall thematic coding framework for systematic analysis by MZ after fieldwork, facilitated by NVivo 10 software (Green and Thorogood, 2009).

Ethics

This project received ethical approval from Moi Teaching Hospital in Kenya, and from the London School of Hygiene and Tropical Medicine in the United Kingdom. Families were contacted and visited by local KRCS volunteers in advance of the interviews to provide clear verbal and written information about the research, and signed consent was obtained for all interviews. One component of the ethics protocol was for referrals to be supported by the KRCS team following the interviews. Quotes from respondents have been anonymised to protect their privacy.

Findings

The gendered impact of caregiving and livelihoods

In a context of widespread poverty, scarcity of services and poor infrastructure, it was evident from all interviews that having a child with a disability impacted the whole family, generating specific challenges related to caring, income generation and the psycho-social health of caregivers. Impacts were most notable on women, who are the primary caregivers in families in Turkana. Mothers, grandmothers and female siblings typically cared for the children in our sample. In the larger survey, children with disabilities were significantly more likely than neighbour controls to have a female head of household, and half of households we interviewed were single parent, female-headed. Reasons given for a father’s absence, or for spending a long period away from the home, commonly involved stigma related to the child’s disability, with very little, if any, family
support provided by the father following the birth of a disabled child. These reactions compounded the gendered burden of caregiving and the poverty of the family.

Caregiving arrangements for ‘P’ are illustrative of the complexity of these issues. P is a ten-year-old boy who was intellectually impaired and had epilepsy; he lived with his mother and six siblings and his oldest sister had been taken out of school to help care for P. His illness began when he was about six years old; his family sought treatment for him at the local health centre and spent a considerable amount of money on seeking a cure from a traditional healer. His father subsequently left the family and stopped providing any support. The family reported they were not in receipt of any community or humanitarian support and the psycho-social impact of this on P’s mother was clear:

*I think someone bewitched the father of the child, and then the spell went to the child…They told me [at the health centre] to take the child home and seek the help of the traditional healer…my husband and I spent a lot of money …When my son’s condition worsened I felt desperate, I lost hope, and I know there is nothing I can do to heal my son.*

The impact of increased caregiving responsibilities on being able to pursue livelihood activities was a key issue for families, and particularly in, but not exclusive to, female-headed households. A mother from another single female-headed household described the frustration she felt of balancing her caregiving roles with income generating activities:

*I am not able to do any work here all day. I have to carry the child all through the day. I am not able to make as many mats as other women make. I only make one mat every month while other women make even 5 mats. Sometimes I am not able to make any mats at all. (Mother of 6-year-old boy with cerebral palsy)*

The need to work often resulted in a child with a disability being left on their own for several hours during the day. One grandmother in a peri-urban context described how her grandson was often left on his own under a tree. The child had severe cerebral palsy and was immobile, without even an assistive device to sit on, and without support from close neighbours: ‘When all the children have gone to school he is left alone. The mother might be in town and I might be collecting firewood or on the farm.’

For displaced families, the absence of support from extended family also accentuated the challenge of combining caregiving and livelihoods. One mother of an eight-year-old boy who had Downs Syndrome and was visually impaired described moving to a new village after her husband had been killed in a livestock raid. Although neighbours offered occasional support, working was difficult with no family nearby to help:

*He is with me throughout the day. It is so difficult. …when I have to work I sometimes lock him in the compound, and sometimes I take him with me [to collect firewood]. When he is locked inside alone he runs around and he cries. Sometimes neighbours will come and comfort him and he will sleep.*

**Beliefs about the causes of disability**

Beliefs and attitudes linking disability and misfortune influenced parents’ decisions to engage with services and seek treatment, as well as the type of treatment sought. Caregivers had very low levels of biomedical understanding about their child’s impairment and treatment was most commonly sought from traditional healers. In the small number of instances where families had visited a hospital or clinic, there was still considerable confusion about their child’s condition, the cause and options for treatment.
While a very small group of parents provided a biomedical rationale for the disability, some caregivers suspected witchcraft as in the case of P above; ‘God’s will’ and the intervention of ancestors were also common justifications. Moreover, many families held pluralistic views on the causes of the disability, whereby many possible reasons were considered simultaneously. Non-biomedical explanations cast disability as a misfortune typically interpreted in the context of problematic interpersonal relationships germane to the socio-politics of the Turkana region, as in the following explanation:

Some say that it is God who is annoyed with them. Others say that their forefathers were disabled and it is a replica of that [Interviewer: Can you explain more?] In the past people went for raid and in the process of raiding they might have killed a disabled person, and so God now makes sure that they have got that disability (Mother of a 7-year-old girl with a hearing impairment)

As shown by others, intervention by ancestors, God and witches/wizards is a common rationale for childhood illness and disability in Turkana (Shelley, 1985).

