

## Results

### **I-Socio-demographic characteristics of the studied sample:**

**Table (1)** Shows distribution of studied group according to their socio-demographic characteristics. The study conducted on 330 students, 53% of them were female students and 47% were male students. The urban students represented the majority of the sample 63.6%. Children belonging to low social class represented 44.8% of the sample, while Children belonging to high and middle social class were estimated to be 27.9% & 27.3% respectively.

The majority of Children were belonging to below secondary school graduated parents. The highest percentage of children was belonging to employed mothers 60.6%. The majority of Children were belonging to middle aged parents.

**Table (1) Distribution of the studied group according to their socio-demographic characteristics:**

| <b>Socio-demographic characteristics:</b> | <b>The studied group<br/>n=330</b> |          |
|---|------------------------------------|----------|
|   | <b>No</b>                          | <b>%</b> |
| <b>Gender:</b>                            |                                    |          |
| Male                                      | 155                                | 47       |
| Female                                    | 175                                | 53       |
| <b>Residence:</b>                         |                                    |          |
| Urban                                     | 210                                | 63.6     |
| Rural                                     | 120                                | 36.4     |
| <b>Social class:</b>                      |                                    |          |
| High                                      | 92                                 | 27.9     |
| Middle                                    | 90                                 | 27.3     |
| Low                                       | 148                                | 44.8     |
| <b>Education of father:</b>               |                                    |          |
| Below secondary school                    | 202                                | 61.2     |
| Secondary school                          | 55                                 | 16.7     |
| University                                | 73                                 | 22.1     |
| <b>Education of mother:</b>               |                                    |          |
| Below secondary school                    | 186                                | 56.4     |
| Secondary school                          | 69                                 | 20.9     |
| University                                | 75                                 | 22.7     |
| <b>Employment of mother:</b>              |                                    |          |
| Housewives                                | 130                                | 39.4     |
| Worked mothers                            | 200                                | 60.6     |
| <b>Age of mother:</b>                     |                                    |          |
| < 40 years                                | 90                                 | 27.3     |
| 40-< 60 years                             | 164                                | 49.7     |
| ≥60 years                                 | 76                                 | 23       |
| <b>Age of father:</b>                     |                                    |          |
| < 40 years                                | 107                                | 32.4     |
| 40-< 60 years                             | 165                                | 50       |
| ≥ 60 years                                | 58                                 | 17.6     |

**II-Features of child abuse among the studied sample:**

**Table (2)** shows the distribution of the studied group according to exposure to abuse . It was estimated that 75.8% of the studied group were exposed to abuse. Only 24.2% of the studied group wasn't exposed to abuse. This difference was of statistical significance ,  $P < 0.05$ .

**Table (3)** shows distribution of the abused group according to types of abuse. Approximately twenty eight percentage of the abused group were exposed to combined form of abuse, while for emotional abuse was 24%, that for physical abuse was 20.4% and for the percentage of neglect was 17.6%. The least percentage for abuse was encountered among sexually abused students 9.6%.

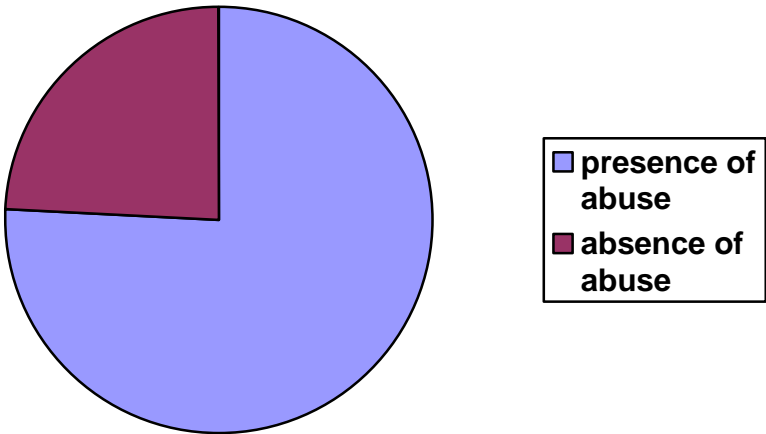
**Table(2): Distribution of the studied group according to their exposure to abuse:**

| Exposure to abuse | The studied group |      |
|-------------------|-------------------|------|
|                   | No                | %    |
| Present           | 250               | 75.8 |
| Absent            | 80                | 24.2 |
| Total             | 330               | 100  |

