

# HOW POVERTY SHAPES CARING FOR A DISABLED CHILD: A NARRATIVE LITERATURE REVIEW

ELISE J. VAN DER MARK<sup>1,2\*</sup>, INA CONRADIE<sup>2</sup>, CHRISTINE W.M. DEDDING<sup>1</sup> and  
JACQUELINE E.W. BROERSE<sup>1</sup>

<sup>1</sup>*Athena Institute, VU University Amsterdam, Amsterdam, The Netherlands*

<sup>2</sup>*Institute for Social Development, University of the Western Cape, Cape Town, South Africa*

---

**Abstract:** Despite ample research on the relationship between disability and poverty, the experiences of parents of disabled children are herein generally overlooked. We argue that an understanding of how poverty shapes caring for a disabled child is crucial for disability inclusive development. Therefore, this paper narratively reviews literature on carers of disabled children from various contexts published between 1995 and 2015. It uncovers a significant knowledge gap on the impact of poverty despite slowly emerging evidence on how political, cultural and socioeconomic exclusion stifles parents to enhance their families' wellbeing and possibly reap the benefits of development policies. Implications for future research are addressed. Copyright © 2017 John Wiley & Sons, Ltd.

**Keywords:** parents; disability; child; resource-poor; childcare; multidimensional poverty

---

## 1 INTRODUCTION

Parents of disabled children face myriads of practical and emotional challenges. On a daily basis, they need to juggle the child's physical, medical and emotional needs with their personal and social obligations and responsibilities; expectations and requirements of the outside world; and their own physical and mental wellbeing (Kuhlthau, 2012). In order to support these parents and to understand the challenges they face, parents' lives have been and still are a growing subject of research (Kimura & Yamazaki, 2013; McConnell, Savage, Sobsey & Uditsky, 2015; Yagmurlu, Yavuz & Sen, 2015).

---

\*Correspondence to: Elise J. van der Mark, Institute for Social Development, University of the Western Cape, Cape Town, South Africa.

E-mail: elise.vandermark@gmail.com

As other authors have pointed out before (Huiracocha *et al.*, 2015; McConkey *et al.*, 2008; H. J. Park & Chung, 2015; Wijesinghe *et al.*, 2015), the majority of the disability and care research<sup>1</sup> has been conducted in affluent settings, mostly Western countries. Yet, poor socioeconomic conditions and a lack of resources (a resource-poor context) are likely to influence the experiences of carers<sup>2</sup> of a disabled child,<sup>3</sup> as caregiving takes place in a societal context that influences the family and their possibilities to attain wellbeing (Bronfenbrenner, 1986; Chambers, 1995; Deneulin & Shahani, 2009; Pouw & Gilmore, 2012). Other studies on carers of orphans of the HIV pandemic and of people living with HIV/AIDS provide evidence on the influence of a resource-poor context on caring (Lindsey, Hirschfeld & Tlou, 2003; Ice, Yogo, Heh & Juma, 2010; Evans & Atim, 2011; Hunter, 2012). Based on a Kenyan study, for example, Ice *et al.* suggest ‘the effect of caregiving as a stressor may be small relative to the stressor of low socioeconomic status, general lack of access to care, a lifetime exposure to numerous infectious diseases, and generally poor nutrition’ (2010: 17). This may be similarly true for carers of a disabled child living in a resource-poor context.

Understanding this impact of poverty on parenting a disabled child, we argue, is essential for disability mainstreaming in development. Disability mainstreaming or disability-inclusive development is based on the premise that disability justice should be an integral part of socioeconomic development efforts and should not be seen as peripheral to society (see, e.g. Power, 2001; UN Enable, 2003; MacLachlan & Swartz, 2009). The well-documented bidirectional link between disability and poverty (Elwan, 1999; Yeo & Moore, 2003; Loeb *et al.*, 2008; Eide & Ingstad, 2011; Mitra, Posarac & Vick, 2013) lies at the foundation of this argument. Disability and poverty issues are seen as intertwined and need to be handled accordingly. Instead of addressing the needs of children and people with disabilities only through social welfare structures, it is suggested that they need to be included in all poverty reduction and (social) development strategies (UN, 2007; World Bank, 2015). ‘Disability issues are in fact core to the reaching of development goals’ (Swartz, 2009: 99). For example, accomplishing the sustainable development goals on access to education requires specific strategies for children with disabilities. Research on the relationship between disability and poverty has been vitally important in the understanding and implementation of such disability-inclusive strategies (e.g. Palmer, 2011; Mitra *et al.*, 2013). However, it generally does not include the experiences of parents of disabled children.

We argue that for full disability-inclusive development, not only the realities of children and people with disabilities but also the experiences and practices of the carers living in poverty need to be understood. For one, children with disabilities (as all children) depend on their carers for their wellbeing (Kuhlthau, 2012). Two, for many children, the family is the ‘principal context in which human development takes place’ (Bronfenbrenner, 1986: 723). A disabled child influences a carer and her capabilities,

<sup>1</sup>The phrase disability and care literature or research refers only to studies focussing specifically on the experiences and practices of carers of children with disabilities.

<sup>2</sup>The words ‘parent’ and ‘carer’ are used interchangeably in this article. They both refer to either the biological parent or the primary carer of a disabled child. In addition, as research indicates the vast majority of carers of disabled children are women, and most research respondents in the presented literature are female, this article will use feminine pronouns throughout for readability purposes.

<sup>3</sup>Many terms have been used in history to describe disabled people, and not without controversy (see, e.g. Dajani, 2001; Mackelprang, 2010). This literature review on the impact of poverty supports the social model of disability that views disability as a result of societal factors rather than of impairment. Therefore, we choose to use the social model terminology (‘disabled person/child’) throughout this article.

both positively and negatively. Vice versa, a carer impacts a child's development, which can similarly be positive or negative. Three, focussing on the child in formulating development policies omits carers' personal or socioeconomic constraints for care. For example, a public policy on inclusive education for disabled children ignores the financial or public transport constraints carers face to access schools. In line with this argument, this (explorative) narrative literature review<sup>4</sup> aims at gaining a theoretical understanding of how living in a resource-poor context shapes parents' experiences of caring for a disabled child.

## 2 METHODOLOGY

No other literature review, to our knowledge, has attempted to analyse and synthesize current knowledge on how poverty influences carers of disabled children specifically. As this article thus serves as a first of its kind, a qualitative narrative review was chosen as methodology as it provides for a preliminary broad perspective on the topic (B. N. Green, Johnson & Adams, 2006).

Studies on disability and care were included if they provided either original research or a literature review on specifically the practices and/or experiences of parents of disabled children. To identify studies from a resource-poor context, we subscribed to the notion of poverty being multidimensional (Sen, 1992; Alkire, 2011). Nevertheless, we also included studies by using unidimensional measurements of poverty, as they shed light on at least one aspect of the multidimensional complexity of poverty. Studies were thus considered as 'resource-poor' if they had a sample of which at least 50 per cent were carers with a low SES, explicitly discussed the role of poverty on carers or described the study setting as impoverished or disadvantaged. A very limited availability of disability and care studies from a resource-poor context made us broaden our search towards disability and care literature from any context in order to make comparisons between settings. As there is an abundance of studies on parents of disabled children in general, we narrowed the inclusion of these studies down to a set number that would be sufficient for comparison. Inclusion was based on obtaining a wide representation of literature regarding country of research, methodology (qualitative or quantitative) and sampling (fathers and/or mothers and medical disability type). Intervention impact and effectiveness studies were not included; neither were studies pertaining to theory and methodology.

Our search focussed on electronically available English literature from 1990 up until August 2015. Searches were performed in online bibliographic databases and in university library search engines (Table 1). Grey literature and web reports were retrieved by using Google and international institution websites. Hand searches of reference lists were executed. In addition, because of the research question involving the concept of poverty, manual searching was performed in 10 influential development journals (Table 1). A variety of search words were used related to care, disabled children and poverty including the following: care, caring, caregiv\*, carer\*, mother\*, parent\*, child\*, experience\*, well-being, wellbeing, disabled, disabilit\*, poverty, poor, resource-poor, disadvantage\*, low-income, developing countr\*, culture\* and context\*.

