**Table 1: Distribution of children with** **cerebral palsy based on age (n=41)**

|  |  |  |
| --- | --- | --- |
| Age of child | Frequency | Percentage |
| 0-4 | 26 | 63.4 |
| 4+ | 15 | 36.6 |
| Total | 41 | 100.0 |

Table 1 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 63.4% (n=26) were 0-4 years old and a small number of children 36.6% (n=15) were greater than 4 years.

**Table 2: Distribution of children with** **cerebral palsy based on sex (n=41)**

|  |  |  |
| --- | --- | --- |
| Sex of child | Frequency | Percentage |
| Male | 22 | 53.7 |
| Female | 19 | 46.3 |
| Total | 41 | 100.0 |

Table 2 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 53.7% (n=22) were male and a small number of children 46.3% (n=19) were female.

**Table 3: Distribution of children with** **cerebral palsy based on place of residence (n=41)**

|  |  |  |
| --- | --- | --- |
| Place of residence | Frequency | Percentage |
| Rural | 16 | 39.0 |
| Urban | 25 | 61.0 |
| Total | 41 | 100.0 |

Table 3 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 61.0% (n=25) came from urban areas and a small number of children 39.0% (n=16) were came from rural areas.

**Table 4: Distribution of children with** **cerebral palsy based on respondent’s age (n=41)**

|  |  |  |
| --- | --- | --- |
| Respondent’s age | Frequency | Percentage |
| 15-30 | 24 | 58.5 |
| 30+ | 17 | 41.5 |
| Total | 41 | 100.0 |

Table 4 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 58.5% (n=24 have 15-30 years respondents and a small number of children 41.5% (n=17) of children have respondents greater than 30 years.

**Table 5: Distribution of children with** **cerebral palsy based on respondent’s sex (n=41)**

|  |  |  |
| --- | --- | --- |
| Respondent’s sex | Frequency | Percentage |
| Male | 3 | 7.3 |
| Female | 38 | 92.7 |
| Total | 41 | 100.0 |

Table 5 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 92.7% (n=38) have female respondents and a small number of children 7.3% (n=3) of children have male respondents.

**Table 6: Distribution of children with** **cerebral palsy based on respondent’s education (n=41)**

|  |  |  |
| --- | --- | --- |
| Respondent’s education | Frequency | Percentage |
| Below secondary | 15 | 36.6 |
| Secondary or higher | 26 | 63.4 |
| Total | 41 | 100.0 |

Table 6 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 63.4% (n=26) have respondents with secondary or higher education status and a small number of children 36.6% (n=15) of children have respondents with below secondary educational status.

**Table 7: Distribution of children with** **cerebral palsy based on age relation with respondents (n=36)**

|  |  |  |
| --- | --- | --- |
| Relation with respondents | Frequency | Percentage |
| Mother | 37 | 90.2 |
| Others | 4 | 9.8 |
| Total | 41 | 100.0 |

Table 7 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 90.2% (n=37) children respondents were mother and a small number of children 9.8% (n=4) of children have respondents was other than mother.

**Table 8: Distribution of children with** **cerebral palsy based on age father’s income (n=41)**

|  |  |  |
| --- | --- | --- |
| Father’s income | Frequency | Percentage |
| Below 20000 | 30 | 73.2 |
| 20000+ | 11 | 26.8 |
| Total | 41 | 100.0 |

Table 8 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 73.2% (n=30) child father income below 20000 and a small number of children 26.8% (n=11) of child father earn more than 20000.

**Table 9: Distribution of children with** **cerebral palsy based on age cost contributors (n=41)**

|  |  |  |
| --- | --- | --- |
| Cost contributors | Frequency | Percentage |
| Father | 31 | 75.6 |
| Others | 10 | 24.4 |
| Total | 41 | 100 |

Table 9 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number 75.6% (n=31) child cerebral palsy cost were contributed by father and other child cost contributed by others.

**Table 10: Distribution of cost type with children with cerebral palsy (n=36) in the last 3 months:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Cost Type | Mean | SD | Min | Max |
| **Direct cost** |  |  |  |  |
| Doctors Consultation Fee | 967.07 | 925.99 | 0 | 5000 |
| Admission fee | 3785.37 | 8829.40 | 0 | 50000 |
| Medicine cost | 7842.93 | 38805.50 | 0 | 250000 |
| Test / diagnostic fee | 5223.17 | 10981.87 | 0 | 64000 |
| Others (Services like physiotherapy, occupational therapy, speech therapy, counselling, nutritional counselling etc.) | 1708.54 | 3018.44 | 0 | 19000 |
| Cost for Assisted Devices | 2017.07 | 3252.43 | 0 | 15000 |
| **Indirect cost** |  |  |  |  |
| Food and transport cost | 3259.76 | 6353.69 | 100 | 35000 |
| Others cost | 1121.95 | 1286.37 | 0 | 5000 |
| Total cost | 25925.85 | 52619.24 | 150 | 335950 |

