Home first aid applied by the mother for the treatment of food poisoning for children

Ali D. Abbas

Fundamentals of Nursing Department, College of Nursing, University of Baghdad, Baghdad, Iraq Email: ali_dukhan@yahoo.com, alidukhan@uob.edu.iq

Received 29 July 213; revised 21 September 2013; accepted 15 October 2013

Copyright © 2013 Ali D. Abbas. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited.

ABSTRACT

Objective(s): The objectives of this study are to assess first aid home for the treatment of food poisoning among children by mother and to find out the relationship between first aid home for the treatment of food poisoning and the demographic characteristics including age of mother, level education of mother, mother's occupation, and family's income. Methodology: A descriptive analytical study was conducted on mother who applied home first aid for the treatment of food poisoning in her children. The study was conducted at the emergency unit in Children Welfare Teaching Hospital and Child's Central Teaching Hospital. Starting from 2nd Dec. 2012 up to the 15th Apr. 2013. To achieve the objectives of the study, a non-probability (purposive) sample of (60) mother reviewed the emergency unit for the treatment of food poisoning in her child suffering from food poisoning and according to special criteria. Data were collected by interview with mother of the child suffering from food poisoning. Instrument validity was determined through content validity, by a panel of experts. Reliability of the instrument was determined through the use of Pearson correlation coefficient for the test-retest approach, which was 0.85. Analysis of data was performed through the application of descriptive statistics (frequency, percentage, and mean of score) and inferential statistics (correlation coefficient and one-way analysis of variance). Results: The results of the study indicated the level mean of scores related to first aid procedures relating to situations that food poisoning when the poisoning occurs and applied by mother was moderate level on half items and high level on half other from items. Conclusion: The study concluded most of mothers don't have prior knowledge of the procedures used for ambulance cases of food poisoning in children. Recommendations: The study recommend the need to set up educational sessions for

families especially the mother about how to first aid food poisoning in children and guide booklets or information sheet should be printed and distributed to mothers and families about food poisoning and first aid it, and these booklets or information sheet should be written in a simple style and handed out freely.

Keywords: Food Poisoning; Microbial Agents; Cross Contamination; World Health Organization

1. INTRODUCTION

Food poisoning includes ill effects caused by the ingestion of contaminated food by many ways apart from microbial agents. They may be

1) Through the addition of proteins,

2) Through eating of inherent poisonous substance such as certain mushrooms, fish and molluscs by mistake,

3) Adulteration of food with poisonous substance such as *Argemone mexicana* in mustard producing epidemic dropsy.

The term "food poisoning" is however restricted only to acute gastroenteritis due to bacterial pollution of food or drink. The term "food-borne" disease is defined as "A disease, usually either infectious or toxic in nature, caused by agents that enter the body through the ingestion of food" [1].

Food poisoning is a serious health problem. It can cause severe illness and even death. Food poisoning is frequently caused by bacteria from food that has been poorly handled, stored or cooked.

Each year thousands of people suffer from food poisoning. Eating or drinking contaminated food causes food poisoning. The food may be contaminated with bacteria, viruses or toxins. The most commonly reported types of food poisoning in this country are caused by Campylobacter and Salmonella bacteria [2].

Anyone can get food poisoning, but babies and tod-

Scientific Research

dlers are at especially high risk and once they become infected, young children can have a hard time getting well. Serious complications may develop, resulting in hospitalizations, lifelong health problems, and even death.

The World Health Organization (WHO) reports that each year two billion illnesses are caused by unsafe food; globally this number is growing.

In Asia, 700,000 people die each year as a result of food poisoning illnesses. Each year in the developing world, diarrhea illness from contaminated food and water causes 2 million deaths in young children. Most of these problems could be prevented with better science, prevention tools and by practicing good food hygiene [3].

Children tend to eat junk food in school, due to the appealing and mouth-watering aroma, and these foods that are showcased in the attractive way tend to entice school children. The coming-up of supermarkets and departmental stores has led to an increase in the quality of food supply, but people are still careless in the way they consume food. As a result, food poisoning occurs. Children suffer most on account of their weak immune system and unhealthy food habits.