---

<sup>4</sup>This literature review is part of a cross-sectional study with mothers of disabled children in a township in South Africa.

Table 1. Literature search sources

Source	Particulars
Online bibliographic databases	1 Google Scholar 2 Science Direct 3 JSTOR 4 Taylor and Francis Online 5 Wiley Online Library 6 PubMed
University library search engines	1 University of the Western Cape, South Africa 2 VU University, the Netherlands 3 University of Amsterdam, the Netherlands
International institution web sites	1 United Nations 2 World Bank 3 UNICEF 4 World Health Organization
Influential development journals	1 Economic Development and Cultural Change 2 Journal of Development Studies 3 World Development 4 Development and Change 5 Third World Quarterly 6 Journal of International Development 7 Development Policy Review 8 Canadian Journal of Development Studies 9 European Journal of Development Research 10 Progress in Development Studies

Using the computer software program ATLAS.TI, data were extracted, compared and analysed pertaining to the study particulars including conceptual framework, methodology, sampling and results.

To answer our research question, we first review disability and care literature and what it reveals on the impact of poverty. Then, we highlight three studies that specifically focus on the impact of poverty on carers of disabled children and thus examine the dynamics between all three concepts: disability, care and poverty. We conclude with identifying knowledge gaps and providing directions for future research.

### 3 DISABILITY AND CARE

As mentioned earlier, studies on parents of a disabled child are abundant, yet mostly conducted in affluent settings. By contrast, our literature search resulted in only 20 articles from a resource-poor setting, which suggests a lack of understanding of experiences of parents living in poverty. For comparison purposes, 40 articles from other settings were included. The resulting 60 studies under review represent 32 countries in total.<sup>5</sup>

Most of the disability and care literature has a disability, family and child care, nursing or health background. Other studies have appeared in rehabilitation or special education journals. By analysing the research questions of the studies, a few conceptual lenses used to study the parents' experiences are found to be common (Table 2). Most concepts relate

<sup>5</sup>Although Hong Kong and Taiwan are not officially recognized as countries, they are counted as such as they represent different cultural and socioeconomic backgrounds.

Table 2. Common concepts in literature

Concepts	Analysis of	Levels of measurement (one or more)	Example literature
Burden	Burden of childhood disability on parental lives	Emotional Psychological Physical health Social Financial Time Family functioning Parental employment	(Datta <i>et al.</i> , 2002; S. E. Green, 2007; Oh & Lee, 2009; Wijesinghe <i>et al.</i> , 2015)
Stress	Impact of childhood disability on parental stress levels and influential variable (such as child's gender)	Parental distress, depression and anxiety Pessimism Parental perceptions of child Social isolation Child–parent interaction Difficult behaviour child Family problems	(Shapiro & Tittle, 1990; Shin <i>et al.</i> , 2006; Wang <i>et al.</i> , 2011; John, 2012)
Wellbeing	Impact of childhood disability on parental wellbeing and influential variables (such as receiving support)	Emotional Psychological Pessimism Stress Physical Family functioning Parental education level Parental employment	(Seltzer <i>et al.</i> , 2001; McConkey <i>et al.</i> , 2008; Samadi <i>et al.</i> , 2014; Yagmurlu <i>et al.</i> , 2015)
Challenges/ unmet needs	Challenges or unmet needs in caring for a disabled child	Measurements unspecified, outcomes usually related to the following: Emotional Physical health Child behaviour Obtaining support (social, medical, information) Financial Time	(Resch <i>et al.</i> , 2010; Gona <i>et al.</i> , 2011; McNally & Mannan, 2013; Sandy <i>et al.</i> , 2013)
Coping	Coping efforts to manage external or internal stressors faced by parents with a disabled child	Emotional focussed (such as acceptance, express feelings and keeping active with hobbies) Problem-focussed (such as seeking cure and learning new skills)	(Hauser-Cram <i>et al.</i> , 2001; Taanila <i>et al.</i> , 2002; Hartley <i>et al.</i> , 2005; Kishore, 2011)
Positive effects	Positive effects and adaptation to childhood disability of parents	Emotional Spiritual Social Family functioning Parental employment	(Kayfitz <i>et al.</i> , 2010; McConnell <i>et al.</i> , 2015; H. J. Park & Chung, 2015; Ylvén <i>et al.</i> , 2006)

to the negative impact of childhood disability on parents (burden, stress, wellbeing and challenges/unmet needs) (cf. Neely-Barnes & Dia, 2008; Ryan & Runswick-Cole, 2008; McConnell *et al.*, 2015). This focus on adverse effects 'has underpinned much of the research of the past three decades' (Neely-Barnes & Dia, 2008). The underlying assumption is that caring for a disabled child is considered a burden by their carers, poses tremendous challenges and has a negative effect on multiple life domains (Ryan & Runswick-Cole, 2008). The concepts of coping and positive effects or (re)interpretation

counterbalance this negative presumption in literature (Seltzer *et al.*, 2001). These conceptual lenses try to capture how parents find ways to cope and attach positive meaning to parenting a disabled child (Gona *et al.*, 2011; McConnell *et al.*, 2015). They have, however, received less attention in literature.

To review this body of literature, the distinction made between the negative impact of childhood disability and the positive effects and coping mechanisms is useful. Rather than presenting literature following all employed concepts, this division provides an opportunity to assess how poverty forms both the negative and positive experiences and caring practices. Therefore, the next paragraphs follow this division. Moreover, we examine what each section of this body of literature can teach us on the influence of poverty.

### 3.1 Adverse Impact of Childhood Disability

Research on the negative impact of childhood disability generally encompasses the psychological and the physical effects of care on parents, as well as effects on a parent's environment, that is, the sociostructural impact (which will be explained later in this paragraph) [e.g. Hauser-Cram *et al.* (2001) on wellbeing and stress, Oh & Lee (2009) on burden and Resch *et al.* (2010) on challenges]. After describing these effects of childhood disability on carers, we discuss factors found to aggravate the adverse effects.

#### 3.1.1 Psychological impact

Research indicates that parents of disabled children are more likely to portray poor mental and physical health than other parents (Wallander & Marullo, 1997; Seltzer *et al.*, 2001; Taanila, Syrjälä, Kokkonen & Järvelin, 2002; Oelofsen & Richardson, 2006; Gona *et al.*, 2011). As a result of the demands of care, parents experience negative psychological and emotional effects. Kermanshahi *et al.* report in an Iranian study: 'All mothers identified degrees of painful emotions. "These emotions ranged from, feeling burdened and "finding the child a burden", "being agitated", to feeling "hopeless and depressed"' (2008: 320). Studies in Hong Kong, Uganda, Taiwan, Ireland, Jordan, China and Pakistan uncover feelings of guilt, being overwhelmed, sadness, anxiety and tremendous stress (Lam & Mackenzie, 2002; Hartley *et al.*, 2005; McConkey *et al.*, 2008; Wang, Michaels & Day, 2011; Azeem *et al.*, 2013).

Studies conducted in resource-poor settings, however, suggest that the reported negative emotions are not merely related to the child and the strain of care. Stigma and the consequential isolation are similarly pointed out as a source of painful emotions [e.g. in Uganda (Hartley *et al.*, 2005) and in Zimbabwe (Van der Mark & Verrest, 2014)]. Furthermore, poor living conditions and lack of access to services are reported to cause additional worry and concern [e.g. in South Africa (Hemming & Akhurst, 2009; Saloojee, Phohole, Saloojee & IJsselmuiden, 2007) and in Turkey (Yagmurlu *et al.*, 2015)]. As Emerson states: 'The "daily grind" of living in poverty is often a source of chronic and pervasive strain' (2004: 325). In fact, in a phenomenological study with a small sample in Tanzania, McNally and Mannan assert: 'The parents do not see the child as the problem. It is the inability to provide for the child that creates the most stress' (2013: 8). Research from Kenya, Pakistan and South Africa supports the notion of stress as a result of carers' constrained ability to satisfy their child's basic needs (respectively Gona *et al.*, 2011; Qayyum, Lasi & Rafique, 2013; Sandy, Kgole & Mavundla, 2013).