Based on Table 10, average cost incurred by families of children with CP was 25925.85 BDT. Overall, direct medicine costs are the highest burden (7842.93 BDT) of the Bangladeshi family over the all types of cost. Rather than medicine cost, on average, families of children with CP spend highest 5223.17 for direct test/diagnostic costs. Followed by, 3785.37 BDT for admission costs, 3259.76 for indirect food and transport costs.

**Table 11:** **Mean difference of total cost by condition of children with** **cerebral palsy**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | n (%) | Total cost | | P-Value |
|  | Mean | SD |  |
| **Frequency of illness** |  |  |  |  |
| No illness | 9 (22.0) | 6477.78 | 3659.76 | .085 |
| One times | 15 (36.6) | 20260.00 | 20791.64 |  |
| Two times | 10 (24.4) | 20860.00 | 17388.02 |  |
| Three times | 7 (17.1) | 70307.14 | 118280.08 |  |
| **Limb involvement** |  |  |  |  |
| Monoplegic | 3 (7.3) | 10583.33 | 5385.24 | 0.791 |
| Hemiplegic | 18 (43.9) | 20761.67 | 20310.78 |  |
| Diaplegic | 1 (2.4) | 3800.00 | - |  |
| Quadriplegic | 19 (46.3) | 34405.26 | 74773.19 |  |
| **Domain affected** |  |  |  |  |
| Less than two | 5 (12.2) | 15540.00 | 19972.56 | 0.381 |
| Two | 6 (14.6) | 7875.00 | 1835.14 |  |
| Three | 10 (24.4) | 12370.00 | 10032.81 |  |
| Greater than three | 20 (48.8) | 40715.50 | 72375.63 |  |
| Total | 41 (100) | 25925.85 | 52619.24 |  |

Table 11 represents the percentage of 41 children with cerebral palsy. Among 41 children, a large number of children 36.6% (n=15) were face illness one times in last three months and the mean cost for treatment was 208600 BDT. However, the mean cost was highest for children face illness with three times in last three months.

Among 41 children, a large number of children 46.3% (n=19) were face Quadriplegic limb involvement in last three months and the mean cost for treatment was highest (34405.26 BDT) among all other limb involvement.

Among 41 children, a large number of children 48.8% (n=20) were face domain affected greater than three in last three months and the mean cost for treatment was highest (40715. BDT) among all other domain.

**Table 12: Comparison of CP economic burden according to age group**

|  |  |  |  |
| --- | --- | --- | --- |
| Cost Type | 0-4 years old | 4+ years old | P-value |
| **Direct cost** |  |  |  |
| Doctors Consultation Fee | 1011.54 | 890.00 | 0.691 |
| Admission fee | 4773.08 | 2073.33 | 0.352 |
| Medicine cost | 11521.54 | 1466.67 | 0.431 |
| Test / diagnostic fee | 7138.46 | 1903.33 | 0.144 |
| Others (Services like physiotherapy, occupational therapy, speech therapy, counselling, nutritional counselling etc.) | 1446.15 | 2163.33 | 0.471 |
| Cost for Assisted Devices | 1538.46 | 2846.67 | 0.219 |
| **Indirect cost** |  |  |  |
| Food and transport cost | 4215.38 | 1603.33 | 0.209 |
| Others cost | 1084.62 | 1186.67 | 0.810 |

Based on Table 12, direct medicine costs are the highest burden (11521.54 BDT) of the children aged 0-4 years, over the all types of cost. Rather than medicine cost, on average, families of 0-4 years of children with CP spend highest 7138.46 for direct test/diagnostic costs. Followed by, 4773.08 BDT for admission costs, 4215.38 for indirect food and transport costs. However, children age greater than 4 years families spend highest (2846.67 BDT) for direct cost for assisted devices.