In communities close to Lake Turkana, poor natural environmental conditions such as salty water or soil, were also commonly believed capable of causing disability. Yet despite some carers’ associations between health problems and the lake, the lake remained an essential source of livelihood. Disability therefore appeared to be interpreted as an unfortunate trade-off and inevitability of living near the lake, and commonly no diagnosis or treatment was sought. As one single parent mother explained, in relation to her daughter’s condition:

People say the salty water from the lake and the sandy soil makes the bones weak, especially because it is difficult to walk in sand. Some people in the community call it ‘agule’ [polio], others call it ‘lotoro’ – a condition caused by the water in the environment and soil. … I have been considering taking her to the hospital but I have no faith that anything can be done medically about this disease; it is caused by the environment (Mother, child of 5 years with a physical impairment)

**Stigma and the absence of support**

Stigma and shame associated with having a child with a disability was pervasive and influenced how children were cared for, the wider support available from the community, and acted as a key barrier to accessing services and aid.

One mother, whose son of eight years was completely blind and spent most of his day inside the house, illustrated this profoundly, saying ‘I do not think ‘S’ is alive. I am just taking care of him until his final death.’

Children with disabilities were seen as a burden because they could not help with household chores or work with the livestock, all of which were important roles in this rural and pastoralist setting:

*I do not think that this child is of benefit to the family in any way. She just remains to be counted as part of my household. She can’t get married or help with household chores.* (Mother of a 6-year-old girl with a physical and intellectual impairment)

Stigma also prevented children from accessing services. One grandmother explained how she had never taken her ten-year old grandchild with multiple disabilities out of the compound to seek help or to register him for any type of aid project: ‘My child has not been part of any food programme, but we haven’t exposed him to any of these programmes. [Interviewer: Why?] I was ashamed to take him out.’
While some parents commented that their family or community did not overtly stigmatise their child, and some benefited from material support, they nevertheless felt shame in the absence of family or community social support. For instance, one single mother highlighted her pain from the fact that her sister refused to carry her child:

> I feel bad having to carry the child around by myself and no one is there to help me. My sister does not want to help me carry my child. She provides for us and helps me a lot with money and food. But she doesn’t want to associate with my child because he is disabled. She does not carry him at all. That is not all; his father refused to take responsibility over his child because the child is disabled. (Mother, with son of 3 years with cerebral palsy)

Key informants talked about the absence of children with disabilities in their services because the children are hidden. One village chief, discussing this point, argued that while disabled children in his village were not necessarily hidden, they were largely kept at home in the absence of support from formal social services: ‘I was surprised when Kenya Red Cross Society brought all the disabled together in one point. I was surprised how many I saw. They are not being hidden, but they are kept at home unless they know that something can be done with their situation’.

**Caregiving in an arid rural environment**

The limited mobility of children was among the greatest challenges for carers in the arid Turkana environment where carers must carry disabled children while covering long distances to collect firewood and water. The absence of assistive devices, as well as the difficult terrain for a wheelchair, are additional challenges. Toileting and the personal care of children, particularly when they were incontinent, was also a major problem given the absence of latrines and huge difficulties around access to water. This was highlighted by key informants and caregivers:

> I am confined to caring for him all day ... You know, once somebody is lame or disabled and the family has no way to solve the problem, it becomes a desperate situation... I am the one who cleans him up when he passes stool. I also take him out to pass his stool. This is very stressful but I have no way out. (Mother of son of 10 years with epilepsy and intellectual impairment)

In one village, this problem was exacerbated when the communal pump was damaged following flash flooding and the mother described needing to resort to a four-hour round trip to dig a shallow well at the nearest river bed. This is of course a challenge for all families but it was magnified for her when carrying an older, heavy child with a disability. While some carers elected to leave children behind during water collection, others worried about the consequences of doing so, as one mother of a daughter with multiple disabilities explained:

> For me being with her most of the day is very difficult for me to bear. But I fear that if I leave her alone she may fall in the fire and this thought traumatises me, so I am forced to stay and care for her all day.

Long distances to access healthcare was also a particular challenge for a mother recently displaced by flooding to a remote area. Although her eight-year-old daughter with epilepsy and an intellectual impairment was ill almost every month, it was rare that she could leave the rest of her duties to carry her daughter the four km to the nearest dispensary.