### 3.1.2 *Physical impact*

Chang and McConkey describe how Taiwanese ‘parents also spoke of the physical effort and strain in taking care of their child, especially if their child had a profound disability. Some mothers had suffered long-term physical illness and physical change, mentioning constant fatigue, and sprains’ (2008: 35). In particular, when a child grows older and therefore heavier, parents start to experience physical ailments (H. J. Park & Chung, 2015). This physical burden of care is acknowledged in other parts of the world, such as Uganda, Israel, Japan and Canada (respectively Hartley *et al.*, 2005; Heiman, 2002; Kimura & Yamazaki, 2013; Raina *et al.*, 2005).

However, in a Kenyan study, Geere *et al.* (2013) hypothesize physical burden to be more severe because of poverty. With limited provision of, for example, wheelchairs, specialized transport and personal hoists and in the context of poor housing, an extra burden is placed on parents’ physical efforts. Although Geere *et al.* do not positively establish this link, the physical demand of carrying a child because of transport and assistive technology shortages occurs frequently in literature from resource-poor settings [e.g. in South Africa (Hemming & Akhurst, 2009; Masasa, Irwin-Carruthers & Faure, 2005; Saloojee *et al.*, 2007), in Uganda (Hartley *et al.*, 2005) and in Tanzania (McNally & Mannan, 2013)]. In other literature, the constrained supply of assistive equipment and technologies in resource-poor areas is confirmed (Eide & Øderud, 2009).

### 3.1.3 *Sociostructural impact*

In her US-based research, Green (2007) protests the narrow focus on ‘individual, and emotional burdens’ (151) such as psychological and physical stresses in academic literature on carers of disabled children. She claims that it fails to capture the objective sociostructural effects. These include ‘items related to the impact of the child’s disability on the mother’s financial, work, family, social and recreational activities’ (ibid: 154). She therefore conceptualizes caregiving burden as an interplay between the subjective (emotional) and the objective (sociostructural) burden. Green’s conceptualization of the sociostructural impact of caring is useful to explore disability and care literature, as research examining the impact of care on carers’ circumstances is growing. Although studies use various concepts such as challenges, (impact on) wellbeing or a specific descriptive concept (such as impact on finances), they all relate to the sociostructural impact [e.g. Hauser-Cram *et al.* (2001) on wellbeing and stress; Leonard, Brust & Sapienza (1992) on financial and time costs; and Resch *et al.* (2010) on challenges].

Concerning the sociostructural impact, several issues are studied such as the effects of caring on finances in Canada (McConnell *et al.*, 2015), on social relationships in Canada (Watt & Wagner, 2013) or on family functioning in Israel (Al-Krenawi, Graham & Al Gharaibeh, 2011). Caring for a disabled child is found to be a time-consuming, expensive and isolating experience in addition to the physical and psychological effects [e.g. in Israel (Heiman, 2002), in South Africa (Hemming & Akhurst, 2009), in Canada (McConnell *et al.*, 2015) and in Zimbabwe (Van der Mark & Verrest, 2014)]. Engaging with a wide range of services for medical care, assistive devices and information is often cited as a time and cost-intensive process (Leonard *et al.*, 1992; Raina *et al.*, 2005; Yagmurulu *et al.*, 2015). Particularly, attaining information on both the practical and emotional side of having a disabled child is perceived as a struggle, for example, in Russia, Iran and Canada (respectively Kaplan, 2010; Kermanshahi *et al.*, 2008; Stainton & Besser, 1998). It reduces parents’ so-called health literacy. ‘Health literacy refers to an individual’s

achievement of a level of knowledge, personal skills and confidence to take action to improve his or her life' (Sandy *et al.*, 2013: 349).

In an impoverished area though, research suggests that the main burden is not simply the time needed to deal with these services because of childhood disability. Rather, a shortage of financial resources, a serious lack of existing services, limited knowledge on available services and transport constraints to access them are experienced as the major struggle. Affordability, availability and accessibility of services, which we in short refer to as the *Triple As*, are thus significant in a resource-poor context [e.g. in South Africa (Jones, Weinberg, Ehrlich & Roberts, 2000), in Pakistan (Qayyum *et al.*, 2013) and in Sri Lanka (Wijesinghe *et al.*, 2015)]. The Triple A conundrum also exacerbates the difficulty to attain information from services (Hartley *et al.*, 2005; Philpott & McLaren, 2011) and thus further diminishes health literacy.

Seltzer *et al.* (2001) report on the strenuous balance experienced by American parents between employment and the demands of care. Frequently, carers have to reduce their working hours or quit a job to be able to provide care for their child, which can lead to financial instability (e.g. Daudji *et al.*, 2011). Neely-Barnes and Dia (2008) show similar results in their cross-cultural literature review. Furthermore, problematic family functioning is reported because of a disabled child in the household (McConkey *et al.*, 2008). Personal and social relationships come under pressure because of the lack of time to invest in social and recreational activities by carers (Seltzer *et al.*, 2001; Chiang & Hadadian, 2007; Gona *et al.*, 2011). Some studies suggest that disability stigma aggravates social isolation. Because of negative responses, parents are more likely to stay at home and reduce their social activities [e.g. in Nigeria (Hamzat & Mordi, 2007), in Israel (Heiman, 2002) and in India (Kishore, 2011)].

Particularly, parents from resource-poor areas refer to disability stigma as a reason for a limited social life. For example, McNally and Mannan (2013) and Hartley *et al.* (2005) make note of Tanzanian and Ugandan carers wanting to hide their child out of shame and therefore not engaging in social events themselves. Furthermore, in Uganda and South Africa, reports are made of fathers abandoning their family once a disabled child is born (Hartley *et al.*, 2005; Hemming & Akhurst, 2009). Traditional and/or religious ideas surrounding disability (known as the moral model in disability studies;<sup>6</sup> Ingstad, 1995; ACPF, 2014; Yekple, 2014), which likely influence disability stigma, are amongst others reported in Kenya by Gona *et al.* (2011), in Nicaragua by Matt (2014) and in Vietnam by Shin *et al.* (2006). According to Ssebunnya *et al.* (2009), poverty can be a catalyst for stigma, as it can worsen one's disability and, therefore, in combination with prevailing belief systems, increase stigma. Furthermore, they suggest access to 'material resources [for example proper clothing] can offer protection against stigma' (2009: 5). Foley and Chowdhury conclude that

Regardless of disability, poverty can be a morally and socially devastating ordeal. However, [...] the added loss of social solidarity and equitable access, due to the social exclusion and stigma of disability for the families concerned, make it statistically far less likely that they will [...] be able to escape poverty (2007: 372).

A legitimate question to ask though is whether social isolation is more severe because of poverty and stigma, or whether other factors are at play as well. Gona *et al.* referencing

<sup>6</sup>The moral model harbours traditional ideas on the causes of disability which that include witchcraft, God's punishment, maternal promiscuity and ancestral wrath.



Nduati (1995) state, for example, that in Africa in particular, ‘the collapse of traditional systems coupled with social inequality’ (2011: 176) compromises family and community cohesion, which in turn diminishes available social support.

### *3.1.4 Influential variables for adverse impact*

Evidently, the psychological, physical and sociocultural impact of caring for a disabled child varies amongst parents. A vast number of quantitative studies focus on measuring these risk variables for caregiving burden of parents. These studies examine how specific child-related and mother-related variables predict caregiving burden (Aldosari & Pufpaff, 2014). Child-related factors include sex, level of disruptive behaviour, age and severity of disability (e.g. John, 2012; Samadi, McConkey & Bunting, 2014). Maternal-related variables take account of variables such as education level, age and marital status (e.g. S. E. Green, 2007; Oh & Lee, 2009).