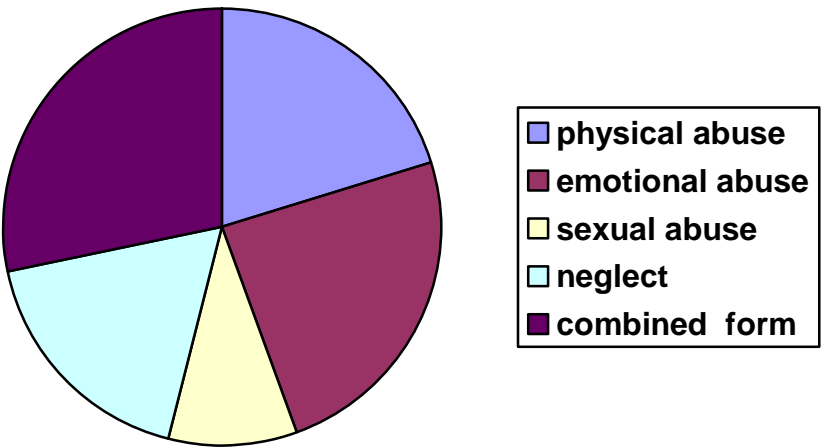
**Table(3) Distribution of the abused group according to types of abuse:**

| Type of abuse       | Abused group |      |
|---------------------|--------------|------|
|                     | No           | %    |
| Physical abuse      | 51           | 20.4 |
| Emotional abuse     | 60           | 24   |
| Sexual abuse        | 24           | 9.6  |
| Neglect             | 44           | 17.6 |
| Combined form abuse | 71           | 28.4 |
| Total               | 250          | 100  |

Fig(1): Distribution of the studied group according to exposure to abuse.



Fig(2): Distribution of the abused group according to types of abuse.



### **III- Relationship between exposure to abuse and socio-demographic characteristics among the studied sample:**

**Table (4)** Shows the distribution of the studied group according to their gender. The absence of abuse was estimated to be 28.6% among females & 19.4% among males. This difference was of no statistical significance,  $P > 0.05$ . Male students showed higher percentage for physical and combined form of abuse 22.6% & 26.5% respectively than females 9.2% & 17.1%. These differences were statistically significant,  $P < 0.05$ . However, Female students showed higher percentage of emotional abuse 22.3% as well as higher percentage of neglect 17.1% than males 13.5% & 9% respectively. These differences were of statistical significance,  $P < 0.05$ . The lowest percentage of abuse was encountered among sexually abused male and female students 9% & 6% respectively. This difference was of no statistical significance,  $P > 0.05$ .

**Table (5)** Shows distribution of the studied group according to their residence. Urban students were emotionally & physically abused at frequencies of 19.5% & 16.7% respectively compared with rural students who were emotionally & physically abused at frequencies of 15.8% & 13.3% respectively. Sexual abuse was estimated to be 8.3% among rural students compared with 6.6% among urban students. The absence of abuse was estimated to be 31.7% among rural students, compared with 20% among urban students. These differences were of no statistical significance,  $P > 0.05$ .

**Table (6)** shows the distribution of the studied group according to the social score. The absence of abuse was estimated to be 43.4%, 27.8% & 10.1% among high , middle and low social classes respectively. Combined form of abuse was estimated to be 27.8% & 21% among students of middle and low social classes respectively .The percentage of neglect was estimated to be 23% among low social class .However , 5.4% only of students belonging to low social class was sexually abused compared with 10.8% students belonging to high social class. These differences were of statistical significance,  $P < 0.05$ .

**Table (7)** shows the distribution of the studied group according to the marital status of the parents. The absence of abuse of children was estimated to be 28.5% among children belonging to married parents ,12.8% among the widow\widower parents & 6.7% among students belonging to divorced parents. Physical abuse was estimated to be 15.8%, 14.9% & 13.3% among children belonging to married , widow\widower & divorced parents respectively. The highest percentage of sexually abused children was encountered among single parent family ( divorced parents& widow \ widower parents) 26.6% & 21.3% respectively.

The most prevalent percentage of emotional abuse was 19.7% among children belonging to married parents, while the least percentage was 10.6% among children belonging to widow\widower parents. Neglect didn't show very much variation among children of all groups. These differences were of statistical significance ,  $p < 0.05$ .

**Table (8)** shows the distribution of the studied group according to the educational level of their mothers. The frequencies of absence of abuse were estimated to be 28%, 27.5% & 21.5% among children belonging to mothers graduated from secondary school, university & below secondary school respectively. The highest percentage of physical abuse was encountered among children belonging to university graduated mothers 18.7%. Sexually abused & Neglected children didn't have very much variation with the level of education of mothers. Combined form abuse was encountered with frequencies of 24.2%, 21.3% & 14.5% among children belonging to below secondary school graduated mothers, university graduated mothers & secondary school graduated mothers respectively. These differences were of no statistical significance,  $P > 0.05$ .

**Table (9)** shows the distribution of the studied group according to educational level of their fathers. The frequencies of absence of abuse were estimated to be 34.3%, 30.9% & 18.8% among children belonging to fathers graduated from university, secondary school & below secondary school respectively. The highest percentage of emotional abuse was encountered among children belonging to below secondary school graduated fathers 21.8% , while the least percentage was 11% among children belonging to fathers graduated from secondary school. Sexually abused & physically abused children had no difference with level of education of fathers. Neglect was estimated to be 20%, 15.1% & 10.9% among children belonging to secondary school graduated fathers, university graduated fathers & below secondary school graduated fathers respectively.



