RESULTS

This study included 100 cases with chronic idiopathic constipation aged 6 - 12 years.

The descriptive data and statistical comparisons of studied cases are illustrated in tables (1-13) and figures (1-10).

Table (1): Cases according to sociodemographic data.

		No.	%	Z	P
C	Г 1			_	-
Sex	Female	63	63.0	2.7	< 0.05
	Male	37	37.0		
Residence	Urban	68	68.0	3.9	< 0.05
	Rural	32	32.0		
Social status	High	5	5.0	() high &	< 0.05
				middle = 4.8	
	Middle	31	31.0	()high &	< 0.001
				low = 10.1	
	Low	64	64.0	()low &	< 0.05
				middle= 3.6	
Mother job	Working	34	34.0	3.4	< 0.05
	Not working	66	66.0		
Father job	Farmer	15	15.0	()Farmer &	< 0.05
				Office	
				work=3.1	
	Manual	49	49.0	()Manual work	>0.05
	work			& Office	
				work= 1.4	
	Office work	36	36.0	()Manual work	< 0.05
				& Farmer =4.7	
Age (Years)		Minimum	Maximum	Mean	Std.deviation
<i>B</i> - (1 - 3 - 2)		6	12	8.61	2.030

This table shows that constipation is more common among females (63%) than males (37%) and more common in children of an urban area (68%) than children of rural area (32%). In addition

constipation is more common among siblings of manual workers and also more common among children of non working women all the previous differences are statistically significant (p < 0.05). On the other hand constipation is more common in low social class than high social class with statistically highly significant difference (p < 0.001). The mean and \pm SD of age of cases were 8.61 and 2.030 respectively.

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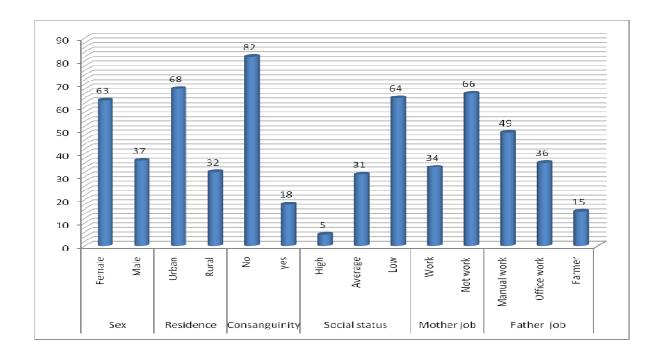


Fig (1): Cases according to sociodemographic data.



Table (2): Cases according to consanguinity.

		No.	%	Z	P
Consanguinity	- ve	82	82.0	8.3	< 0.001
	+ ve	18	18.0		

This table shows that (18%) of constipated children had positive consanguinity and (82%) had negative consanguinity with statistically highly significant difference(p<0.001).

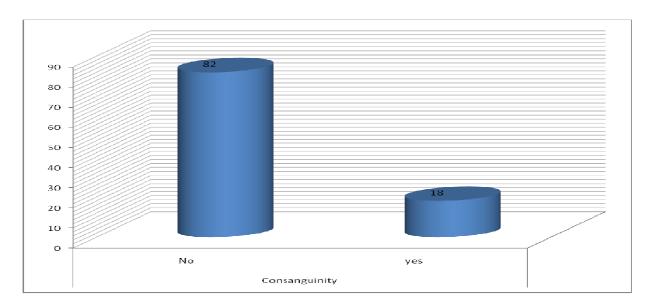


Fig (2): Cases according to consanguinity.

Table (3): Cases according to dietetic history.

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		No.	%	Z	P
Tea	No	48	48.0	0.4	>0.05
	Yes	52	52.0		
Juice	No	73	73.0	5.2	< 0.05
	Yes	27	27.0	3.2	10100
Milk intake	No	87	87.0	11.002	< 0.001
	yes	13	13.0	11.002	<0.001
Carbohydrates	Potato	47	47.0	()Potato & Rice =1.1	>0.05
	Rice	37	37.0	()Potato & NO = 4.2	< 0.05
	No	16	16.0	()No & Rice = 3.01	< 0.05
Fruits	No	70	70.0	4.4	< 0.05
	Yes	30	30.0	···	10.05
Vegetables	No	68	68.0	3.9	< 0.05
	Yes	32	32.0	3.7	\0.0 <i>3</i>
Protein (meat)	No	85	85.0	9.8	< 0.001
	Yes	15	15.0	7.0	\0.001