Two other risk factors occasionally analysed are carers’ socioeconomic status and urban or rural residency. These variables in particular might shed some light on the influence of poverty on caring. For example, in Lebanon, India and Hong Kong, higher perceived burden is associated with a low income (respectively Azar & Badr, 2006; Datta, Russell & Gopalakrishna, 2002; Mak, Ho & Law, 2007). Several articles from a resource-poor context confirm these findings. In a 52 per cent low and 48 per cent middle income sample in Vietnam, Shin *et al.* (2006) find that low average monthly income increases parenting stress and perceived stigma. Geok, Abdullah and Kee (2013) report that poor and rural Malaysian parents experience lower quality of life than middle-income or urban parents. In addition, in a resource-poor Sri Lankan setting, rural residency results in higher perceived caregiver burden (Wijesinghe *et al.*, 2015). Income poverty and rural residency can thus aggravate experienced burden and stigma, yet the whys and wherefores remain unexplored in these studies.

## **3.2 Positive Impact of and Coping with Childhood Disability**

A growing body of research is available on coping mechanisms of parents of children with disabilities. Coping strategies are generally divided into problem-focussed strategies and emotional-focussed strategies (Lazarus & Folkman, 1984). However, not all studies make this division and merely show coping strategies from a phenomenological standpoint. Common coping strategies are seeking peer and social support [in Australia (Plant & Sanders, 2007) and in Finland (Taaniola *et al.*, 2002)], seeking medical or formal care [in Kenya (Gona *et al.*, 2011) and in Spain (Shapiro & Tittle, 1990)], seeking information and advice [in Israel (Heiman, 2002) and in the USA (Resch *et al.*, 2010)], acceptance and positive reinterpretation [in China (Wang *et al.*, 2011) and in seven countries (Ylvén, Björck-Åkesson & Granlund, 2006)] and learning new skills [in the USA (S. E. Green, 2007) and in Uganda (Hartley *et al.*, 2005)]. Religious coping or otherwise named spiritual intervention is reported to be connected to acceptance. Huang, Chen and Tsai state that for Chinese fathers: ‘Chinese religion sustained their hope of improving the child’s disability and strengthened their belief in their child’s future well-being’ (2012: 3290). Norizan and Shamsuddin (2010) find religious coping to be linked to positive adaptation in Malaysia, and Iranian parents believe that God has given them a special gift and thus accept their child fully (Kermanshahi *et al.*, 2008).

Data from resource-poor contexts reveal differences in importance and usage of certain coping strategies. Van der Mark and Verrest (2014) suggest that poverty impedes coping

through informal and formal support in Zimbabwe. In their study, mothers describe how friends, family and neighbours' capabilities to be of assistance are constrained by poverty. Even if people would want to help, their own lack of financial and material resources prevents them from doing so. Seeking formal and medical support from services is reported to be unfeasible because of the Triple A conundrum [e.g. in Pakistan (Qayyum *et al.*, 2013), in South Africa (Saloojee *et al.*, 2007) and in Zimbabwe (Van der Mark & Verrest, 2014)]. Instead, parents' self-reliance is revealed as an important strategy. Carers tend to resort more to learning skills themselves, such as giving physiotherapy, making assistive devices or administering medication (e.g. Hartley *et al.*, 2005; Gona *et al.*, 2011).

Religious coping is most frequently described in resource-poor settings, which suggests greater importance. Faith enhances carers' ability to accept their child and be positive and confident about the future, as, for example, reported in South Africa, Nicaragua, Tanzania and Sri Lanka (respectively Masasa *et al.*, 2005; Matt, 2014; McNally & Mannan, 2013; Wijesinghe *et al.*, 2015). Religious coping is widely acknowledged in coping and care literature on, for example, caring for elder relatives (Pearce, 2005; Hebert, Weinstein, Martire & Schulz, 2006; Herrera *et al.*, 2009). It has, however, a small presence in disability and care research from resource-rich settings. Perhaps this is influenced by the larger prominence of religiosity in developing countries (Crabtree, 2010) or the possible increased use of religious coping in the context of poverty (Black, 1999; Puffer *et al.*, 2012; Wadsworth, 2012).

In addition to the focus on coping mechanisms, some authors incorporate and assess the positive effects and meanings attributed to parenting a disabled child. Green (2007) reveals that American mothers value the peace and joy their child brings into the family. Interestingly, Green notes that becoming an expert in the medical system is perceived as a benefit, despite it being costly and time consuming. Extensive knowledge of the medical system and being comfortable in it helps parents in other times of crisis, unrelated to their child. Also, in their Korean study, Park and Chung (2015) state:

'All mothers in this study shared that the changes their child's disability brought to their own lives helped them grow over time as a person. Many agreed that they have become more open-minded and have new expectations for life as a person apart from life as a mother'.

Stanton and Besser (1998) demonstrate in a Canadian study that having a disabled child in the family increases family cohesion and parental relations, which is confirmed by Kayfitz, Gragg and Orr (2010). Tanzanian carers are reported by McNally and Mannan (2013) to experience happiness by interacting with their child and seeing their progress. This positive impact is described for both resource-rich and resource-poor settings.

In sum, disability and care literature provides an understanding of the adverse and positive impact of childhood disability on carers and coping strategies. Moreover, it preliminarily points towards the influence of poverty. The question is not *whether* a resource-poor context will influence parenting a disabled child, but rather *how* it affects parents. The discussed literature shows that Triple A challenges hinder caring strategies; increased stigma diminishes social support; the inability to provide for basic needs intensifies stress; transport and assistive devices shortages exacerbate physical impact; and faith functions as a buffer. Nevertheless, these contextual dynamics merely shine through in the descriptions of parents' perceived adverse and positive effects and are not assessed conceptually.

#### 4 HIGHLIGHTING POVERTY AS A CONTEXTUAL FACTOR

In our literature search, we only found three articles in disability and care literature specifically analysing the three concepts simultaneously, that is, the impact of poverty on carers of children with disabilities. These articles are highlighted in the succeeding texts to examine what an explicit focus on poverty reveals.

In a qualitative Ecuadorian study, Huiracocha *et al.* (2015) examine the role of the so-called 'social situation' on the experiences of parents with a deaf child. They argue parents' responses to the diagnosis, and their coping mechanisms 'are shaped by the situations in which they live, rather than being inherent in the impairment itself' (2015:11). In line with a study by Beazley and Moore (1995), they choose to include health care availability, social organization and culture, and individual resources and structures into their analysis. Based on interviews with parents, Huiracocha *et al.* (2015) show that limited financial and social resources, either because of poverty or disability stigma, shape the character of their experiences. Because their sample also includes Ecuadorian parents from a more advantaged background, their research demonstrates how the individual and societal contexts affect the possibilities for seeking and receiving informal and formal support. This supports previously discussed data on the limited presence of coping by seeking support in resource-poor contexts.

Contrary to most literature on carers of disabled children, Barratt and Penn (2009) choose not to apply a burden or coping framework to their study in a South African rural setting. Instead, they focus on the relationship amongst contextual factors, childhood disability and care. Their research confirms the Triple A challenges, the severe disability stigma and related discrimination and exclusion, and the supportive role of faith and peer support as previously described. Yet, because of their focus on the impact of poverty, their research brings two important factors to the table, namely, the HIV/AIDS pandemic and government policies. On the one hand, in the South African context, HIV/AIDS has crippled the personal and social support networks available. Loss of income, disrupted families, stigma and exclusion as a result of HIV/AIDS cause an intensification of poverty. On the other hand, 'this disease provides family members with access to disability grants, which were acknowledged to be helpful in addressing the needs of disabled children' (Barratt & Penn, 2009: 199). This is similar for government policies that saw instalment of a care dependency grant (specifically for carers of disabled children) and a child support grant (for carers in need). HIV/AIDS and government policies are thus relevant factors for carers in a resource-poor context, as they can exacerbate or reduce poverty by offering new opportunities.