The highest percentage of combined form abuse 24.3% was found among children belonging to below secondary school graduated fathers , while the least percentage was 16.3% among children belonging to secondary school graduated fathers. These differences were of no statistical significance,  $P>0.05$ .

**Table (10)** shows the distribution of the studied group according to the employment of mothers The percentage of absence of abuse was high 42.3% among children belonging to unemployed mothers , compared to 12.5% of children belonging to employed mothers. This difference was of statistical significance,  $P<0.05$ . While , 28% and 21.5% of children belonging to employed mothers were exposed to combined form of abuse and emotional abuse respectively. These differences were of statistical significance,  $P<0.05$ .

**Table (11)** shows the distribution of the studied group according to the age of their mothers. The frequencies of absence of abuse were estimated to be 30%&23.7% among children belonging to young aged mother &children belonging to old aged mothers respectively. Physical and sexual abuse of children showed no difference in relation to age of mothers. Combined form was estimated to occur at frequency of 25.6% among children belonging to middle aged mothers, while children belonging to old age mothers exhibited combined form abuse at frequency of 17.1%. These difference were of statistical significance,  $P<0.05$ .

**Table (12)** shows the distribution of the studied group according to the age of their fathers. The frequencies of absence of abuse were estimated to be 25.5% & 18.7%, 17.2% among children belonging to middle aged fathers, young aged fathers & old aged father respectively. The frequencies of occurrence of combined form abuse were 26.2%, 19% & 18.8% among children belonging to young aged fathers, old aged fathers & middle aged fathers respectively. The highest percentage of emotional abuse was 22.4% among students belonging to young aged fathers, while the least percentage was 18.8% among students belonging to middle aged fathers. These differences were of no statistical significance,  $P > 0.05$ .

**Table (4) Distribution of the studied group according to their Gender:**

| Type of abuse    | Gender        |      |                 |      |                |      | Z<br>test | P<br>Value |
|------------------|---------------|------|-----------------|------|----------------|------|-----------|------------|
|                  | Male<br>n=155 |      | Female<br>n=175 |      | Total<br>n=330 |      |           |            |
|                  | No            | %    | No              | %    | No             | %    |           |            |
| Absence of abuse | 30            | 19.4 | 50              | 28.6 | 80             | 24.2 | 1.95      | >0.05      |
| Physical Abuse   | 35            | 22.6 | 16              | 9.2  | 51             | 15.5 | 3.370     | <0.05      |
| Emotional Abuse  | 21            | 13.5 | 39              | 22.3 | 60             | 18.2 | 2.054     | <0.05      |
| Sexual Abuse     | 14            | 9    | 10              | 5.7  | 24             | 7.3  | 1.158     | >0.05      |
| Neglect          | 14            | 9    | 30              | 17.1 | 44             | 13.3 | 2.163     | <0.05      |
| Combined form    | 41            | 26.5 | 30              | 17.1 | 71             | 21.5 | 2.054     | <0.05      |

**Table (5) Distribution of the studied group according to their residence:**

| Type of abuse    | Residence      |      |                |      |                |      |           |            |
|------------------|----------------|------|----------------|------|----------------|------|-----------|------------|
|                  | Urban<br>n=210 |      | Rural<br>n=120 |      | Total<br>n=330 |      | Z<br>test | P<br>value |
|                  | No             | %    | No             | %    | No             | %    |           |            |
| Absence of abuse | 42             | 20   | 38             | 31.7 | 80             | 24.2 | 0.806     | >0.05      |
| Physical abuse   | 35             | 16.7 | 16             | 13.3 | 51             | 15.5 | 0.836     | >0.05      |
| Emotional abuse  | 41             | 19.5 | 19             | 15.8 | 60             | 18.2 | 0.561     | >0.05      |
| Sexual Abuse     | 14             | 6.6  | 10             | 8.3  | 24             | 7.3  | 1.01      | >0.05      |
| Neglect          | 31             | 14.8 | 13             | 10.8 | 44             | 13.3 | 0.506     | >0.05      |
| Combined form    | 47             | 22.4 | 24             | 20   | 71             | 21.5 | 0.506     | >0.05      |