**Table 13: Comparison of CP economic burden according to education**

|  |  |  |  |
| --- | --- | --- | --- |
| Cost Type | Below secondary | Secondary or higher | P-value |
| **Direct cost** |  |  |  |
| Doctors Consultation Fee | 830.00 | 1046.15 | 0.479 |
| Admission fee | 1633.33 | 5026.92 | 0.241 |
| Medicine cost | 1506.67 | 11498.46 | 0.434 |
| Test / diagnostic fee | 2136.67 | 7003.85 | 0.175 |
| Others (Services like physiotherapy, occupational therapy, speech therapy, counselling, nutritional counselling etc.) | 2140.00 | 1459.62 | 0.494 |
| Cost for Assisted Devices | 2300.00 | 1853.85 | 0.678 |
| **Indirect cost** |  |  |  |
| Food and transport cost | 1950.00 | 4015.38 | 0.322 |
| Others cost | 986.67 | 1200.00 | 0.615 |

Based on Table 13, direct cost for assisted devices is the highest burden (2300.00 BDT) of the children with below secondary respondents, over the all types of cost. Rather than cost for assisted devices, on average, below secondary respondents with CP children spend highest 2140 for direct others costs. Followed by, 2136.67 BDT for test/diagnostic costs, 1950.00 for indirect food and transport costs. However, children with secondary or higher educational respondents spend highest (11498.46 BDT) for direct medicine cost.

**Table 4: Mean difference of total cost by socio-economic characteristics of children with** **cerebral palsy (Two sample T-test)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Total cost | | P-Value |
| **Age in months** | Mean | SD |  |
| 0-4 | 32729.23 | 65092.74 | 0.281 |
| 4+ | 14133.33 | 10472.32 |  |
| **Sex of child** |  |  |  |
| Male | 18159.09 | 18865.61 | 0.315 |
| Female | 34918.95 | 74689.55 |  |
| **Place of residence** |  |  |  |
| Rural | 38943.75 | 81138.25 | 0.209 |
| Urban | 17594.40 | 17740.45 |  |
| **Father’s Income** |  |  |  |
| Below 20000 | 26775.00 | 60109.46 | 0.867 |
| 20000+ | 23610.00 | 24268.29 |  |
| **Mother’s Age** |  |  |  |
| 15-30 | 18242.08 | 18474.51 | 0.272 |
| 30+ | 36773.53 | 78852.68 |  |
| **Sex of respondent** |  |  |  |
| Male | 46100.00 | 15908.49 | 0.497 |
| Female | 24333.16 | 54258.60 |  |
| **Respondents education** |  |  |  |
| Below secondary | 13483.33 | 9359.31 | 0.255 |
| Secondary or higher | 33104.23 | 65073.20 |  |
| **Relation with child** |  |  |  |
| Mother | 24819.19 | 54923.10 | 0.687 |
| Others | 36162.50 | 23743.12 |  |
| **Cost contributors** |  |  |  |
| Father | 29691.94 | 59957.99 | 0.427 |
| Others | 14251.00 | 11054.55 |  |

The mean cost of age 0-4 years and greater than 4 year of children with CP is 32729.23 and 14133.33, respectively. The mean cost of male and female children with CP is 18159.09 and 34918.95, respectively. The mean cost of rural and urban children with CP is 38943.75and 17594.40, respectively.

**Table 5: Association between effects in the family due to the treatment cost of children with** **cerebral palsy with socio-economic characteristics**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Effect | | P-Value |
| **Age in months** | **Low** | **High** |  |
| 0-4 | 11 (42.3) | 15 (57.7) | 0.281 |
| 4+ | 4 (26.7) | 11 (73.3) |  |
| **Sex of child** |  |  |  |
| Male | 9 (40.9) | 13 (59.1) | 0.536 |
| Female | 6 (31.6) | 13 (68.4) |  |
| **Place of residence** |  |  |  |
| Rural | 5 (31.3) | 11 (68.8) | 0.209 |
| Urban | 10 (40.0) | 15 (60.0) |  |
| **Father’s Income** |  |  |  |
| Below 20000 | 10 (33.3) | 20 (66.7) | 0.067 |
| 20000+ | 5 (45.5) | 6 (54.5) |  |
| **Mother’s Age** |  |  |  |
| 15-30 | 6 (25.0) | 18 (75.0) | 0.272 |
| 30+ | 9 (52.9) | 8 (47.1) |  |
| **Sex of respondent** |  |  |  |
| Male | 2 (66.7) | 1 (33.3) | 0.261 |
| Female | 13 (34.2) | 25 (65.8) |  |
| **Respondents education** |  |  |  |
| Below secondary | 6 (40.0) | 9 (60.0) | 0.730 |
| Secondary or higher | 9 (34.6) | 17 (65.4) |  |
| **Relation with child** |  |  |  |
| Mother | 13 (35.1) | 24 (64.9) | 0.558 |
| Others | 2 (50.0) | 2 (50.0) |  |
| **Cost contributors** |  |  |  |
| Father | 10 (33.3) | 20 (66.7) | 0.427 |
| Others | 5 (45.5) | 6 (54.5) |  |
| **Total** | 15 (36.6) | 26 (63.4) |  |