This table shows that excess potato intake is more frequently found among constipated children as it represents the favourite food in nearly (47%). In addition constipated children who do not drink excess juice about (73%). Moreover constipated children who do not eat excess fruits and vegetables (70% & 68% respectively) all the previous differences are statistically significant (p<0.05). As regards constipated children who do not take regular milk (87%) and constipated children who eat excess protein (15%) the previous two differences are statistically highly significant (p<0.001). On the other hand, constipated children who drink excess tea (52%) with statistically no significant difference exists between them.



Table (4): Cases according to type of bread intake.

		No.	%	Z	P
Type of bread	Black	29	29.0	4.6	< 0.05
	Other	71	71.0		

This table shows that (29%) of constipated children consumed black bread and (71%) consumed other types of bread with statistically significant difference (p<0.05).

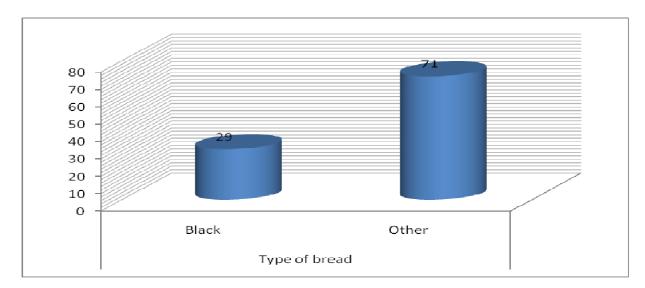


Fig (3): Cases according to type of bread intake.



Table (5): Cases according to drug intake.

		No.	%	Z	P
Drug	Iron	16	16.0	()Iron &	< 0.05
intake				Ant acid	
				=1.9	
	Antacid	7	7.0	()Iron & no	< 0.001
				= 8.2	
	No	77	77.0	()no & Ant	< 0.001
				acid = 11.8	

This table shows that (16%) of constipated children had history of prolonged intake of iron containing medications with statistically significant difference(p<0.05) and (7%) had history of antacids intake with statistically highly significant difference(p<0.001). In addition (77%) do not take any drugs with statistically highly significant difference(p<0.001).

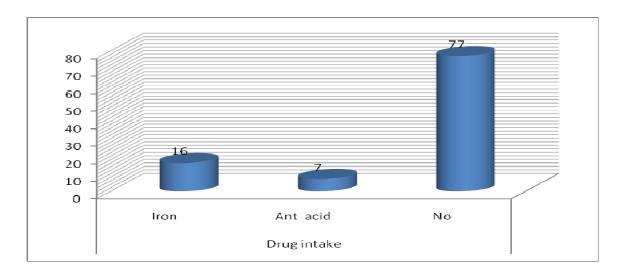


Fig (4): Cases according to drug intake.



Table (6): Cases according to exercise practice.

		No.	%	Z	P
Exercise	No	88	88.0	11.7	< 0.001
	Yes	12	12.0		

This table shows that (88%) of constipated children do not perform any kind of exercise while (12%) were practicing exercise with statistically highly significant difference (p < 0.001).

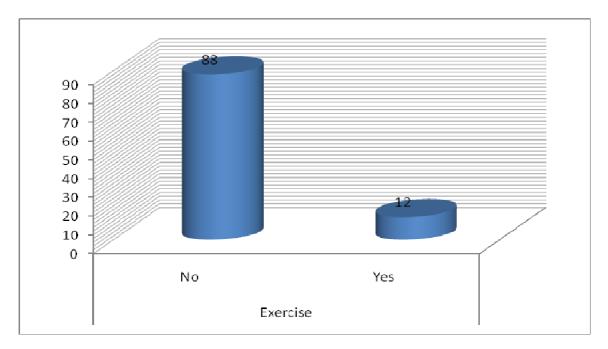


Fig (5): Cases according to exercise practice.



Table (7): Cases according to exposure to stressful events.