**Table (6) Distribution of the studied group according to the social score:**

| Type of abuse    | Social score |      |          |      |     |      |       |      |
|------------------|--------------|------|----------|------|-----|------|-------|------|
|                  | High         |      | moderate |      | Low |      | Total |      |
|                  | No           | %    | No       | %    | No  | %    | No    | %    |
| Absence of abuse | 40           | 43.4 | 25       | 27.8 | 15  | 10.1 | 80    | 24.2 |
| Physical abuse   | 11           | 12   | 17       | 18.7 | 23  | 15.5 | 51    | 15.5 |
| Emotional abuse  | 11           | 12   | 12       | 13.3 | 37  | 25   | 60    | 18.2 |
| Sexual abuse     | 10           | 10.8 | 6        | 6.7  | 8   | 5.4  | 24    | 7.3  |
| Neglect          | 5            | 5.4  | 5        | 6.7  | 34  | 23   | 44    | 13.3 |
| Combined form    | 15           | 16.3 | 25       | 27.8 | 31  | 21   | 71    | 21.5 |
| Total            | 92           | 27.9 | 90       | 27.3 | 148 | 44.8 | 330   | 100  |

$$X^2= 58.89$$

$$P < 0.05$$

**Table (7) Distribution of the studied group according to the marital status of parents:**

| Type of abuse    | Marital status |      |          |      |               |      |       |      |
|------------------|----------------|------|----------|------|---------------|------|-------|------|
|                  | Married        |      | Divorced |      | Widow\Widower |      | Total |      |
|                  | No             | %    | No       | %    | No            | %    | No    | %    |
| Absence of abuse | 72             | 28.5 | 2        | 6.7  | 6             | 12.8 | 80    | 24.2 |
| Physical abuse   | 40             | 15.8 | 4        | 13.3 | 7             | 14.9 | 51    | 15.5 |
| Emotional abuse  | 50             | 19.7 | 5        | 16.7 | 5             | 10.6 | 60    | 18.2 |
| Sexual abuse     | 6              | 2.4  | 8        | 26.6 | 10            | 21.3 | 24    | 7.3  |
| Neglect          | 31             | 12.3 | 5        | 16.7 | 8             | 17   | 44    | 13.3 |
| Combined form    | 54             | 21.3 | 6        | 20   | 11            | 23.4 | 71    | 21.5 |
| Total            | 253            | 76.7 | 30       | 9    | 47            | 14.3 | 330   | 100  |

**$X^2=71.6$**

**$P < 0.05$**

**Table (8) Distribution of the studied sample according to the educational level of their mothers:**

| Type of abuse    | Educational level of mother |      |                  |      |            |      |       |      |
|------------------|-----------------------------|------|------------------|------|------------|------|-------|------|
|                  | Below secondary school      |      | Secondary school |      | University |      | Total |      |
|                  | No                          | %    | No               | %    | No         | %    | No    | %    |
| Absence of abuse | 40                          | 21.5 | 19               | 27.5 | 21         | 28   | 80    | 24.2 |
| Physical Abuse   | 27                          | 14.5 | 10               | 14.5 | 14         | 18.7 | 51    | 15.5 |
| Emotional Abuse  | 33                          | 17.7 | 18               | 26.1 | 9          | 12   | 60    | 18.2 |
| Sexual Abuse     | 14                          | 7.5  | 4                | 5.8  | 6          | 8    | 24    | 7.3  |
| Neglect          | 27                          | 14.5 | 8                | 11.6 | 9          | 12   | 44    | 13.3 |
| Combined form    | 45                          | 24.2 | 10               | 14.5 | 16         | 21.3 | 71    | 21.5 |
| Total            | 186                         | 56.4 | 69               | 20.9 | 75         | 22.7 | 330   | 100  |

$$X^2=8.68$$

$$P > 0.05$$

**Table (9) Distribution of the studied group according to the educational level of their fathers:**

| Type of abuse    | Educational level of father |      |                  |      |            |      |       |      |
|------------------|-----------------------------|------|------------------|------|------------|------|-------|------|
|                  | Below secondary School      |      | Secondary School |      | University |      | Total |      |
|                  | No                          | %    | No               | %    | No         | %    | No    | %    |
| Absence of abuse | 38                          | 18.8 | 17               | 30.9 | 25         | 34.3 | 80    | 24.2 |
| Physical abuse   | 33                          | 16.3 | 9                | 16.3 | 9          | 12.3 | 51    | 15.5 |
| Emotional abuse  | 44                          | 21.8 | 6                | 11   | 10         | 13.7 | 60    | 18.2 |
| Sexual abuse     | 16                          | 7.9  | 3                | 5.5  | 5          | 6.8  | 24    | 7.3  |
| Neglect          | 22                          | 10.9 | 11               | 20   | 11         | 15.1 | 44    | 13.3 |
| Combined form    | 49                          | 24.3 | 9                | 16.3 | 13         | 17.8 | 71    | 21.5 |
| Total            | 202                         | 61.2 | 55               | 16.7 | 73         | 22.1 | 330   | 100  |

