AN ASSESSMENT OF HOME ACCIDENTS AMONG UNDER FIVE CHILDREN IN MADAGALI LOCAL GOVERNMENT AREA OF ADAMAWA STATE '

Amodu MO, Yahya SJ, Bolori MT, **Bello M

*Department of Community Medicine, University of Maiduguri. **Department of Paediatrics, University of Maiduguri.

Correspondence and reprint request to: Bolori MT, Department of Community Medicine University of Maiduguri P.M.B 1069 Maiduguri, Borno State. Phone: 08032512047, eMail: mtbolori@yahoo.com

ABSTRACT

Background: Domestic accidents occur at all ages but the very young and very old are especially susceptible, (children being particularly more susceptible). Young children are naturally curious and explore, and this makes them vulnerable to risks and accidents. Objective: To assess the prevalence of domestic accidents among under five (U5) children in Madagali local government area of Adamawa state and to determine treatment options and outcome of such options.

Method: A cross sectional descriptive study was conducted from January to February, 2009 using a pre-tested validated questionnaire to collect data. Four hundred questionnaires were administered, the respondents were selected using multistage sampling methods and data was analyzed using Epi Info tm version 3.3.2 software 2001.

Results: One hundred and sixty one of respondents (40.25%) admitted that there were many cases of accidents in their homes and that boys were the most affected. Animal and insect bites were the commonest accidents encountered with 47 cases (29.2%). Out of the total home accidents recorded, 107 (66.5%) sought for orthodox treatment accounting for significant number of hospital visits. A few cases of animal bites were treated traditionally.

Conclusion: Home accidents among under fives cause significant moroidity and mortality in the communities. Steps such as health education should be carrie Lout within the LGA to prevent such occurrences to promote the health status within the rea.

Keywords: Child, Home accidents, Madagali.

INTRODUCTION

Home/domestic accidents occur among all age second year of life.2 groups but those at extremes of life are Home accident is an unexpected and particularly more vulnerable. Children are undesirable event, especially one resulting in expose them to hazard and accidents.1 The and/ormind. maximum number of accidents occurred in the

especially more vulnerable because in addition damage or harm at home and its surroundings.2 to their lack of coordination and the inability to It is independent of the will of man caused by a avoid or escape danger, they are also more quickly acting extraneous force and curious to explore into situations that may manifesting itself by an injury to the body

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accidents in the united States according to U.S Love initiative".7 Home safety Council.4 The importance of accidents include death, incapacitation and The National Action Plan, Child Injury which is further compounded by negligence or effort to reduce child injury.8 ignorance on the parts of the parents and caregivers.

wishes.

and under. Young kids have the highest risk of global control of this problem. being injured at home because that's where they spend most of their time.5

child having an accident. Some happen due to Gwoza local government area to the south and change in routine. Distractions and poor the Republic of Cameroon to the east. supervision are often other causes of accidents. Childhood accidents are also closely linked Using cross sectional descriptive study design with social deprivation. Children from poorer 400 randomly selected caregivers of U-5

The peak age for domestic accidents is the In an effort to raise parents' awareness about second year of life.² Accident is the main cause the leading cause of child injury in the United of injury and even death in children.3 Every States and they can be prevented, the centers year nearly 20,000 people die and 21,000,000 for disease control and prevention (CDC) has medical visits are needed due to home launched the project "Protect the Ones You

economic involvement. The immediate Prevention was developed by CDC as follows: environment of a child is the home and its Raise awareness about the problem of child environment (or surrounding). The age of the injury and the effects, Highlight prevention child makes them susceptible to accidents, solutions, mobilize action on a coordinated

A home accident especially among the vulnerable under five populations is a global Young children exhibit negativism and older problem that requires concerted action. children may have suppressed hostility However, there is lack of documentation and/ towards their parents, which leads them to or action plan to map and address the menace incur risks in deliberate defiance of parental in Nigeria especially in the hilly and difficult terrain of the north-eastern Nigeria. Against this background this study was planned to The common causes of home accidents and determine the prevalence and treatment deaths according to the Centre for Disease seeking options for home accidents among Control and Prevention (CDC) are fire and under five children in Madagali local burns, suffocation, drowning, falls, and government area, and also to determine electrocution.34 Home injuries are one of the outcomes of the selected options. The findings top reasons kids under age 3 visit the ER, and from this study would be useful policy makers nearly 70% of the children who die from and programme managers in Nigeria in the unintentional injuries at home are 4 years old mapping and designing strategies for the

MATERIALS AND METHOD

Madagali (with coordinates 10°44'N and Most accidents occur between late afternoon 13°25'E) is a local government area which was and early evening in summer during school created out of Adamawa State Nigeria when and at weekends. Factors such as stress, death Taraba State was separated from former in the family. Chronic illness homelessness, or Gongola State in 1991. It borders with Michika moving home, increases the likelihood of the town to the north, Askira Uba to the west,

background are five times more likely to die as children in Madagali LGA were examined over a result of accident than children from better off eight weeks (within January and February 2009). The sample size was determined using the formula for calculating minimum sample size for descriptive studies [Z² X p x q/d²] and a prevalence p was obtained from a past study. The respondents were selected using a multistage sampling methods. For convenience the study was done in the local government headquarter (Michika) which was selected by balloting out of all the local government headquarters of Adamawa state in the first stage. In the second stage a ward was selected by balloting within Michika town. The respondents were selected by visiting them in their households. Direction of movement of interviewer was determined by a pen spun in the air and allowed to fall freely on the ground.