The difficult environmental conditions for all families in Turkana were furthermore raised by carers as a reason why other families may be reluctant to share the burden of caring. As described by this father of a boy with hydrocephalus and polio, ‘Some community members support the children whenever they can ... The majority, however, do not support them at all. In the community everyone fends for himself.’
The challenges of accessing services

There were few projects in Turkana designed to serve people with disabilities (Office for the Coordination of Humanitarian Affairs, 2013) and limited government or faith-based rehabilitation services even within the main county hospital, making it difficult for families to access assistive devices. This is within a wider context of more limited health services in Turkana, for example 19 nurses per 100,000 population compared to 55 nationally (Government of Kenya, 2014). With the exception of eye health services, key informants highlighted that referral processes for treatment or rehabilitation of impairments were complex or absent in Turkana. There was a lack of information about the limited rehabilitation services which were available, and a wider lack of knowledge about disability amongst community-level health care professionals (Merlin, July 2012). The large distances, the remoteness of villages, and very limited transport meant there were very substantial opportunity costs, in the form of time lost away from work, for families who chose to seek out rehabilitation services.

We had to stay in Lokichar for a month for the child to be assessed and given treatment... we are business people; our long stay in Lokichar made our business not flourish. We also lost time and money in seeking treatment. (Father, daughter with a physical disability)

Almost every caregiver identified costs as a barrier to accessing health care, and sometimes important assets such as livestock were sold off to pay for ongoing treatment or the constant quest for a ‘cure’ for the disability, which included use of traditional healers. The impact on families of paying for services could be substantial because in many cases the caregiver commonly described their child with a disability as being more frequently ill, compared to siblings:

We are unable to save any money for the future because almost everything is spent on the treatment of our child. … You know when the child is well one can afford to save money for other things and for the children’s education. (Father of 3-year-old boy with a physical impairment)

In some families, the lack of income precluded seeking any health services, as explained by one single mother whose son was frequently ill: ‘If he is ill, I boil water and bathe him in water, but I have no money to take him to the health centre.’

In terms of humanitarian aid programmes, there was also confusion and perceptions of unfairness around accessing nutrition programmes among parents – a key need given that most families reported difficulties in providing one meal a day for all family members. School feeding programmes are a common nutrition intervention in Turkana, for example, but most children with disabilities we heard about were not in school and were thus not able to benefit in the same way as their siblings. Others were too young for school and yet were also not accessing food supplementation programmes, as one mother explained:

I have not received any help so far. We are still waiting for aid. My sister’s children however … [receive] maize and beans in school. (Mother of a 3-year-old boy with cerebral palsy)

Likewise, parents faced major practical challenges accessing ‘food assistance for assets’ programmes and food distributions, as the following quotes illustrate:

There is a food-for-work programme within the area but I’m not a beneficiary. There is no way I can leave the child and go to work. (Mother of girl of 8 years with cerebral palsy)

I used to carry my child across the lake … where distribution of food used to take place. I would pay for a bicycle to transport the food to the lake shore, then put it on a boat and cross over. It is much easier for parents without children with special needs. For instance, my sister used to carry the food
Discussion

This research sought to explore the lived experiences of families who care for children with disabilities in the complex humanitarian environment of Turkana, with the overall aim of improving their inclusion in programming and policy. As described by the World Health Organisation’s model of disability (World Health Organisation, 2001), this study highlights how the multi-faceted humanitarian context in Turkana magnifies the disabling impact of childrens’ impairment on them, and also on the caregiver burden, through a variety of environmental, social and cultural factors which compound the vulnerability of the family. Our study also confirms many of the challenges faced by people with disabilities cited in the small but growing body of literature about disability in humanitarian contexts, which include the disruption of social support networks and dearth of supportive services (Tomlinson and Abdi, 2003, Scherrer, 2015, Oosterhoff and Kett, 2014, Lange, 2015).

Our study paints an often harrowing picture of the daily lives of children with disabilities and their families. Arguably many families in Turkana face extreme poverty, and access to basic health care for everyone is a challenge in pastoralist zones (Pike et al., 2010, Sheik-Mohamed and Velema, 1999). Poor roads, large distances, few services and limited transport affect everyone’s access to services, however, this problem is magnified for children with disabilities, who often need to be physically carried long distances, or complex transport arrangements need to be made. Our findings mirror those of an Australian study which describe the mobility restrictions of disability on top of the difficulties for dispersed populations to access services a ‘double disadvantage’ (Gething, 1997). In the drought-stricken environment of Turkana, water scarcity is a vital issue for everyone (London School of Hygiene and Tropical Medicine, 2013), but the challenges are augmented in a household with a child with a disability who may need to be carried for water collection, and may have additional self-care needs. Reviews of water and sanitation issues for persons with disabilities highlight the critical importance of these issues, yet they are often overlooked in programmes which are not disability inclusive (Groce et al., 2011, Danquah, 2014).