An interesting literature review worth noting is Park, Turnbull and Turnbull (2002), in which the impact of poverty on American families with a disabled child is examined. Using a Family Quality of Life framework, the authors review the consequences of living in poverty on five life domains, namely, 'a) health, (b) productivity, (c) physical environment, (d) emotional wellbeing, and (e) family interaction' (Park *et al.*, 2002: 155). They establish that poverty adds an additional strain to the families and alters caring practices as a consequence of limited resources and lesser available coping strategies. Poverty in the context of disability increases stress, hampers child learning and development, heightens the risk of alcohol and drug abuse by parents, reduces the quality of home and neighbouring environment and limits recreational activities and play. However, Park, Turnbull and Turnbull use an income-based definition of poverty, which provides a narrow view on the impact of

poverty (Hall & Midgley, 2004). They demonstrate, for example, that having limited financial resources reduces possibilities for recreational activities at sports clubs, camps and music schools. In a resource-poor context, however, institutional provisions such as recreational activities, professional child care and stimulating toys and books are commonly unavailable, which reduces the applicability of Park's research to such a context.

These three articles confirm most features of the impact of poverty found previously such as the Triple A challenges, the influence of stigma, limited social support, religious coping and increased stress. In addition, Huiracocha *et al.* (2015) provide an invaluable comparison between two groups, which highlights the resource-poor context as a determining factor. Barratt and Penn (2009) point towards the importance of taking HIV/AIDS (thus possibly also other poverty-related 'neglected' diseases; Stevens, 2004) and government policies into account. Lastly, Park *et al.* (2002) show how poverty increases drug and alcohol abuse amongst parents and offer a useful conceptualization of the impact of poverty.

## 5 DISCUSSION

This article set out to gain a preliminary theoretical understanding of how living in a resource-poor context shapes parents' experiences of caring for a disabled child, that is, the interplay between disability, care and poverty. We argued at the beginning of this article that this knowledge is essential for enhancing disability mainstreaming in development. The core concern in disability mainstreaming is universal poverty reduction or eradication and human and social development for all. This review could be used as a stepping stone for further research and herewith inform poverty reduction strategies, reach full inclusive development and improve the wellbeing of parents and disabled children from resource-poor contexts in the long term.

We do acknowledge this review's limitations. First of all, it does not offer a full picture of the dynamics between disability, care and poverty. Its narrative nature and the small number of studies from a resource-poor setting provide for a preliminary understanding only. We therefore believe that development policy recommendations cannot be made as they would be insufficiently substantiated. This review aims primarily at synthesizing an important topic and informing further research. In addition, a narrative literature review comes with a risk of author bias. This has been reduced as much as possible by applying sound research procedures, such as explicit criteria for inclusion, clear research questions and discussions of findings with the project team. Last of all, we recognize the vast complexity of the lived realities of parents of disabled children. Poverty is just one of many factors of the interconnected context encompassing parents and children. However, we chose to focus solely on poverty and its specific impact as portrayed in literature in order to make targeted research recommendations. Notwithstanding the limitations, our review does (i) provide a preliminary theoretical understanding, (ii) disclose existing knowledge-gaps and (iii) offer a direction for future research.

Disability and care literature shows that parenting a disabled child can be time-consuming, stressful, physically challenging, isolating and expensive. Yet, parents find various mechanisms to cope with the situation. This creates room for positive experiences and perceived benefits. Studies on carers living in a resource-poor context, however, suggest that poverty influences both the perceived negative impact and the coping

strategies. Our review shows that limited affordability, availability and accessibility (Triple A) of services impedes caring strategies; increased stigma reduces social support; the inability to satisfy basic needs increases stress; transport and assistive device shortages aggravate physical impact; and faith can act as a buffer. The three highlighted disability and care articles indicate a higher risk for drug and alcohol abuse by parents and the role of HIV/AIDS and government policies in resource-poor contexts. The literature uncovers the context dependency of caring for a disabled child; political, cultural and social exclusion issues surface as part of the disability, care and poverty nexus. The preceding texts therefore provide an initial answer to our research question on how poverty shapes caring experiences and practices in the context of childhood disability.

Nevertheless, substantial knowledge gaps remain in the current literature. Disability and care research from impoverished settings is scant; only 20 articles were found. The majority focusses on the impact of childhood disability on parents. The conceptual lenses used to analyse parents' experiences do not specifically address a notion of poverty or other restricting structures. Contextual factors merely arise in the parents' descriptions of perceived adverse and positive effects of childhood disability. Just three studies have been found with a more contextual focus explicitly examining the impact of poverty on carers of disabled children. This sample of evidence (20 articles) can hardly be called representative for resource-poor regions worldwide, as personal and contextual conditions vary. For example, are experiences of Triple A challenges in caring similar for parents with a high and low education level alike? Does family composition (e.g. nuclear family, single-mother family, high number of children) alter poverty experiences and therefore giving care? How does poverty relate to care and the different types of childhood disability? Also, a lack of clarity remains on which effects are caused by childhood disability, by poverty or by other contextual factors such as HIV/AIDS. How does the burden of disease affect poverty conditions and thus providing care? What are the dynamics between government policies, poverty and caring for a disabled child? Is social support for carers limited because of poverty or is it related more to urban migration?

Furthermore, as the interplay between disability, poverty and care relates to multiple academic disciplines, no universal conceptual framework exists for researching the impact of poverty on parents of disabled children. Evidence remains fragmented and difficult to appraise because of the plethora of employed concepts.

In light of the various knowledge gaps, we argue that future research should particularly target parents of disabled children living in poverty and their experiences, practices and needs. Studies should (i) increase focus on impoverished settings, (ii) analyse variations along demographic and contextual variables in resource-poor settings, preferably (iii) have a multidisciplinary character and (iv) have parents participate in research to assure practical relevance and (e) aim at developing a conceptual framework for analysis.

With reference to the latter, we suggest a conceptual framework in which the adverse and positive impact of childhood disability on parents and coping strategies are combined with a conceptual framework that recognizes a context of poverty. Such a framework gives room to both the influential factors such as stigma, HIV/AIDS and the Triple As and to the more personal attributes such as faith, physical impact and self-reliance. It would recognize carers and their individual agency whilst acknowledging structural influences and includes important concepts and factors derived from reviewed literature. Empirical testing, ongoing adjustment and input from various disciplines can help establish such a robust conceptual framework, which can provide a holistic encompassing understanding of parents of children with disabilities living in

poverty. Scientific research will be then able to play a larger role in both informing social welfare policies and disability-inclusive poverty reduction and development policies. This can potentially empower thousands of carers and disabled children and enhance their opportunities to escape poverty.

## ACKNOWLEDGEMENTS

This project has been funded with support of the European Commission. This publication reflects the view only of the author(s), and the commission cannot be held responsible for any use that may be made of the information contained therein.