The closest street pointed by the tip of the pen was accepted as the direction of movement to select every fifth household until all the questionnaires were filled. At the end of each selected street the next nearest street was selected for continuation. In each household only one child caretaker or mother was interviewed. Questionnaire was administered on a respondent only after thorough explanation and his/her informed consent obtained. The respondents were assured of the confidentiality of the information gathered from them. Data was collected using pretested interviewer administered questionnaires. Analysis of the data was by use of Epi Info VERSION 3.3.2 computer software.

RESULTS

Table 1: Socio-demographic characteristics of caregivers

	Frequency	Percentage
Gender		
Male	77	19.2
Female	323	80.8
Tribe		
Kanuri	4	1.0
Marghi	197	49.2
Shuwa	44	11.0
Fulani	154	38.5
Others	1	0.2

Religion		
Islam	125	31.2
Christianity	275	68.8
Occupation		
Farming	232	58.0
Fishing	6	1.5
Trading	70	17.5
Others	92	23.0

The caregivers interviewed were mothers (298, 74.5%), fathers (76, 19.2%), grandmothers (12, 3.0%), grandfather (1, 0.2%) and others (7, 1.8%). Majority of the respondents (182, 45.5%) did not receive any form of education. One hundred and seventy four (25.6%) received western education out of which a third had reached tertiary level. The remaining (44, 11.0%) had only Islamic education.

Most of the cases of accidents occurred among boys, probably due to the facts that boys are more adventurous and more curious than their female counterparts. In this study, one hundred and sixty one i.e. 40.3% of the respondents admitted that they had home accidents in the previous years, see table 2.

Table 2: Occurrence of home accidents according to sex among children below 5 years.

Gender Male	Frequency	Percentage (%)
Accident No Accident Female	103 125	25.75 31.25
Accident No Accident Total	58 114 400	14.50 28.5 100

Of these, animals and insects bites accounted for forty seven (29.2%) of the cases.

This could be attributed to the poor sanitary condition of the home environment and

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out of harm's way every second of the day. from: However, the local government chairman with the help of the state and federal government responsible to see that all the measures to be 6. taken to avoid home accidents are enforced.

REFERENCES

- 1. First and Safety Child proofing and preventing household accidents. [Online]. 1995 [cited on 2010 Jan 01]; Available from: 7. http://kidshealth.org/parent/firstaid_ safe/index.html
- 2. The American Heritage, Dictionary of the English language, 4th Ed. [Online]. Houghton Mifflin Company. 2000. [Cited on 2010 Jan 01]; Available from: http://www.thefreedictionary.com/ac cident.
- 3. Cronan K. Kidshealth: Childproofing and Preventing Household Accident. [Online] 2007[Cited on 2013 Dec. 9]; Available from: http://WWW.childrens Colorado.org/wellness/info/parents.
- 4. The Top-6-Accidents Waiting to Happen in Your Home. [Online]. 2009. [Cited on 2010 Jan 01]; Available from: http.www.sixwise.com/newsletters.
- 5. Kidshealth. Child proofing and preventing household accidents. [Online]2010[cited on Jan 01]; Available

- http://kidshealth.org/parent/firstaid_ safe/home/childproof.html.
- Royal Society for the Prevention of Accidents. Accidents to children. [Online]2009[Cited 0n 2010 Jan 01]; from: Available http://www.rospa.com/homesafety/a dviceandinformation/childsafety/acci dents-to-children.aspx
- Home Accident Prevention for Children. [Online]. 2010 [Cited on 2010 APR 01]; Available from: http://www.hkfsd.gov.hk/home/eng /source/safety/Children_home_accid ent.html
 - 8. Onadeko, M.O "Domestic Accidents among Rural and urban children in Nigeria". Nigeria Journal of Paediatrics 1983; 10: 23 – 27.
 - 9. Araoye MA. Sample size estimation, Research methodology with statistics for health and social sciences.1st edition. Ilorin (Nigeria): Nathadex Publishers: 2003. P.115-121,140-147.
 - 10. Carter YH, Jones PW. Accidents among children under five years old: A general practice based study in north Staffordshire. Br J Gen Pract. 1993 April; 43(369): 159-163.