Children should be warned against consuming foods, such as mushroom and seafood, which may cause food poisoning. Precaution should always be taken while preparing food. Food should be well-cleaned and well-cooked. Food poisoning can only be prevented by inculcating the right food habits in children [4].

2. METHODOLOGY

2.1. Objective of the Study

The study objectives are to assess first-aid home for the treatment of food poisoning among Children by mother and to find out the relationship between first-aid home for the treatment of food poisoning and the demographic characteristics include (age of mother, level education of mother, mother's occupation, and family's income).

2.2. Design of the Study

A descriptive analytical study was conducted on mother who applied home first aid for the treatment of food poisoning in her children.

2.3. Setting of the Study

The study was conducted in emergency unit at two Teaching Hospitals in Baghdad city (Children Welfare Teaching Hospital and Child's Central Teaching Hospital) that reviewed by family of child suffering from food poisoning, especially the mother of child.

2.4. Sample of the Study

A non-probability (purposive) sample of (60) mother

reviewed the emergency unit for the treatment of food poisoning in her child suffering from food poisoning according to the following criteria:

1) Children diagnosis with food poisoning and bring to emergency unit by mother.

2) Children with different age.

2.5. Instrument Construction

After extensive review of relevant literature, studies, the researcher constructed the questionnaire and was used as mean of data collection. It was comprised of three major parts.

2.5.1. Part I: Demographic Characteristics

The first part concerned with determination of the demographic characteristics through designated sheet which include seven items (mother's age, educational level of the parents, age of the child during the injury with food poisoning, gender of the child, working status of the mother, monthly a family income, ownership housing).

2.5.2. Part II: Information about the Status of Food Poisoning

This part is concerned with the Information related to status of food poisoning that consist from (8) items.

2.5.3. Part III: First-Aid Procedures Relating to Situations Food Poisoning when the Poisoning Occurs

This part is concerned with the first-aid procedures relating to situations food poisoning when the poisoning occurs that consist from (14) items. The items were ordinal according to the two level scale which were scored as (No = 1, and Yes = 2) for each level respectively so the cutoff point was (2).

2.6. Validity of the Instrument

Content validity was determined through the use of panel of experts.

2.7. Reliability of the Instrument

Pilot study was carried out between the 2nd to 31st of Dec. 2012. On (5) mothers who reviewed the emergency unit for the treatment of food poisoning in her child who suffering from food poisoning by the researcher who used test-retest; "twice within two weeks" person correlation coefficient was computed for each determination. The results indicated that the correlation coefficient was r = 0.85 at the level ($P \le 0.01$) which was statistically acceptable [5].

2.8. Data Collection

The data were collected by interview with mother of the

teristics

child who suffering from food poisoning for the period from 13th Jan. to 4th Apr. 2013.

2.9. Statistical Data Analysis

Appropriate statistical approach is used that includes descriptive statistics (frequency, percentage, mean of score) and (correlation coefficient and one-way analysis of variance).

3. RESULTS

This table (**Table 1**) reveals that the majority (46.7%) of Age of the mother were (27 - 36) years old. (31.7%) were graduated from intermediate School. The majority (51.7%) of age of the child during the injury with food poisoning were (2 - 4) years old. (53.3%) were female. Concerning working status of the mother (65%) wasn't working. In relation to monthly a family income (53.3%) was adequate. (41.7%) of ownership housing was property.

This table (**Table 2**) indicates that the majority (65%) of mother have knowledge about signs and symptoms of food poisoning. While (53.3%) of family members don't have prior knowledge of the procedures used for ambulance cases of food poisoning in children. (70%) of mother say the procedure followed in the ambulance food poisoning was appropriate. (51.7%) of the procedure followed in the ambulance food poisoning was directly in the house. (80%) of child with food poisoning suffering don't have another disease.

The findings of this table (**Table 3**) indicated that the majority (45%) of food poisoning was from eating packaged food.

The finding of this table (**Table 4**) show that the majority (36.7%) of food poisoning was contains Plant and animal toxins.

The finding of this table (**Table 5**) revealed that the majority (35%) of child during the injury with food poisoning the level of conscious was confounded.

