

Knowledge on Prevention and Management of Anaemia among Adolescent Girls

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Abstract

Anaemia is a condition in which the number of red blood cells and consequently their oxygen-carrying capacity is insufficient to meet all the body's physiologic needs which are vary with a person's age, gender, altitude, smoking and different stages of pregnancy. Iron deficiency is thought to be the most common cause of anaemia globally, but some other nutritional deficiencies (including folate, vitamin B12 and vitamin A), acute and chronic inflammation, parasitic infections, and inherited or acquired disorders can cause anaemia. *Methodology:* Quantitative non-experimental Descriptive research design was used. The targeted population is adolescent girls age group (12-19 years). 60 subjects were collected using convenient sampling technique. The tool used to collect data is structured questionnaire prepared by the researcher. *Result:* Out of 60 subjects, majority of them 53.3% has average knowledge on prevention and management of anaemia, 36.7% of them had good knowledge and 10% of them had poor knowledge. There was statistically significant association between the level of knowledge with selected demographic variables as age at $p > 0.05$ level. *Conclusion:* Therefore the findings of the study revealed that knowledge regarding prevention of anaemia among adolescent girls were at average level. It revealed that the role of community health nurse plays vital role in promoting the level of knowledge on prevention and management of anemia among adolescent girls to rule out anemia.

Keywords: Anaemia; Pregnancy; Adolescent.

Introduction

Iron deficiency is thought to be the most common cause of anaemia globally, but some other nutritional deficiencies (including folate, vitamin B12 and vitamin A), acute and chronic inflammation, parasitic infections, and inherited or acquired disorders can cause anaemia.¹ Blood is

comprised of two parts: A liquid called the plasma and a cellular part. The cellular part contains several different cell types. One of the most important and the most numerous cell types are red blood cells.³ The other cell types are the white blood cells and platelets. Only red blood cells are discussed in this article. The purpose of the red blood cell is to deliver oxygen from the lungs to other parts of the body. Red blood cells are



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produced through a series of complex and specific steps.² They are made in the bone marrow (inner part of the femur and pelvic bones that make most of the cells in the blood), and when all the proper steps in their maturation are complete, they are released into the blood stream.¹

Statement of The Problem

A study to assess the level of knowledge on prevention and management of anaemia among adolescent (12–19 years) girls in selected area Puducherry.

Objectives

- To assess the level of knowledge on prevention and management of anaemia among adolescent girls.
- To associate the level of knowledge on

anaemia among adolescent girls with selected demographic variable.

Materials and Methods

Quantitative non-experimental Descriptive research design was used. The targeted population is adolescent girls age group (12–19). Sixty subjects were collected using convenient sampling technique. The tool used to collect data is structured questionnaire prepared by the researcher.

Results

Table 1,2 showed the association between the level of knowledge with selected demographic variables. There was statistically significant association between the level of knowledge with selected demographic variables as age at $p > 0.05$ level.

Table 1: Frequency and percentage distribution of the level of knowledge regarding anaemia among adolescent girls

Level of knowledge	Frequency (<i>n</i>)	Percentage (%)
Good knowledge	22	36.7
Average knowledge	32	53.3
Poor knowledge	6	10.0

N = 60

Table 2: Association of level of knowledge regarding anaemia among adolescent girls with selected demographic variables

Demographic variables	Good knowledge		Average knowledge		Poor knowledge		Chi-square value
	N	%	N	%	N	%	
Age							
10–12 years	1	1.66	2	3.33	5	8.33	13.029 df = 6 $p = 0.043^*$ S
13–15 years	1	1.66	10	16.66	10	16.66	
16–18 years	1	1.66	16	26.66	5	8.33	
19 years	3	5	4	6.66	2	3.33	
Education							
5 th –6 th	0	0	1	1.66	2	3.33	7.706 df = 6 $p = 0.260$ NS
7 th –8 th	1	1.66	4	6.66	6	10	
9 th –10 th	0	0	9	15	7	11.66	
11 th –12 th	5	8.33	18	30	7	11.66	
Income							
Below 10000	2	3.33	9	15	9	15	2.326 df = 6 $p = 0.887$ NS
11000–15000	2	3.33	17	28.33	10	16.66	
16000–20000	1	1.66	3	5	2	3.33	
Above 21000	1	1.66	3	5	1	1.66	
Family type							
Nuclear family	4	6.66	25	41.66	11	18.33	4.641 df = 2 $p = 0.098$ NS
Joint family	2	3.33	7	11.66	11	18.33	

(Contd.)

Demographic variables	Good knowledge		Average knowledge		Poor knowledge		Chi-square value
	N	%	N	%	N	%	
Number of family members							
2-3 members	0	0	6	10	6	10	10.063 df = 6 <i>p</i> = 0.122 NS
4-5 members	4	6.66	23	38.33	12	20	
5-6 members	2	3.33	2	3.33	1	1.66	
More than 6 members	0	0	1	1.66	3	5	
Diet							
Vegetarian	1	1.66	11	18.33	7	6.66	0.733 df=2 <i>p</i> = 0.693 NS
Non-vegetarian	5	8.33	21	35	15	25	
Age of menarche							
9-11 years	0	0	2	3.33	3	5	1.861 df = 4 <i>p</i> = 0.761 NS
12-14 years	4	6.66	24	40	17	28.33	
15-17 years	1	1.66	5	8.33	2	3.33	
Menstrual pattern							
Not attained menarche	1	1.66	2	3.33	0	0	5.455 df = 4 <i>p</i> = 0.244 NS
Regular	5	8.33	20	33.33	17	28.33	
Irregular	0	0	10	16.66	5	8.33	
Deworming status							
Yes	4	6.66	19	31.66	14	23.33	0.171 df = 2 <i>p</i> = 0.918 NS
No	2	3.33	13	21.66	8	13.33	
Intake of iron tablets							
Yes	4	6.66	23	38.33	11	18.33	2.718 df = 2 <i>p</i> = 0.257 NS

Discussion

Out of 60 subjects, majority of them 53.3% has average knowledge on prevention and management of anaemia, 36.7% of them had good knowledge and 10% of them had poor knowledge. There was statistically significant association between the level of knowledge with selected demographic variables as age at $p > 0.05$ level.

Conclusion

Therefore the findings of the study revealed that knowledge regarding prevention of anaemia among adolescent girls were at average level. It

revealed that the role of community health nurse plays vital role in promoting the level of knowledge on prevention and management of anemia among adolescent girls to rule out anemia.

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