## REFERENCES

- ACPF. 2014. *The African Report on Children with Disabilities: Promising Starts and Persisting Challenges*. The African Child Policy Forum: Addis Ababa.
- Aldosari MS, Pufpaff LA. 2014. Sources of stress among parents of children with intellectual disabilities: a preliminary investigation in Saudi Arabia. *The Journal of Special Education Apprenticeship* 3(1): 1–21.
- Alkire, S. 2011. Multidimensional poverty and its discontents. OPHI Working Paper. No. 46. University of Oxford, Oxford. DOI:<https://doi.org/10.2139/ssrn.2118543>
- Al-Krenawi A, Graham JR, Al Gharaibeh F. 2011. The impact of intellectual disability, caregiver burden, family functioning, marital quality, and sense of coherence. *Disability & Society* 26(2): 139–150. <https://doi.org/10.1080/09687599.2011.543861>
- Azar M, Badr LK. 2006. The adaptation of mothers of children with intellectual disability in Lebanon. *Journal of Transcultural Nursing: Official Journal of the Transcultural Nursing Society / Transcultural Nursing Society* 17(4): 375–380. <https://doi.org/10.1177/1043659606291550>
- Azeem MW, Dogar IA, Shah S, Cheema MA, Asmat A, Akbar M, Haider II. 2013. Anxiety and depression among parents of children with intellectual disability in Pakistan. *Journal of the Canadian Academy of Child and Adolescent Psychiatry* 22(4): 290–295.
- Barratt J, Penn C. 2009. Listening to the voices of disability: experiences of caring for children with cerebral palsy in a rural South African setting. In *Disability & International Development: Towards Inclusive Global Health*, MacLachlan M, Swartz L (eds). Springer: New York; 191–212.
- Beazley S, Moore M. 1995. *Deaf Children, Their Families and Professionals*. David Fulton: London.
- Black HK. 1999. Poverty and prayer: spiritual narratives of elderly African-American women. *Review of Religious Research* 40(4): 359–374. <https://doi.org/10.2307/3512122>
- Bronfenbrenner U. 1986. Ecology of the family as a context for human development: research perspectives. *Developmental Psychology* 22(6): 723–742. <https://doi.org/10.1037/0012-1649.22.6.723>
- Chambers R. 1995. Poverty and livelihoods: whose reality counts? *Environment and Urbanization* 7(1): 173–204. <https://doi.org/10.1177/095624789500700106>
- Chang M, McConkey R. 2008. The perceptions and experiences of Taiwanese parents who have children with an intellectual disability. *International Journal of Disability, Development and Education* 55(1): 27–41. <https://doi.org/10.1080/10349120701827961>
- Chiang LH, Hadadian A. 2007. Chinese and Chinese-American families of children with disabilities. *International Journal of Special Education* 22(2): 19–23.

- Crabtree, S. 2010. Religiosity highest in world's poorest nations. Retrieved from <http://www.gallup.com/poll/142727/religiosity-highest-world-poorest-nations.aspx> on August 13 2015.
- Dajani K. 2001. Other research—what's in a name? Terms used to refer to people with disabilities. *Disability Studies Quarterly* **21**(3): 196–209.
- Datta SS, Russell PSS, Gopalakrishna SC. 2002. Burden among the caregivers of children with intellectual disability associations and risk factors. *Journal of Intellectual Disabilities* **6**(4): 337–350. <https://doi.org/10.1177/146900470200600401>
- Daudji A, Eby S, Foo T, Ladak F, Sinclair C, Landry MD, Gibson BE. 2011. Perceptions of disability among south Asian immigrant mothers of children with disabilities in Canada: implications for rehabilitation service delivery. *Disability and Rehabilitation* **33**(6): 511–521. <https://doi.org/10.3109/09638288.2010.498549>
- Deneulin S, Shahani L. 2009. *An Introduction to the Human Development and Capability Approach: Freedom and Agency*. Earthscan: Oxford, E-book.
- Eide AH, Ingstad B (Eds). 2011. *Disability and Poverty: A Global Challenge*. The Policy Press: Bristol.
- Eide AH, Øderud T. 2009. Assistive technology in low-income countries. In *Disability & International Development: Towards Inclusive Global Health*, MacLachlan M, Swartz L (eds). Springer: New York; 149–160.
- Elwan, A. 1999. Poverty and disability: a survey of the literature. SP Discussion Paper. No. 9932. Social Protection Unit, World Bank, Washington DC.
- Emerson E. 2004. Poverty and children with intellectual disabilities in the world's richer countries. *Journal of Intellectual and Developmental Disability* **29**(4): 319–338. <https://doi.org/10.1080/13668250400014491>
- Evans R, Atim A. 2011. Care, disability and HIV in Africa: diverging or interconnected concepts and practices? *Third World Quarterly* **32**(8): 1437–1454. <https://doi.org/10.1080/01436597.2011.604517>
- Foley D, Chowdhury J. 2007. Poverty, social exclusion and the politics of disability: care as a social good and the expenditure of social capital in Chuadanga, Bangladesh. *Social Policy & Administration* **41**(4): 372–385. <https://doi.org/10.1111/j.1467-9515.2007.00559.x>
- Geere J, Gona J, Omondi F, Kifalu M, Newton C, Hartley S. 2013. Caring for children with physical disability in Kenya: potential links between caregiving and carers' physical health. *Child: Care, Health and Development* **39**(3): 381–392. <https://doi.org/10.1111/j.1365-2214.2012.01398.x>
- Geok CK, Abdullah KL, Kee LH. 2013. Quality of life among Malaysian mothers with a child with Down syndrome. *International Journal of Nursing Practice* **19**(4): 381–389. <https://doi.org/10.1111/ijn.12083>
- Gona JK, Mung'ala-Odera V, Newton CR, Hartley S. 2011. Caring for children with disabilities in Kilifi, Kenya: what is the carer's experience? *Child: care, Health and Development* **37**(2): 175–183. <https://doi.org/10.1111/j.1365-2214.2010.01124.x>
- Green BN, Johnson CD, Adams A. 2006. Writing narrative literature reviews for peer-reviewed journals: secrets of the trade. *Journal of Chiropractic Medicine* **5**(3): 101–117. [https://doi.org/10.1016/S0899-3467\(07\)60142-6](https://doi.org/10.1016/S0899-3467(07)60142-6)
- Green SE. 2007. "We're tired, not sad": benefits and burdens of mothering a child with a disability. *Social Science & Medicine* **64**(1): 150–163. <https://doi.org/10.1016/j.socscimed.2006.08.025>
- Hall AL, Midgley J. 2004. *Social Policy for Development*. Sage Publications: London.
- Hamzat TK, Mordi EL. 2007. Impact of caring for children with cerebral palsy on the general health of their caregivers in an African community. *International Journal of Rehabilitation Research. Internationale Zeitschrift Fur Rehabilitationsforschung. Revue Internationale De Recherches De Readaptation* **30**(3): 191–194. <https://doi.org/10.1097/MRR.0b013e3281e5af46>