The findings of this table (**Table 6**) indicated that the level of mean of score was moderate on item (1, 2, 8, 9, 11, 12, and 14), while items (3, 4, 5, 6, 7, 10, and 13) was high.

The findings in this table (**Table 7**) indicate that there are no significant difference between (age of mother, level education of mother, mother's occupation, and family's income) and First-aid procedures relating to situations food poisoning when the poisoning occurs by mother for her child at ($P \le 0.05$).

4. DISCUSSION

Through the data analysis distribution of demographic variables **Table 2** reports that most of the mother's children are (27 - 36) years old and this account for 28 (46.7%) of the sample.

1. Age of the mother (years) F % 1.1. 17 - 26 15 25 1.2. 27 - 36 28 46.7 1.3. 37 - 46 16 26.7 1.4. 47 and more 1 1.7 Total 60 100 2. Educational level of the mother F % 2.1. Illiterate 1 1.7 2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4.	No.	Variables		
$1.2.$ $27 \cdot 36$ 28 46.7 $1.3.$ $37 \cdot 46$ 16 26.7 $1.4.$ 47 and more 1 1.7 Total 60 100 $2.$ Educational level of the mother F $\%$ $\%$ 1 1.7 $2.$ Able to read and write 1 1.7 $2.3.$ Primary School graduate 10 $2.4.$ Intermediate School graduate 19 $2.5.$ High School graduate 14 23.3 $26.$ Institute and College graduate 15 $25.$ Total 60 100 $3.$ Age of the child during the injury with food poisoning (years) F $3.1.$ $2 \cdot 4$ 31 51.7 $3.2.$ $5 \cdot 7$ 21 35 $3.3.$ $8 \cdot 10$ 8 13.3 Total 60 100 $4.$ Gender of the child F $4.1.$ Male 28 46.7 $4.2.$ Female 32 53.3 $5.3.$ Not working 39 65 $5.4.$ Not working 39 65 $5.2.$ Not working 39 65 $5.3.$ Not working 39 65 $6.1.$ Adequate 32 53.3 $6.2.$ Not adequate 28 46.7 $7.$ Ownership housing F $\%$ $7.$ Ownership housing F $\%$ $7.$ Rent 18 30 $7.2.$ <td>1.</td> <td>Age of the mother (years)</td> <td>F</td> <td>%</td>	1.	Age of the mother (years)	F	%
1.3. $37 - 46$ 16 26.7 1.4. 47 and more 1 1.7 Total 60 100 2. Educational level of the mother F % 2.1. Illiterate 1 1.7 2.2. Able to read and write 1 1.7 2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 5.1.<	1.1.	17 - 26	15	25
1.4. 47 and more 1 1.7 Total 60 100 2. Educational level of the mother F % 2.1. Illiterate 1 1.7 2.2. Able to read and write 1 1.7 2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 6 5. Working status of the m	1.2.	27 - 36	28	46.7
Total 60 100 2. Educational level of the mother F % 2.1. Illiterate 1 1.7 2.2. Able to read and write 1 1.7 2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 5.1 Working 39 65 5.	1.3.	37 - 46	16	26.7
2. Educational level of the mother F % 2.1. Illiterate 1 1.7 2.2. Able to read and write 1 1.7 2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. 4.1 Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 39 65 52. Not working 39 65 5.2. Not working 39<	1.4.	47 and more	1	1.7
2.1.Illiterate11.72.2.Able to read and write11.72.3.Primary School graduate1016.72.4.Intermediate School graduate1931.72.5.High School graduate1423.32.6.Institute and College graduate1525Total601003.Age of the child during the injury with food poisoning (years)F%3.1. $2 \cdot 4$ 3151.73.2. $5 \cdot 7$ 21353.3. $8 \cdot 10$ 813.3Total601004.Gender of the childF%4.1.Male2846.74.2.Female3253.3Total601005.Working status of the motherF%5.1.Working21355.2.Not working3965Total601006.Monthly a family incomeF%6.1.Adequate3253.36.2.Not adequate2846.77.0Ownership housingF%7.1.Rent18307.2.Property2541.7		Total	60	100
2.2. Able to read and write 1 1.7 2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 39 65 Total 60 100 6 100 6. Monthly a family income F % 6.1.	2.	Educational level of the mother	F	%
2.3. Primary School graduate 10 16.7 2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 39 65 Total 60 100 6 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2 Gow and the a	2.1.	Illiterate	1	1.7