$$X^2=16.05$$

$$P > 0.05$$



**Table (10) Distribution of the studied group according to the employment of mothers:**

| Type of abuse    | Employment of mother     |      |                     |      |                |      | Z test | P value |
|------------------|--------------------------|------|---------------------|------|----------------|------|--------|---------|
|                  | Working Mothers<br>n=200 |      | Housewives<br>n=130 |      | Total<br>n=330 |      |        |         |
|                  | No                       | %    | No                  | %    | No             | %    |        |         |
| Absence of abuse | 25                       | 12.5 | 55                  | 42.3 | 80             | 24.2 | 6.17   | <0.05   |
| Physical Abuse   | 31                       | 15.5 | 20                  | 15.4 | 51             | 15.5 | 0.03   | >0.05   |
| Emotional Abuse  | 44                       | 22   | 16                  | 12.3 | 60             | 18.2 | 2.23   | <0.05   |
| Sexual Abuse     | 14                       | 7    | 10                  | 7.7  | 24             | 7.3  | 0.24   | >0.05   |
| Neglect          | 30                       | 15   | 14                  | 10.7 | 44             | 13.3 | 1.11   | >0.05   |
| Combined Form    | 56                       | 28   | 15                  | 11.5 | 71             | 21.5 | 3.56   | <0.05   |

**Table (11) Distribution of the studied group according to the age of their mothers:**

| Type of abuse    | Age of mother |      |         |      |      |      |       |      |
|------------------|---------------|------|---------|------|------|------|-------|------|
|                  | < 40 Y        |      | 40-60 Y |      | >60Y |      | Total |      |
|                  | No            | %    | No      | %    | No   | %    | No    | %    |
| Absence of abuse | 27            | 30   | 35      | 21.3 | 18   | 23.7 | 80    | 24.2 |
| Physical abuse   | 15            | 16.7 | 25      | 15.2 | 11   | 14.5 | 51    | 15.5 |
| Emotional abuse  | 12            | 13.3 | 33      | 20.1 | 15   | 19.7 | 60    | 18.2 |
| Sexual abuse     | 7             | 7.8  | 11      | 6.7  | 6    | 7.9  | 24    | 7.3  |
| Neglect          | 13            | 14.4 | 18      | 10.9 | 13   | 17.1 | 44    | 13.3 |
| Combined form    | 16            | 17.8 | 42      | 25.6 | 13   | 17.1 | 71    | 21.5 |
| Total            | 90            | 27.3 | 164     | 49.7 | 76   | 23   | 330   | 100  |

$$X^2=7.82$$

$$P < 0.05$$

**Table (12) Distribution of the studied group according to the age of their fathers:**

| Type of abuse    | Age of father |      |        |      |      |      |       |      |
|------------------|---------------|------|--------|------|------|------|-------|------|
|                  | < 40 Y        |      | 40-60Y |      | >60Y |      | Total |      |
|                  | No            | %    | No     | %    | No   | %    | No    | %    |
| Absence of abuse | 20            | 18.7 | 42     | 25.5 | 10   | 17.2 | 80    | 24.2 |
| Physical abuse   | 17            | 15.9 | 23     | 13.9 | 6    | 10.3 | 51    | 15.5 |
| Emotional abuse  | 24            | 22.4 | 31     | 18.8 | 13   | 22.4 | 60    | 18.2 |
| Sexual abuse     | 6             | 5.6  | 11     | 6.7  | 3    | 5.2  | 24    | 7.3  |
| Neglect          | 12            | 11.2 | 27     | 16.3 | 15   | 25.9 | 44    | 13.3 |
| Combined form    | 28            | 26.2 | 31     | 18.8 | 11   | 19   | 71    | 21.5 |
| Total            | 107           | 32.4 | 165    | 50   | 58   | 17.6 | 330   | 100  |

**$X^2=13.8$**

**$P > 0.05$**

#### **IV- Child behaviour and his emotional problems in relation to exposure to child abuse :**

**Table (13)** shows the distribution of the abused children according to the total difficulties score. The highest percentage for combined form abuse was 32.3% among students of high need score , while the least percentage is 21.4% among students of low need score . Sexual abuse showed its peak 12% among students of high need score. Physical abuse showed no difference among students of low need and some need score. These differences were of statistical significance,  $P<0.05$ .

**Table (14)** shows the distribution of the abused children according to the emotional symptoms score. Physical abuse showed its peak 32.5% among students of low need score. Emotional abuse was estimated to be 32%,16.7%&5% among students of high need , some need & low need score respectively. Sexual abuse was estimated to be 15%, 12.5%& 6.7% among students of some need score, low need & high need score respectively . Combined form abuse showed its peak 35% among students of low need score. These differences were of statistical significance,  $P<0.05$ .

**Table (15)** shows the distribution of the abused children according to the hyperactivity score. Physical abuse showed its peak 26.2% among students of low need score. Emotional abuse was estimated to be 26.2%,23.3%&19.1% among students of high need , some need & low need score respectively. Sexual abuse was estimated to be 10.7%, 9.3%& 7.1% among students of high need score, some need & low need score respectively. The highest percentage of neglect

was 30.9% among students of low need score, while the least percentage was 13.9% among students of some need score. combined form abuse didn't show very much variation among students of some need and high need score. These differences were of statistical significance,  $P < 0.05$ .