It is well recognised that family and community support networks are essential in the care of children with disabilities in many low resource settings, in particular where there is a paucity of services (World Health Organization, 2011), and yet in emergency contexts, family and social networks are often weakened or destroyed (Oosterhoff and Kett, 2014). Our findings emphasise the particular isolation of caregivers in this disability context and the limitations of community support mechanisms. Fathers were absent in more than half of families, for example, and the stigma of having a disabled child was offered as a common explanation. When even women’s sisters would not touch a child with a disability to share the burden of carrying them during chores, this particularly heightened female caregivers’ sense of social isolation. Although we could not investigate it in-depth, social isolation of women caregivers could also affect other crisis-related coping mechanisms, such as nutritional buffering. Stigma is a complex phenomenon often linked to the cultural context and associating disability with witchcraft or supernatural intervention is pervasive in many contexts, including in Turkana (World Health Organization, 2011, Van Brakel, 2014, Shelley, 1985). In the specific region of Lake Turkana a recent environmental study highlighted reportedly high levels of skeletal ‘deformities’ linked to changing salinity levels, and a persistent local view that the deformation was a curse (Avery, 2013). This behaviour which normalises a state of ill health and long-term suffering due to structural inequalities can also be common among marginalised groups in the region (Sundal, 2009).
However, there are few studies which have also explored the specific impact of stigma on caregivers and caregiving. In our study, such stigma limited not only caregivers’ access to support from extended families or communities, but also their access to government, NGO services and humanitarian programmes. This was because local social support is often needed to offset the opportunity costs involved in seeking formal services and programmes, such as providing care for children left behind whilst services are accessed or the costs of transportation when walking while carrying a heavy child is impossible.

This isolation of caregivers, in turn, impacts on children’s access to healthcare and carers’ access to livelihood opportunities. Several studies have indicated that children with disabilities in LMIC settings are more likely to have problems with serious illnesses or malnutrition (Yousafzai et al., 2003, Tompsett et al., 1999, Groce et al., 2013). Our qualitative study corroborates the findings of the prevalence survey in Turkana which showed that children with disabilities were more malnourished but at the same time less likely to access feeding programmes (Kuper et al., 2015). Families in this setting also appear to face major challenges meeting the healthcare needs of their children with disabilities; limited service availability, a lack of information about rehabilitation service options, and complex referral processes exacerbates this. The challenges of increased caregiving responsibilities on livelihoods in the context of HIV has been extensively described in the literature (Opiyo et al., 2008), but there is limited comparable evidence within the disability literature, and what little there is, is typically limited to studies of adults with disabilities. In humanitarian contexts, food-for-work programmes are intended to benefit the whole community, and particularly attempt to target the most vulnerable, and yet our study indicates that caregivers of children with disabilities are often excluded from such programmes.

In conclusion, a multiplicity of factors compound the vulnerability of children with disabilities and their caregivers in the complex humanitarian context of Turkana. Our interviews illustrate that children and their caregivers in Turkana are falling through the safety nets of both community social support systems as well as humanitarian aid programmes established to assist the most vulnerable. This emphasises the urgent need for improved mainstreaming of disability, as well as targeted approaches for inclusion, for example, in terms of how these children can be included in nutrition and food assistance programmes. The intersectionality of gender and disability also needs some consideration given the gendered nature of caregiving. For example, livelihoods programmes need to be more gender-sensitive and more actively inclusive of families with children with a disability who may be ‘invisible’ to authorities, health and humanitarian workers in this setting. As called for by others, disability must be seen as a ‘mobile cross-cutting issue’ that can contribute to social injustice, and should not be treated as a narrow ‘specialist medical issue’ (Berghs, 2015).
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Competing interests
The authors declare that they have no financial or personal relationships which may have inappropriately influenced them in writing this article.

Authors’ contributions
- M.Z. Project lead, responsible for research design, conducted interviews and lead on analysis and writing of manuscript
- V.N. Field research coordinator, conducted interviews, and commented on manuscript
- V.M. Commented on manuscript & design
- J.K Commented on manuscript
- H.R: LSHTM Contributed to manuscript
- JP, Research Fellow LSHTM, Contributed significantly to the writing of the article

References


WAWIRE, V. K. 2003. Gender and the social and economic impact of drought on the residents of Turkana District in Kenya.


# Tables & Figures

**TABLE 1:** Sample of children (n=36)

<table>
<thead>
<tr>
<th>Child Disability</th>
<th>Male</th>
<th>Female</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical</td>
<td>8</td>
<td>5</td>
<td>13</td>
</tr>
<tr>
<td>Sensory (hearing or visual)</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Intellectual</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Multiple</td>
<td>13</td>
<td>4</td>
<td>17</td>
</tr>
</tbody>
</table>