2.4. Intermediate School graduate 19 31.7 2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F 5.1. Working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 7 Ownership housing F %	2.2.	Able to read and write	1	1.7
2.5. High School graduate 14 23.3 2.6. Institute and College graduate 15 25 Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 39 65 Total 60 100 6 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 6.1. Adequate 32 53.3 6.2. Not adequate 28 <	2.3.	Primary School graduate	10	16.7
2.6.Institute and College graduate1525Total601003.Age of the child during the injury with food poisoning (years)F%3.1.2 - 43151.73.2.5 - 721353.3.8 - 10813.3Total601004.Gender of the childF%4.1.Male2846.74.2.Female3253.3Total601005.Working status of the motherF%5.1.Working21355.2.Not working3965Total601006.Monthly a family incomeF%6.1.Adequate3253.36.2.Not adequate2846.77.Ownership housingF%7.1.Rent18307.2.Property2541.7	2.4.	Intermediate School graduate	19	31.7
Total 60 100 3. Age of the child during the injury with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 6 7. Ownership housing F % <td< td=""><td>2.5.</td><td>High School graduate</td><td>14</td><td>23.3</td></td<>	2.5.	High School graduate	14	23.3
3.Age of the child during the injury with food poisoning (years)F% $3.1.$ $2 - 4$ 31 51.7 $3.2.$ $5 - 7$ 21 35 $3.3.$ $8 - 10$ 8 13.3 Total 60 100 $4.$ Gender of the childF% $4.1.$ Male 28 46.7 $4.2.$ Female 32 53.3 Total 60 100 $5.$ Working status of the motherF $5.1.$ Working 21 35 $5.2.$ Not working 39 65 Total 60 100 $6.$ Monthly a family incomeF% $6.1.$ Adequate 32 53.3 $6.2.$ Not adequate 28 46.7 Total 60 100 $7.$ Ownership housingF% $7.1.$ Rent 18 30 $7.2.$ Property 25 41.7	2.6.	Institute and College graduate	15	25
5. with food poisoning (years) F % 3.1. 2 - 4 31 51.7 3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7		Total	60	100
3.2. 5 - 7 21 35 3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 22 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	3.		F	%
3.3. 8 - 10 8 13.3 Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	3.1.	2 - 4	31	51.7
Total 60 100 4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	3.2.	5 - 7	21	35
4. Gender of the child F % 4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	3.3.	8 - 10	8	13.3
4.1. Male 28 46.7 4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7		Total	60	100
4.2. Female 32 53.3 Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	4.	Gender of the child	F	%
Total 60 100 5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	4.1.	Male	28	46.7
5. Working status of the mother F % 5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	4.2.	Female	32	53.3
5.1. Working 21 35 5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7		Total	60	100
5.2. Not working 39 65 Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	5.	Working status of the mother	F	%
Total 60 100 6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	5.1.	Working	21	35
6. Monthly a family income F % 6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	5.2.	Not working	39	65
6.1. Adequate 32 53.3 6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7		Total	60	100
6.2. Not adequate 28 46.7 Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	6.	Monthly a family income	F	%
Total 60 100 7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	6.1.	Adequate	32	53.3
7. Ownership housing F % 7.1. Rent 18 30 7.2. Property 25 41.7	6.2.	Not adequate	28	46.7
7.1. Rent 18 30 7.2. Property 25 41.7		Total	60	100
7.2. Property 25 41.7	7.	Ownership housing	F	%
1 2	7.1.	Rent	18	30
7.3. Land for 6 10	7.2.	Property	25	41.7
	7.3.	Land for	6	10
7.4. Exceed 11 18.3	7.4.	Exceed	11	18.3
Total 60 100		Total	60	100

Table 1. Distribution of sample by their demographic charac-

F = frequency, % = percentage.