**Table (16)** shows the distribution of the abused children according to the peer problem score. Physical abuse showed its peak 22.1% among students of high need score. Emotional abuse was estimated to be 25.7%, 21.9% & 20.3% among students of high need, low need & some need score respectively. The highest percentage of neglect was 21% among students of some need score, while the least percentage was 15% among students of high need score. The highest percentage of combined form abuse was 33.8% among students of some need score while the least percentage was 25% among students of high need score. These differences were of statistical significance,  $P < 0.05$ .

**Table (17)** shows the distribution of the abused children according to the conduct problem score. Physical abuse showed its peak 28.4% among students of some need score. the highest percentage of emotional abuse was estimated to be 30.8% among students of high need score. Sexual abuse showed its peak 12% among students of low need score. Neglect was estimated to be 24%, 17.9% & 15% among students of low need, some need and high need score respectively. These differences weren't statistically significant,  $P > 0.05$ .

**Table (18)** shows distribution of abused children according to the severity of abuse on the child. Emotional abuse was estimated to be 31.9%, 27.3%, 22% & 21.1% among students who had minor difficulties, no difficulties, sever difficulties and serious difficulties respectively. Sexual abuse showed its peak 12.8% among students complained of sever difficulties. While the peak of occurrence of neglect was 25.3% among students had serious difficulties.

**Table (19)** Shows the distribution of abuse according to the depressive status of children. The majority of students who didn't exposed to abuse 44.8% weren't depressed. The highest percentage of emotionally abused 24.7% were depressed . High parentage of students who exposed to physical abuse, sexual abuse , neglect & combined form abuse were depressed . These differences were statistically significant,  $P < 0.05$ .

**Table (13) Distribution of the abused children According to the total Difficulties Score:**

| Type of abuse   | The total Difficulties score |      |           |      |           |      |       |      |
|-----------------|------------------------------|------|-----------|------|-----------|------|-------|------|
|                 | Low need                     |      | Some need |      | High need |      | Total |      |
|                 | No                           | %    | No        | %    | No        | %    | No    | %    |
| Physical abuse  | 10                           | 23.8 | 18        | 24   | 23        | 17.3 | 51    | 20.4 |
| Emotional abuse | 13                           | 30.9 | 17        | 22.7 | 30        | 22.6 | 60    | 24   |
| Sexual abuse    | 2                            | 4.7  | 6         | 8    | 16        | 12   | 24    | 9.6  |
| Neglect         | 8                            | 19   | 15        | 20   | 21        | 15.8 | 44    | 17.6 |
| Combined form   | 9                            | 21.4 | 19        | 25.3 | 43        | 32.3 | 71    | 28.4 |
| Total           | 42                           | 16.8 | 75        | 30   | 133       | 53.2 | 250   | 100  |

$$X^2=6.64$$

$$P < 0.05$$

**Table(14) Distribution of the abused group according to The emotional symptom score:**

| Type of abuse   | The emotional symptom score |      |           |      |           |      |       |      |
|-----------------|-----------------------------|------|-----------|------|-----------|------|-------|------|
|                 | Low need                    |      | Some need |      | High need |      | Total |      |
|                 | No                          | %    | No        | %    | No        | %    | No    | %    |
| Physical abuse  | 13                          | 32.5 | 11        | 18.3 | 27        | 18   | 51    | 20.4 |
| Emotional abuse | 2                           | 5    | 10        | 16.7 | 48        | 32   | 60    | 24   |
| Sexual abuse    | 5                           | 12.5 | 9         | 15   | 10        | 6.7  | 24    | 9.6  |
| Neglect         | 6                           | 15   | 12        | 20   | 26        | 17.3 | 44    | 17.6 |
| Combined form   | 14                          | 35   | 18        | 30   | 39        | 26   | 71    | 28.4 |
| Total           | 40                          | 16   | 60        | 24   | 150       | 60   | 250   | 100  |

$$X^2=19.63$$

$$P < 0.05$$



**Table(15)Distribution of the abused group according to The hyperactivity score:**

| Type of abuse   | The hyperactivity score |      |           |      |           |      |       |      |
|-----------------|-------------------------|------|-----------|------|-----------|------|-------|------|
|                 | Low need                |      | Some need |      | High need |      | Total |      |
|                 | No                      | %    | No        | %    | No        | %    | No    | %    |
| Physical abuse  | 11                      | 26.2 | 19        | 22.1 | 21        | 17.2 | 51    | 20.4 |
| Emotional abuse | 8                       | 19.1 | 20        | 23.3 | 32        | 26.2 | 60    | 24   |
| Sexual abuse    | 3                       | 7.1  | 8         | 9.3  | 13        | 10.7 | 24    | 9.6  |
| Neglect         | 13                      | 30.9 | 12        | 13.9 | 19        | 15.6 | 44    | 17.6 |
| Combined form   | 7                       | 16.7 | 27        | 31.4 | 37        | 30.3 | 71    | 28.4 |
| Total           | 42                      | 16.8 | 86        | 34.4 | 122       | 48.8 | 250   | 100  |