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		No.	%	Z	P
Stressful	No	55	55.0	1.01	>0.05
events	Yes	45	45.0		

This table shows that (45%) of constipated children exposed to stressful life events and (55%) don't exposed to stressful life events with statistically no significant difference exists between them(p>0.05).

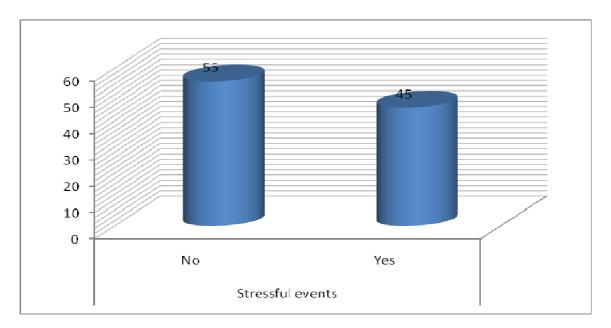


Fig (6): Cases according to exposure to stressful events.

Table (8): Cases according to their complains.

ES.

		No.	0/0	Z	P
Straining at defecation	No	31	31.0	4.1	< 0.05
	Yes	69	69.0		
Pain with defecation	No	58	58.0	1.6	>0.05
	Yes	42	42.0		
Abdominal Pain	No	33	33.0	3.6	< 0.05
	yes	67	67.0		
Abdominal distention	No	94	94.0	18.5	< 0.001
	Yes	6	6.0		
Dyspepsia	No	69	69.0	4.1	< 0.05
	Yes	31	31.0		
Anorexia	No	86	86.0	10.4	< 0.001
	yes	14	14.0		
Consistency of stool	Hard / firm	81	81.0	7.9	< 0.001
	Normal	19	19.0		
Soiling	No	79	79.0	7.1	< 0.001
	Yes	21	21.0		

This table shows that different complains of constipated children as regarding straining at defecation, abdominal pain and dyspepsia were (69% & 67% & 31 % respectively)all previous differences are statistically significant (p<0.05). In addition abdominal distention, anorexia, consistency

of stool (hard / firm) and soiling were (6% & 14% & 81% & 21% respectively) these previous differences are statistically highly significant (p<0.001). As regard constipated children who had pain with defecation were (42%) with statistically no significant difference exists between them (p>0.05).

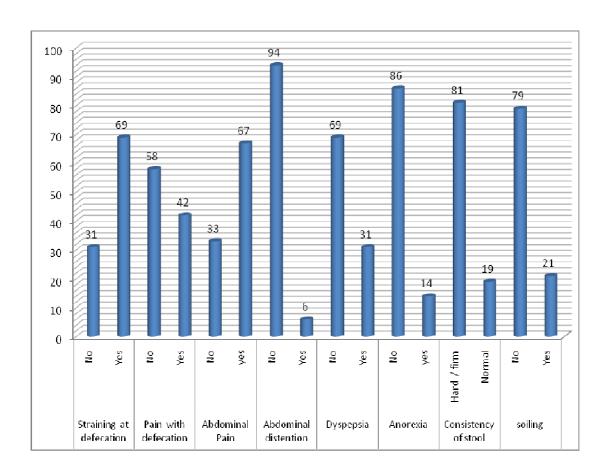


Fig (7): Cases according to their complains.

Table (9): Cases according to growth status

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		No.	%	Z	Р
Weight	Normal	87	87.0	11.002	<0.001
	Under weight	13	13.0		
Stature	Normal	98	98.0	34.3	<0.001
	Short stature	2	2.0		
BMI	Mean			SD	
бу	15.2		2.7		
7y	15.3		2.3		
8y	15.5		3.2		
9y	16.4		4.4		
10y	17.6		3.1		
11y	16.7		3.04		
12y	19.2		9.1		
BMI	Mean			SD	
Male	17.2		3.9		
Female	16.7		3.9		

This table shows that chronic constipation may affect the growth status of children in the form of under weight, short stature (13% & 2% respectively) with statistically highly significant difference(p< 0.001). Inaddition table shows Mean and SD of BMI of constipated cases according to age, as there are slightly gradual increase of BMI of constipated cases from 6 to 12 years also Mean of BMI of constipated cases according to sex is 17.2 for male and 16.7 for female.



Table (10): Cases according to family history of chronic constipation.