This result is similar to the results obtained from studies done by Logan, (2012). These results indicate that the majority of mother's children ages are early adulthood [6].

Table 2. Information about the status of food poisoning.

No.	Items		Yes		No		Total	
	liems —			F	%	F	%	
1.	Do you have knowledge of signs and symptoms of food poisoning?	39	65	21	35	60	100	
2.	Does the family members prior knowledge of the procedures used for ambulance cases of food poisoning in children?	28	46.7	32	53.3	60	100	
3.	Is the procedure followed in the ambulance food poisoning was appropriate?	42	70	18	30	60	100	
4.	Is the procedure followed in the ambulance food poisoning was directly in the house?	31	51.7	29	48.3	60	100	
5.	You had a child with food poisoning suffering from another disease?	12	20	48	80	60	100	

F = frequency, % = percentage.

Table 3. Source of food poisoning in children.

No.	Source	F	%
1	Eating food prepared in the home	12	20
2	Eating food prepared outside the home	21	35
3	Eating packaged food	27	45
	Total	60	100

F = frequency, % = percentage.

Table 4. Contains of food poisoning.

No.	Source	F	%
1.	Chemicals	19	31.7
2.	Plant and animal toxins	22	36.7
3.	Proliferation of micro-organisms	19	31.7
	Total	60	100

F = frequency, % = percentage.

Regarding educational level of the mother the majority of sample which account 19 (31.7%) were graduated from intermediate School. This finding is similar to the results obtained from study done by Smith, (1998) [7].

Concerning the age of the child during the injury with food poisoning 31 (51.7%) were (2 - 4) years old. These findings are supported by Jacobs, (2001) [8].

With regard to gender of the child 32 (53.3%) were female. This finding is similar to the results obtained from study done by Scallan, *et al.*, (2012) [9].

Concerning working status of the mother 39 (65%) wasn't working. In relation to monthly a family income 32 (53.3%) was adequate. 25 (41.7%) of ownership housing was property.

These results disagree with study done by Anderson, (2004) that indicate working status of the mother (80%) was working. monthly a family income (65.3%) was not adequate. (55%) of ownership housing was property [3].

Table 3 indicates that the majority (65%) of mother have knowledge about signs and symptoms of food poisoning. While (53.3%) of family members don't have prior knowledge of the procedures used for ambulance cases of food poisoning in children.

Table 5. Level of conscious of the child during the injury withfood poisoning.

No.	Source	F	%
1.	Conscious	17	28.3
2.	Confounded	21	35
3.	Delirium	3	5
4.	Sleepy	10	16.7
5.	Stupor	3	5
6.	Unconscious	6	10
	Total	60	100

F = frequency, % = percentage.

These results disagree with study done by Malek, *et al.*, (2005) that indicated (80%) of mother has knowledge about signs and symptoms of food poisoning, and (82%) of family members have prior knowledge of the procedures used for ambulance cases of food poisoning in children [10].

(70%) of mother say the procedure followed in the ambulance food poisoning was appropriate. (51.7%) of the procedure followed in the ambulance food poisoning was directly in the house. (80%) of child suffering from food poisoning don't have another disease.

This result is supported by Gianella, (2006); they indicate that the majority of mother says the procedure followed in the ambulance food poisoning was appropriate and the procedure followed in the ambulance food poisoning was directly in the house. However (40%) of child suffering from food poisoning have another disease [11].

Table 4 indicated that the majority 27 (45%) of food poisoning was from eating packaged food. The result of present study agrees with study done by Doheny, (2013) that indicated the majority of food poisoning was from eating [12].

Table 5 show that the majority 22 (36.7%) of food poisoning was contains Plant and animal toxins. The result of present study disagrees with study done by Newell, *et al.*, (2010) that indicated the majority of food poisoning was contains chemicals toxins [4].