$$X^2=10.19$$

$$P < 0.05$$

**Table (16) Distribution of the abused group according to the Peer Problem Score:**

| Type of abuse   | The Peer Problem score |      |           |      |           |      |       |      |
|-----------------|------------------------|------|-----------|------|-----------|------|-------|------|
|                 | Low need               |      | Some need |      | High need |      | Total |      |
|                 | No                     | %    | No        | %    | No        | %    | No    | %    |
| Physical abuse  | 9                      | 21.9 | 10        | 13.5 | 31        | 22.1 | 51    | 20.4 |
| Emotional abuse | 9                      | 21.9 | 15        | 20.3 | 36        | 25.7 | 60    | 24   |
| Sexual abuse    | 4                      | 9.8  | 9         | 12.2 | 17        | 12.2 | 24    | 9.6  |
| Neglect         | 8                      | 19.5 | 15        | 20.3 | 21        | 15   | 44    | 17.6 |
| Combined form   | 11                     | 26.9 | 25        | 33.7 | 35        | 25   | 71    | 28.4 |
| Total           | 41                     | 16.4 | 74        | 29.6 | 140       | 56   | 250   | 100  |

$$X^2=10.19$$

$$P < 0.05$$

**Table (17) Distribution of the abused group according to the conduct problem Score:**

| Type of abuse   | The conduct problem score |    |           |      |           |      |       |      |
|-----------------|---------------------------|----|-----------|------|-----------|------|-------|------|
|                 | Low need                  |    | Some need |      | High need |      | Total |      |
|                 | No                        | %  | No        | %    | No        | %    | No    | %    |
| Physical abuse  | 10                        | 20 | 19        | 28.4 | 22        | 16.5 | 51    | 20.4 |
| Emotional abuse | 8                         | 16 | 11        | 16.4 | 41        | 30.8 | 60    | 24   |
| Sexual abuse    | 6                         | 12 | 6         | 8.9  | 12        | 9    | 24    | 9.6  |
| Neglect         | 12                        | 24 | 12        | 17.9 | 20        | 15   | 44    | 17.6 |
| Combined form   | 14                        | 28 | 19        | 28.4 | 38        | 28.6 | 71    | 28.4 |
| Total           | 50                        | 20 | 67        | 26.8 | 133       | 53.2 | 250   | 100  |

$$X^2=10.6$$

$$P > 0.05$$

**Table (18) Distribution of the abused group According to the severity of abuse on the child:**

| Type of abuse   | Severity of abuse |      |                  |      |                         |      |                  |      |       |      |
|-----------------|-------------------|------|------------------|------|-------------------------|------|------------------|------|-------|------|
|                 | No Difficulty     |      | Minor Difficulty |      | More serious Difficulty |      | Sever Difficulty |      | Total |      |
|                 | No                | %    | No               | %    | No                      | %    | No               | %    | No    | %    |
| Physical abuse  | 6                 | 27.3 | 10               | 21.3 | 18                      | 18.9 | 17               | 19.8 | 51    | 20.4 |
| Emotional abuse | 6                 | 27.3 | 15               | 31.9 | 20                      | 21.1 | 19               | 22   | 60    | 24   |
| Sexual abuse    | 0                 | 0    | 3                | 6.4  | 10                      | 10.5 | 11               | 12.8 | 24    | 9.6  |
| Neglect         | 3                 | 13.6 | 4                | 8.5  | 24                      | 25.3 | 13               | 15.1 | 44    | 17.6 |
| Combined form   | 7                 | 31.8 | 15               | 31.9 | 23                      | 24.2 | 26               | 30.2 | 71    | 28.4 |
| Total           | 22                | 8.8  | 47               | 18.8 | 95                      | 38   | 86               | 34.4 | 250   | 100  |

**Table (19) Distribution of the studied group according to depressive status of children:**

| Type of abuse    | Depressive status |      |               |      |       |      |
|------------------|-------------------|------|---------------|------|-------|------|
|                  | Depressed         |      | Not depressed |      | Total |      |
|                  | No                | %    | No            | %    | No    | %    |
| Absence of abuse | 25                | 12.1 | 55            | 44.8 | 80    | 24.2 |
| Physical Abuse   | 40                | 19.4 | 11            | 8.9  | 51    | 15.5 |
| Emotional Abuse  | 51                | 24.7 | 9             | 7.3  | 60    | 18.2 |
| Sexual Abuse     | 15                | 7    | 9             | 7.3  | 24    | 7.3  |
| Neglect          | 27                | 13.1 | 17            | 13.8 | 44    | 13.3 |
| Combined form    | 49                | 23.7 | 22            | 17.9 | 71    | 21.5 |
| Total            | 207               | 62.7 | 123           | 37.3 | 330   | 100  |

$$X^2=53.25$$

$$P<0.05$$

**V- Child abuse in relation to duration and place of abuse:**

**Table (20)** shows the distribution of the abused children according to duration of difficulties. Combined form abuse formed higher percentage 30.6% among students suffered from abuse for one year or more 21%. Sexual abuse was estimated to occur at frequency of 10.9% among students suffered from abuse for less than 1 year . Emotional abuse & neglect didn't show much variation among the two groups. These differences was of no statistical significance,  $P>0.05$ .