		No.	%	Z	P
Family	- ve	76	76.0	6.1	< 0.001
History	+ ve	24	24.0		

This table shows that (24%) of constipated children had positive family history of constipation and (76%) had negative family history of constipation with statistically highly significant difference(p<0.001).

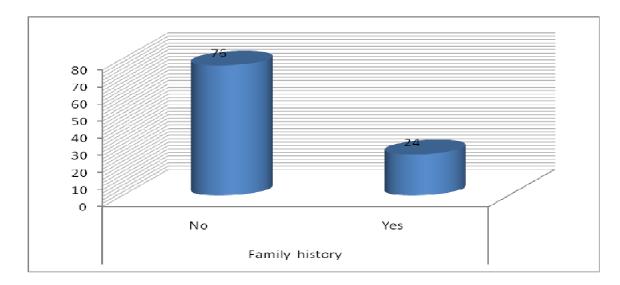


Fig (8): Cases according to family history of chronic constipation.

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Table (11): Cases according to past events.

		No.	%	Z	P
Abdominal	No	98	98.0	34.3	< 0.001
surgery	Yes	2	2.0		
Peri anal	No	93	93.0	16.9	< 0.001
lesions	Yes	7	7.0		
Allergy	No	74	74.0	5.5	< 0.05
	yes	26	26.0		

This table shows that (2%) of constipated children had past events of abdominal surgery with statistically highly significant difference (p<0.001). In addition (7%) had past events of peri anal lesions with statistically highly significant difference (p<0.001). Moreover allergy was more frequently found in (26%) with statistically significant difference (p<0.05).

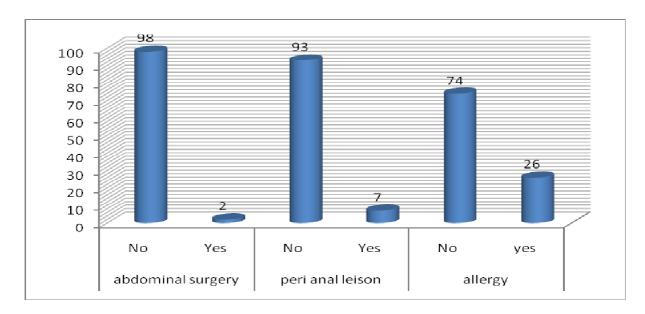


Fig (9): Cases according to past events.

Table (12): Cases according to their complications.

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		No.	%	Z	P
Anemia	No	47	47.0	0.6	>0.05
	Yes	53	53.0		
Occult blood in	No	73	73.0	5.2	< 0.05
stool	Yes	27	27.0		
Anal fissure	No	84	84.0	9.3	< 0.001
	Yes	16	16.0		
Piles	No	99	99.0	49.2	< 0.05
	Yes	1	1.0		
Perianal erythema	No	23	23.0	6.4	< 0.05
ory mond	Yes	77	77.0		

This table shows that constipated children who had complications from constipation in the form of anal fissure (16 %) with statistically highly significant difference (p < 0.001). In addition occult blood in stool, piles and perianal erythema were (27% & 1% & 77 % respectively) these previous differences are statistically significant (p<0.05). As regard constipated children who had anemia (53%) with statistically no significant difference exists between them (p>0.05).



Table (13): Cases according to school achievement.

		No.	%	Z	P
School	Poor &	73	73.0		
achievement	moderate			5.2	< 0.05
	Good &	27	27.0		
	excellent				

This table shows that (73%) of constipated children had poor & moderate scholastic performance and (27%) had good & excellent scholastic performance with statistically significant difference (p<0.05).

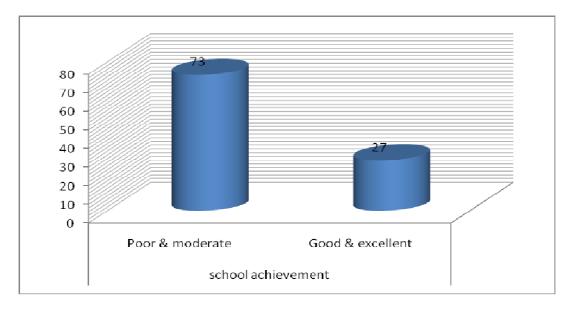


Fig (10): Cases according to school achievement.