**TITLE: Study of Prevalence of Asthma in School Children in Pune and Its Relation with Family History of Asthma and Allergic Disorders**

**RUNNING TITLE- Study of Prevalence of Asthma in School Children in Pune**

**Table No.1- Demographic Data of Study Population**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | Cohort | Asthma | p value |
| N=815 | N=50 |
| Age (years) | 5-8 | 230  (28.22%) | 16  (32%) | 0.7483 |
| 9-11 | 270  (33.12%) | 17  (34%) |
| 12-15 | 315  (38.65%) | 17  (34%) |
| Sex | Male | 472  (57.91%) | 30  (60%) | 0.7578 |
| Female | 343  (42.08%) | 20  (40%) |
| Male : Female | 1.38 :1 | 1.5 :1 |  |
| Medium of education | Marathi | 368  (45.15%) | 14  (28%) | 0.01188 |
| English | 447  (54.85%) | 36  (72%) |

**Table No.2 Prevalence of Asthma**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age  (years) | Male | | | p value | Female | | | p  value | Total | | |
| Total | Asthmatic | Prevalence | Total | Asthmatic | Prevalence | Total | Asthmatic | Prevalence |
| 5-8 | 138 | 9 | 6.52% | 0.9810 | 92 | 7 | 7.60% | 0.6122 | 230 | 16 | 6.96% |
| 9-11 | 153 | 10 | 6.53% | 117 | 7 | 5.98% | 270 | 17 | 6.29% |
| 12-15 | 181 | 11 | 6.08% | 134 | 6 | 4.48% | 315 | 17 | 5.39% |
| Total | 472 | 30 | 6.36% |  | 343 | 20 | 5.83% |  | 815 | 50 | 6.13% |

**Table No.3- Risk Factors for Asthma**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Cohort | Asthma | P value |
|  | N=815 | N=50 |  |
| Family history of asthma | 90  (11.05%) | 31  (62%) | P<0.0001 |
| Family history of allergic disorder | 60  (7.36%) | 28  (56%) | P<0.0001 |

**Table No.4 – Association of Risk Factors for Asthma& PEFR**

|  |  |  |  |
| --- | --- | --- | --- |
|  | LOW PEFR | NORMAL PEFR | P value |
| 28 | 22 |  |
| Family history of asthma | 18  (64.3%) | 13  (59.1%) | 0.7072 |
| No Family history of asthma | 10  (35.7%) | 9  (40.9%) |
| Family history of allergic disease | 16  (57.1%) | 12  (54.5%) | 0.8543 |
| No Family history of allergic disease | 12 (42.9%) | 10  (45.5%) |
| Medium of Education:  English | 21  (75%) | 15  (68.18%) | 0.5940 |
| Medium of Education:  Marathi | 7  (25%) | 7  (31.81%) |