**Table (21)** shows the distribution of the abused children according to the place of exposure to abuse. The frequencies of occurrence of neglect at home, school and outside were 29.4%, 28.4% and 6.9% respectively. Sexual abuse was estimated to be 20.8% at school , 7.8% outside and 4.4% at home. physical abuse & emotional abuse showed their peak 25.6%&28.7% respectively outside .The frequencies of occurrence of Combined form abuse outside , at home & at school were 31%, 29.4% & 20.8% respectively. These differences were of statistical significance,  $P<0.05$ .

**Table (20 )Distribution of abused group according to the duration of Difficulties:**

| Type of abuse   | Duration         |      |                  |      |                |      | Z test | P value |
|-----------------|------------------|------|------------------|------|----------------|------|--------|---------|
|                 | <1 year<br>n=201 |      | ≥ 1 year<br>n=49 |      | Total<br>n=250 |      |        |         |
|                 | No               | %    | No               | %    | No             | %    |        |         |
| Physical abuse  | 41               | 20.4 | 13               | 26.5 | 51             | 20.4 | 0.002  | >0.05   |
| Emotional abuse | 47               | 23.4 | 3                | 6    | 60             | 24   | 0.46   | >0.05   |
| Sexual abuse    | 21               | 10.4 | 8                | 16.3 | 24             | 9.6  | 0.922  | >0.05   |
| Neglect         | 36               | 17.9 | 15               | 30.6 | 44             | 17.6 | 0.261  | >0.05   |
| Combined form   | 56               | 27.9 | 15               | 30.6 | 71             | 28.4 | 0.383  | >0.05   |

**Table (21) Distribution of the abused children according to the place of exposure to abuse:**

| Type of abuse   | Place of abuse |      |      |      |         |      |       |      |
|-----------------|----------------|------|------|------|---------|------|-------|------|
|                 | School         |      | Home |      | Outside |      | Total |      |
|                 | No             | %    | No   | %    | No      | %    | No    | %    |
| Physical abuse  | 6              | 11.2 | 12   | 17.6 | 33      | 25.6 | 51    | 20.4 |
| Emotional abuse | 10             | 18.8 | 13   | 19.2 | 37      | 28.7 | 60    | 24   |
| Sexual abuse    | 11             | 20.8 | 3    | 4.4  | 10      | 7.8  | 24    | 9.6  |
| Neglect         | 15             | 28.4 | 20   | 29.4 | 9       | 6.9  | 44    | 17.6 |
| Combined form   | 11             | 20.8 | 20   | 29.4 | 40      | 31   | 71    | 28.4 |
| Total           | 53             | 21.2 | 68   | 27.2 | 129     | 51.6 | 250   | 100  |

$$X^2=34.29$$

$$P<0.05$$



**VI-Female circumcision and emotional problems:**

**Table (22)** shows the relationship between female circumcision and depression. Higher percentage of circumcised females were depressed 71% when compared with the not circumcised females where 31% of them were depressed. This difference was of statistical significance,  $P < 0.05$ .

**Table (23)** shows the relationship between circumcision and emotional symptoms score. The highest percentage of circumcised female 71.7% were of high need for help. While the highest percentage 58.4% of the not circumcised females was of low need for help. These differences were of statistical significance,  $P < 0.05$ .

**Table (22) Relationship between female circumcision and depression:**

| Level of depression | Circumcision |    |                 |    |       |     |
|---------------------|--------------|----|-----------------|----|-------|-----|
|                     | Circumcised  |    | Not circumcised |    | Total |     |
|                     | No           | %  | No              | %  | No    | %   |
| Depressed           | 70           | 71 | 24              | 31 | 94    | 54  |
| Not depressed       | 28           | 29 | 53              | 69 | 81    | 46  |
| Total               | 98           | 56 | 77              | 44 | 175   | 100 |

 **$X^2=26.5$**  **$P<0.05$**

**Table (23) Relationship between female circumcision and the emotional symptom score:**

| Circumcision    | The emotional symptom score |      |           |      |           |      |       |     |
|-----------------|-----------------------------|------|-----------|------|-----------|------|-------|-----|
|                 | Low need                    |      | Some need |      | High need |      | Total |     |
|                 | No                          | %    | No        | %    | No        | %    | No    | %   |
| Circumcised     | 27                          | 41.6 | 28        | 56   | 43        | 71.7 | 98    | 56  |
| Not Circumcised | 38                          | 58.4 | 22        | 44   | 17        | 28.3 | 77    | 44  |
| Total           | 65                          | 37.1 | 50        | 28.6 | 60        | 34.3 | 175   | 100 |

$$X^2=11.49$$

$$P<0.05$$