No.	Items	Yes			No		
		F	%	F	%	MS	Level
1	Are summits to make sure of the symptoms and signs of food poisoning by ambulance injured child?	40	66.66	20	33.33	1.66	М
2	Are summits calling allocated for emergency evacuated to the hospital?	23	38.33	37	61.66	1.38	М
3	Are summits to maintain airway and breathing for a child who suffers?	52	86.66	8	13.33	1.86	Н
4	Are summits to provide sufficient comfort for the injured child?	59	98.33	1	1.66	1.98	Н
5	Are summits Give adequate amounts of fluid for a child who suffers?	54	90	6	10	1.9	Н
6	Are summits to prevent solid foods for a child with?	46	76.66	14	23.33	1.76	Н
7	Are summits to prevent fried foods, fatty and sugary injured child?	51	85	9	15	1.85	Н
8	Are summits to prevent drinks containing caffeine for a child with?	43	71.66	17	28.33	1.71	М
9	Are summits using tea with lemon and ginger to relieve the symptoms of food poisoning for a child who suffers?	31	51.66	29	48.33	1.51	М
10	After controlling nausea and vomiting Give Food Summits fat-free light for a child who suffers?	50	83.33	10	16.66	1.83	Н
11	Are summits giving the anti-diarrhea medicine for a child who suffers?	35	58.33	25	41.66	1.58	М
12	Are summits given the drugs for nausea and vomiting for a child who suffers?	36	60	24	40	1.6	М
13	Are summits Give antipyretic drugs for a child who suffers?	47	78.33	13	21.66	1.78	Н
14	Are summits Give rehydration solution (perfusion oral) when continued vomiting and diarrhea for more than 24 hours?	40	66.66	20	33.33	1.66	М

Table 6. The mean of scores and level mean of scores related to First-aid procedures relating to situations food poisoning when the poisoning occurs and applied by mother.

F = frequency, % = percentage, MS = Mean of Score, M = Moderate, H = High.

Table 7. Analysis of variance for the difference between demographic characteristics and First-aid procedures relating to situations food poisoning when the poisoning occurs by mother for her child.

Demographic characteristics	Source of variance	Sum of Squares	df	Mean Square	F	Sig.
	Between Groups	3.932	8	0.491	.811 0.596	0.596
Age of mother	Within Groups	30.918	51	0.606	.011	0.390
	Total	34.850	59			
	Between Groups	10.087	8	1.261	.882	0.538
Level education of mother	Within Groups	72.896	51	1.429	.002	0.558
	Total	82.983	59			
	Between Groups	1.611	8	0.201	.853	
Mother's occupation	Within Groups	12.039	51	0.236		0.561
	Total	13.650	59			
	Between Groups	1.341	8	0.168	.629	
Family's income	Within Groups	13.593	51	0.267	.029	0.750
	Total	14.933	59			

df = Degree of freedom, F = F-statistics, Sig. = level of Significance.

Table 6 revealed that the majority 21 (35%) of child during the injury with food poisoning the level of conscious was confounded. This result agrees with results done by Sodha, *et al.* (2010) which indicated the majority of child during the injury with food poisoning the level of conscious was confounded [13].

The study shows the level of mean of score was moderate on item (Are summits to make sure of the symptoms and signs of food poisoning by ambulance injured child? Are summits calling allocated for emergency evacuated to the hospital? Are summits to prevent drinks containing caffeine for a child with? Are summits using tea with lemon and ginger to relieve the symptoms of food poisoning for a child who suffers? Are summits giving the anti-diarrhea medicine for a child who suffers? Are summits given the drugs for nausea and vomiting for a child who suffers? And are summits Give rehydration solution (perfusion oral) when continued vomiting and diarrhea for more than 24 hours?).

While items (Are summits to maintain airway and breathing for a child who suffers? Are summits to provide sufficient comfort for the injured child? Are summits Give adequate amounts of fluid for a child who suffers? Are summits to prevent solid foods for a child with? Are summits to prevent fried foods, fatty and sugary injured child? After controlling nausea and vomiting Give Food Summits fat-free light for a child who suffers? And are summits Give antipyretic drugs for a child who suffers?) was high in **Table 6**.

This result agrees with results obtained from study done by Longphre, *et al.* (2007) which indicated that most of items related to First-aid procedures relating to situations food poisoning when the poisoning occurs was moderate level mean of scores [14].