- Hartley SOVP, Ojwang P, Baguwemu A, Ddamulira M, Chavuta A. 2005. How do carers of disabled children cope? The Ugandan perspective. *Child: Care, Health and Development* **31**(2): 167–180. <https://doi.org/10.1111/j.1365-2214.2004.00464.x>
- Hauser-Cram P, Warfield ME, Shonkoff JP, Krauss MW, Sayer A, Upshur CC, Hodapp RM. 2001. Children with disabilities: a longitudinal study of child development and parent well-being. *Monographs of the Society for Research in Child Development* **66**(3): i-viii+: 1–126.
- Hebert RS, Weinstein E, Martire LM, Schulz R. 2006. Religion, spirituality and the well-being of informal caregivers: a review, critique, and research prospectus. *Aging and Mental Health* **10**(5): 497–520. <https://doi.org/10.1080/13607860600638131>
- Heiman T. 2002. Parents of children with disabilities: resilience, coping, and future expectations. *Journal of Developmental and Physical Disabilities* **14**(2): 159–171. <https://doi.org/10.1023/A:1015219514621>
- Hemming E, Akhurst J. 2009. Mothers' life-worlds in a developing context when a child has special needs. *Indo-Pacific Journal of Phenomenology* **9**(1): 1–12. <https://doi.org/10.1080/20797222.2009.11433988>
- Herrera AP, Lee JW, Nanyonjo RD, Laufman LE, Torres-Vigil I. 2009. Religious coping and caregiver well-being in Mexican-American families. *Aging and Mental Health* **13**(1): 84–91. <https://doi.org/10.1080/13607860802154507>
- Huang Y, Chen S, Tsai S. 2012. Father's experiences of involvement in the daily care of their child with developmental disability in a Chinese context. *Journal of Clinical Nursing* **21**(21–22): 3287–3296. <https://doi.org/10.1111/j.1365-2702.2012.04142.x>
- Huiracocha L, Brito L, Pérez ME, Clavijo R, Sempertegui S, Huiracocha K, Blume S. 2015. 'Su guagua no escucha nada': Ecuadorian families confronting the deafness of a child. *Disability & Society* **30**(4): 556–568. <https://doi.org/10.1080/09687599.2015.1024828>
- Hunter N. 2012. The economic and gender consequences of South Africa's home-based care policy. *Social Policy & Administration* **46**(6): 654–671. <https://doi.org/10.1111/j.1467-9515.2012.00861.x>
- Ice GH, Yogo J, Heh V, Juma E. 2010. The impact of caregiving on the health and well-being of Kenyan Luo grandparents. *Research on Aging* **32**(1): 40–66. <https://doi.org/10.1177/0164027509348128>
- Ingstad B. 1995. *Disability and Culture*. University of California Press: Los Angeles.
- John A. 2012. Stress among mothers of children with intellectual disabilities in urban India: role of gender and maternal coping. *Journal of Applied Research in Intellectual Disabilities* **25**(4): 372–382. <https://doi.org/10.1111/j.1468-3148.2011.00672.x>
- Jones S, Weinberg M, Ehrlich R, Roberts K. 2000. Knowledge, attitudes, and practices of parents of asthmatic children in Cape Town. *Journal of Asthma* **37**(6): 519–528. <https://doi.org/10.3109/02770900009055479>
- Kaplan RL. 2010. Caregiving mothers of children with impairments: coping and support in Russia. *Disability & Society* **25**(6): 715–729. <https://doi.org/10.1080/09687599.2010.505747>
- Kayfitz AD, Gragg MN, Orr R. 2010. Positive experiences of mothers and fathers of children with autism. *Journal of Applied Research in Intellectual Disabilities* **23**(4): 337–343. <https://doi.org/10.1111/j.1468-3148.2009.00539.x>
- Kermanshahi S, Vanaki Z, Ahmadi F, Kazemnejad A, Mordoch E, Azadfalsh P. 2008. Iranian mothers' perceptions of their lives with children with mental retardation: a preliminary phenomenological investigation. *Journal of Developmental and Physical Disabilities* **20**(4): 317–326. <https://doi.org/10.1007/s10882-008-9099-3>
- Kimura M, Yamazaki Y. 2013. The lived experience of mothers of multiple children with intellectual disabilities. *Qualitative Health Research* **23**(10): 1307–1319. <https://doi.org/10.1177/1049732313504828>



- Kishore MT. 2011. Disability impact and coping in mothers of children with intellectual disabilities and multiple disabilities. *Journal of Intellectual Disabilities: JOID* **15**(4): 241–251. <https://doi.org/10.1177/1744629511431659>
- Kuhlthau K. 2012. Parent caregivers of children with disabilities. In *Multiple Dimensions of Caregiving and Disability*, Talley RC, Crews JE (eds). Springer: New York; 67–82.
- Lam LW, Mackenzie AE. 2002. Coping with a child with Down syndrome: the experiences of mothers in Hong Kong. *Qualitative Health Research* **12**(2): 223–237. <https://doi.org/10.1177/104973202129119856>
- Lazarus RS, Folkman S. 1984. *Stress, Appraisal, and Coping*. Springer: New York.
- Leonard B, Brust JD, Sapienza JJ. 1992. Financial and time costs to parents of severely disabled children. *Public Health Reports* **107**(3): 302–312.
- Lindsey E, Hirschfeld M, Tlou S. 2003. Home-based care in Botswana: experiences of older women and young girls. *Health Care for Women International* **24**(6): 486–501. <https://doi.org/10.1080/07399330390199384>
- Loeb M, Eide AH, Jelsma J, Toni M k, Maart S. 2008. Poverty and disability in eastern and western cape provinces, South Africa. *Disability & Society* **23**(4): 311–321. <https://doi.org/10.1080/09687590802038803>
- Mackelprang RW. 2010. Disability controversies: past, present, and future. *Journal of Social Work in Disability & Rehabilitation* **9**(2–3): 87–98. <https://doi.org/10.1080/1536710X.2010.493475>
- MacLachlan M, Swartz L (Eds). 2009. *Disability & International Development: Towards Inclusive Global Health*. Springer: New York.
- Mak WW, Ho AH, Law RW. 2007. Sense of coherence, parenting attitudes and stress among mothers of children with autism in Hong Kong. *Journal of Applied Research in Intellectual Disabilities* **20**(2): 157–167. <https://doi.org/10.1111/j.1468-3148.2006.00315.x>
- Masasa T, Irwin-Carruthers S, Faure M. 2005. Knowledge of, beliefs about and attitudes to disability: implications for health professionals. *South African Family Practice* **47**(7): 40–44.
- Matt SB. 2014. Perceptions of disability among parents of children with disabilities in Nicaragua: implications for future opportunities and health care access. *Disability Studies Quarterly* **34**(4): <https://doi.org/10.18061/dsq.v34i4.3863>
- McConkey R, Truesdale-Kennedy M, Chang M, Jarrah S, Shukri R. 2008. The impact on mothers of bringing up a child with intellectual disabilities: a cross-cultural study. *International Journal of Nursing Studies* **45**(1): 65–74. <https://doi.org/10.1016/j.ijnurstu.2006.08.007>
- McConnell D, Savage A, Sobsey D, Uditsky B. 2015. Benefit-finding or finding benefits? The positive impact of having a disabled child. *Disability & Society* **30**(1): 29–45. <https://doi.org/10.1080/09687599.2014.984803>
- McNally A, Mannan H. 2013. Perceptions of caring for children with disabilities: experiences from Moshi, Tanzania. *African Journal of Disability* **2**(1): 1–10. <https://doi.org/10.4102/ajod.v2i1.21>
- Mitra S, Posarac A, Vick B. 2013. Disability and poverty in developing countries: a multidimensional study. *World Development* **41**: 1–18. <https://doi.org/10.1016/j.worlddev.2012.05.024>
- Neely-Barnes SL, Dia DA. 2008. Families of children with disabilities: a review of literature and recommendations for interventions. *Journal of Early and Intensive Behavior Intervention* **5**(3): 93–107. DOI: <http://psycnet.apa.org/doi/10.1037/h0100425>
- Norizan A, Shamsuddin K. 2010. Predictors of parenting stress among Malaysian mothers of children with Down syndrome. *Journal of Intellectual Disability Research* **54**(11): 992–1003. <https://doi.org/10.1111/j.1365-2788.2010.01324.x>

- Oelofsen N, Richardson P. 2006. Sense of coherence and parenting stress in mothers and fathers of preschool children with developmental disability. *Journal of Intellectual and Developmental Disability* **31**(1): 1–12. <https://doi.org/10.1080/13668250500349367>
- Oh H, Lee EO. 2009. Caregiver burden and social support among mothers raising children with developmental disabilities in South Korea. *International Journal of Disability, Development and Education* **56**(2): 149–167. <https://doi.org/10.1080/10349120902868624>
- Palmer M. 2011. Disability and poverty: a conceptual review. *Journal of Disability Policy Studies* **21**(4): 210–218.
- Park HJ, Chung GH. 2015. A multifaceted model of changes and adaptation among Korean mothers of children with disabilities. *Journal of Child and Family Studies* **24**(4): 915–929. <https://doi.org/10.1007/s10826-014-9902-y>
- Park J, Turnbull AP, Turnbull HR. 2002. Impacts of poverty on quality of life in families of children with disabilities. *Exceptional Children* **68**(2): 151–170. <https://doi.org/10.1177/001440290206800201>
- Pearce MJ. 2005. A critical review of the forms and value of religious coping among informal caregivers. *Journal of Religion and Health* **44**(1): 81–117. <https://doi.org/10.1007/s10943-004-1147-4>
- Philpott S, McLaren P. 2011. *Hearing the Voices of Children and Caregivers: Children with Disabilities in South Africa; A Situation Analysis, 2001–2011*. Department of Social Development, Republic of South Africa/ UNICEF: Pretoria.
- Plant KM, Sanders MR. 2007. Predictors of care-giver stress in families of preschool-aged children with developmental disabilities. *Journal of Intellectual Disability Research* **51**(2): 109–124. <https://doi.org/10.1111/j.1365-2788.2006.00829.x>
- Pouw N, Gilmore B. 2012. Well-being in theory and practice. In *Local Governance and Poverty in Developing Nations*, Pouw N, Baud ISA (eds). Routledge: New York; 17–31.
- Power M. 2001. Geographies of disability and development in southern Africa. *Disability Studies Quarterly* **21**(4): 84–97.
- Puffer ES, Watt MH, Sikkema KJ, Ogwang-Odhiambo RA, Broverman SA. 2012. The protective role of religious coping in adolescents' responses to poverty and sexual decision-making in rural Kenya. *Journal of Research on Adolescence* **22**(1): 1–7. <https://doi.org/10.1111/j.1532-7795.2011.00760.x>
- Qayyum A, Lasi SZ, Rafique G. 2013. Perceptions of primary caregivers of children with disabilities in two communities from Sindh and Baluchistan, Pakistan. *Disability, CBR & Inclusive Development* **24**(1): 130–142. <https://doi.org/10.5463/DCID.v24i1.193>
- Raina P, O'Donnell M, Rosenbaum P, Brehaut J, Walter SD, Russell D, et al. 2005. The health and well-being of caregivers of children with cerebral palsy. *Pediatrics* **115**(6): 626–636. <https://doi.org/10.1542/peds.2004-1689>
- Resch JA, Mireles G, Benz MR, Grenwelge C, Peterson R, Zhang D. 2010. Giving parents a voice: a qualitative study of the challenges experienced by parents of children with disabilities. *Rehabilitation Psychology* **55**(2): 139–150. <https://doi.org/10.1037/a0019473>
- Ryan S, Runswick-Cole K. 2008. Repositioning mothers: mothers, disabled children and disability studies. *Disability & Society* **23**(3): 199–210. <https://doi.org/10.1080/09687590801953937>
- Saloojee G, Phohole M, Saloojee H, IJsselmuiden C. 2007. Unmet health, welfare and educational needs of disabled children in an impoverished South African peri-urban township. *Child: Care, Health and Development* **33**(3): 230–235. <https://doi.org/10.1111/j.1365-2214.2006.00645.x>
- Samadi SA, McConkey R, Bunting B. 2014. Parental wellbeing of Iranian families with children who have developmental disabilities. *Research in Developmental Disabilities* **35**(7): 1639–1647. <https://doi.org/10.1016/j.ridd.2014.04.001>

- Sandy P, Kgole J, Mavundla T. 2013. Support needs of caregivers: case studies in South Africa. *International Nursing Review* **60**(3): 344–350. <https://doi.org/10.1111/inr.12022>
- Seltzer MM, Greenberg JS, Floyd FJ, Pettee Y, Hong J. 2001. Life course impacts of parenting a child with a disability. *American Journal on Mental Retardation* **106**(3): 265–286. [https://doi.org/10.1352/0895-8017\(2001\)106:2.0.CO;2](https://doi.org/10.1352/0895-8017(2001)106:2.0.CO;2)
- Sen A. 1992. *Inequality Reexamined*. Clarendon Press: Gloucestershire.
- Shapiro J, Tittle K. 1990. Maternal adaptation to child disability in a Hispanic population. *Family Relations* **39**(2): 179–185.
- Shin J, Nhan N, Crittenden K, Hong H, Flory M, Ladinsky J. 2006. Parenting stress of mothers and fathers of young children with cognitive delays in Vietnam. *Journal of Intellectual Disability Research* **50**(10): 748–760. <https://doi.org/10.1111/j.1365-2788.2006.00840.x>
- Ssebunnya J, Kigozi F, Lund C, Kizza D, Okello E. 2009. Stakeholder perceptions of mental health stigma and poverty in Uganda. *BMC International Health and Human Rights* **9**(5): <https://doi.org/10.1186/1472-698X-9-5>
- Stainton T, Besser H. 1998. The positive impact of children with an intellectual disability on the family. *Journal of Intellectual and Developmental Disability* **23**(1): 57–70. <https://doi.org/10.1080/13668259800033581>
- Stevens P. 2004. *Diseases of Poverty and the 10/90 Gap*. International Policy Network: London.
- Swartz L. 2009. Building disability research capacity in low-income contexts: possibilities and challenges. In *Disability & International Development: Towards Inclusive Global Health*, MacLachlan M, Swartz L (eds). Springer: New York; 91–103.
- Taanila A, Syrjälä L, Kokkonen J, Järvelin M. 2002. Coping of parents with physically and/or intellectually disabled children. *Child: Care, Health and Development* **28**(1): 73–86. <https://doi.org/10.1046/j.1365-2214.2002.00244.x>
- UN. 2007. Convention on the rights of persons with disabilities. Retrieved from <http://www.un.org/disabilities/convention/conventionfull.shtml> on November 4 2014.
- UN Enable. 2003. Review and appraisal of the world programme of action concerning disabled persons: report of the secretary general. Retrieved from <http://www.un.org/esa/socdev/enable/disa5861e.htm> on September 2 2015.
- Van der Mark EJ, Verrest H. 2014. Fighting the odds: strategies of female caregivers of disabled children in Zimbabwe. *Disability & Society* **29**(9): 1412–1427. <https://doi.org/10.1080/09687599.2014.934441>
- Wadsworth ME. 2012. Working with low-income families: lessons learned from basic and applied research on coping with poverty-related stress. *Journal of Contemporary Psychotherapy* **42**(1): 17–25. <https://doi.org/10.1007/s10879-011-9192-2>
- Wallander JL, Marullo DS. 1997. Handicap-related problems in mothers of children with physical impairments. *Research in Developmental Disabilities* **18**(2): 151–165. [https://doi.org/10.1016/S0891-4222\(96\)00035-2](https://doi.org/10.1016/S0891-4222(96)00035-2)
- Wang P, Michaels CA, Day MS. 2011. Stresses and coping strategies of Chinese families with children with autism and other developmental disabilities. *Journal of Autism and Developmental Disorders* **41**(6): 783–795. <https://doi.org/10.1007/s10803-010-1099-3>
- Watt M, Wagner SL. 2013. Parenting a child with autism spectrum disorder: parental work context. *Community, Work & Family* **16**(1): 20–38. <https://doi.org/10.1080/13668803.2012.692890>
- Wijesinghe CJ, Cunningham N, Fonseka P, Hewage CG, Østbye T. 2015. Factors associated with caregiver burden among caregivers of children with cerebral palsy in Sri Lanka. *Asia-Pacific Journal of Public Health* **27**(1): 85–95. <https://doi.org/10.1177/1010539514548756>
- World Bank. 2015. *Why Disability Inclusive Development Matters: The Promise of Social Inclusion*. Video Conference Coverage: Washington.

- Yagmurlu B, Yavuz HM, Sen H. 2015. Well-being of mothers of children with orthopedic disabilities in a disadvantaged context: findings from Turkey. *Journal of Child and Family Studies* **24**(4): 948–956. <https://doi.org/10.1007/s10826-014-9905-8>
- Yekple YE. 2014. Traditional practices and belief systems as factors influencing access and enrolment of children with intellectual disability in special schools in Ghana. *IFE Psychologia* **22**(1): 130–139.
- Yeo R, Moore K. 2003. Including disabled people in poverty reduction work: “nothing about us, without us”. *World Development* **31**(3): 571–590. [https://doi.org/10.1016/S0305-750X\(02\)00218-8](https://doi.org/10.1016/S0305-750X(02)00218-8)
- Ylvén R, Björck-Åkesson E, Granlund M. 2006. Literature review of positive functioning in families with children with a disability. *Journal of Policy and Practice in Intellectual Disabilities* **3**(4): 253–270. <https://doi.org/10.1111/j.1741-1130.2006.00089.x>