Analysis of the result of the study shows that there are no significant difference between (age of mother, level education of mother, mother's occupation, and family's income) and First-aid procedures relating to situations food poisoning when the poisoning occurs by mother for her child at ($P \le 0.05$) in **Table 7**.

This result disagrees with study done by Craig, and Zich, (2009), which showed that there is significant relationship between level education of mother and First aid procedures relating to situations food poisoning when the poisoning occurs by mother for her child [15].

5. CONCLUSION

The study concluded most of mothers don't have prior knowledge of the procedures used for ambulance cases of food poisoning in children.

6. RECOMMENDATIONS

1) Health education with focusing on the effect of food poisoning and how to first aid it through TV programs, radio, newspaper, and medical magazines, etc. should be increased

2) Educational sessions for families especially the mother about how to first aid food poisoning in children should be setting up.

3) Guide booklets or information sheet should be printed and distributed to mothers and families about food poisoning and first aid it, and these booklets or information sheet should be written in a simple style and handed out freely.

7. ACKNOWLEDGEMENTS

Before all, greatest thanks to "God" the Glorious, the Merciful, and the

Compassionate. I wish to express my deepest and grateful thanks and gratitude to Dr. Rabia M. Ali the dean of the College of Nursing University of Baghdad for his kindness and support.

REFERENCES

- Vijaya, K. (2008) Food microbiology ramesh. MJP Publishers, Chennai.
- [2] U.S. Department of Agriculture Food Safety and Inspection Service (2006) Fact sheet. Safe food handling: Basics for handling food safely.
- [3] Anderson, W. (2004) Food-borne and water-borne diseases. In: Tintinalli, J.E., Ed., *Emergency Medicine: A Comprehensive Study Guide*. 6th Edition, McGraw-Hill, New York, 964-969.
- [4] Newell, D., et al. (2010) Food-borne diseases—The challenges of 20 years ago still persist while new ones continue to emerge. International Journal of Food Microbiology, 139, S3-S15. http://dx.doi.org/10.1016/j.jjfoodmicro.2010.01.021
- [5] Bedworth, A. (1995) The profession and practice of health education. W.N.C. Brown Publishers, St. Louis, 304-306.
- [6] Logan, N. (2012) Bacillus and relatives in foodborne illness. *Journal of Applied Microbiology*, **112**, 417-29.
- [7] Smith, J. (1998) Foodborne illness in the elderly. *Journal* of Food Protection, **61**, 1229-39.
- [8] Jacobs, R. (2001) General problems in infectious diseases: acute infectious diarrhea. In: Tierney Jr., L.M., McPhee, S.J. and Papadakis, M.A., Eds., *Current Medical Diagnosis and Treatment*, 40th Edition, McGraw-Hill, New York, 1215-1216.
- [9] Scallan, E, et al. (2012) Foodborne illness acquired in the United States—Major pathogens. *Emerging Infectious Diseases*, 17, 7-15.
- [10] Malek, M., et al. (2009) Outbreak of norovirus infection among river rafters associated with packaged delicatessen meat, Grand Canyon, 2005. *Clinical Infectious Diseases*, 48, 31-37.
- [11] Gianella, R. (2006) Infectious enteritis and proctocolitis and bacterial food poisoning. *Sleisenger and Fordtran's Gastrointestinal and Liver Disease*, 2, 2333-2391.
- [12] Doheny, K. (2013) Most common foods for foodborne illness: CDC report. Medscape Medical News, January 30.
- [13] Sodha, S., et al. (2010) Foodborne disease. In: Mandell, G.L., et al., Eds., Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases, 7th Edition, Churchill Livingstone Elsevier, Philadelphia, 413-1427
- [14] Longphre, J. (2007) First aid normobaric oxygen for the treatment of recreational diving injuries. *Undersea and Hyperbaric Medicine*, **34**, 43-49.
- [15] Craig, S. and Zich, D. (2009) Gastroenteritis. In: Marx, J.A., Ed., *Rosen's Emergency Medicine: Concepts and Clinical Practice*. 7th Edition, Mosby Elsevier, Philadelphia, chap 92.