Cleft Anomalies

2024-06-17

| **Characteristic** | **N = 63**1 |
| --- | --- |
| Age | 13.31 (10.05) |
| Age Category |  |
| 0 - 9 | 35.0 / 63.0 (55.6%) |
| 10 - 19 | 17.0 / 63.0 (27.0%) |
| 20 - 29 | 6.0 / 63.0 (9.5%) |
| 30 - 39 | 2.0 / 63.0 (3.2%) |
| 40 - 49 | 2.0 / 63.0 (3.2%) |
| 50 - 59 | 1.0 / 63.0 (1.6%) |
| Gender |  |
| Female | 41.0 / 63.0 (65.1%) |
| Male | 22.0 / 63.0 (34.9%) |
| 1Mean (SD); n / N (%) | |

| **Characteristic** | **N = 63**1 |
| --- | --- |
| Type of Cleft |  |
| Cleft Lip | 1.0 / 63.0 (1.6%) |
| Cleft Lip and Alveolus | 12.0 / 63.0 (19.0%) |
| Cleft Lip and Palate | 47.0 / 63.0 (74.6%) |
| Incomplete Lip | 1.0 / 63.0 (1.6%) |
| Isolated cleft palate | 2.0 / 63.0 (3.2%) |
| Cleft Symmetry |  |
| Bilateral | 15.0 / 61.0 (24.6%) |
| Unilateral | 46.0 / 61.0 (75.4%) |
| Cleft Side |  |
| Left | 34.0 / 61.0 (55.7%) |
| Left and Right | 15.0 / 61.0 (24.6%) |
| Right | 12.0 / 61.0 (19.7%) |
| 1n / N (%) | |

Table 1: Anomalies Summary

Summary of Various Dental Anomalies

| **Characteristic** | **N = 63***1* |
| --- | --- |
| Dental Anomaly Present | 59.0 / 63.0 (93.7%) |
| Odontome | 3.0 / 63.0 (4.8%) |
| Hypodontia |  |
| 0 | 24.0 / 63.0 (38.1%) |
| 1 | 15.0 / 63.0 (23.8%) |
| 2 | 13.0 / 63.0 (20.6%) |
| 3 | 6.0 / 63.0 (9.5%) |
| 4 | 4.0 / 63.0 (6.3%) |
| 6 | 1.0 / 63.0 (1.6%) |
| Peg Shaped Teeth |  |
| 0 | 53.0 / 63.0 (84.1%) |
| 1 | 7.0 / 63.0 (11.1%) |
| 2 | 3.0 / 63.0 (4.8%) |
| Impacted Teeth |  |
| 0 | 49.0 / 63.0 (77.8%) |
| 1 | 10.0 / 63.0 (15.9%) |
| 2 | 2.0 / 63.0 (3.2%) |
| 3 | 2.0 / 63.0 (3.2%) |
| Transposition |  |
| 0 | 61.0 / 63.0 (96.8%) |
| 1 | 1.0 / 63.0 (1.6%) |
| 2 | 1.0 / 63.0 (1.6%) |
| Microdontia |  |
| 0 | 46.0 / 63.0 (73.0%) |
| 1 | 11.0 / 63.0 (17.5%) |
| 2 | 5.0 / 63.0 (7.9%) |
| 3 | 1.0 / 63.0 (1.6%) |
| Supernumerary Teeth | 2.0 / 63.0 (3.2%) |
| Ectopic Eruption | 1.0 / 63.0 (1.6%) |
| Late Developing Teeth | 1.0 / 63.0 (1.6%) |
| *1*n / N (%) | |

| **Characteristic** | **Overall**, N = 631 | **Cleft Lip**, N = 11 | **Cleft Lip and Alveolus**, N = 121 | **Cleft Lip and Palate**, N = 471 | **Incomplete Lip**, N = 11 | **Isolated cleft palate**, N = 21 | **p-value**2 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Odontome** | 3.0 (100.0%) | 0.0 (0.0%) | 1.0 (33.3%) | 2.0 (66.7%) | 0.0 (0.0%) | 0.0 (0.0%) | 0.6 |
| **Hypodontia** | 39.0 (100.0%) | 1.0 (2.6%) | 6.0 (15.4%) | 31.0 (79.5%) | 1.0 (2.6%) | 0.0 (0.0%) | 0.2 |
| **Peg Shaped Teeth** | 10.0 (100.0%) | 0.0 (0.0%) | 3.0 (30.0%) | 6.0 (60.0%) | 0.0 (0.0%) | 1.0 (10.0%) | 0.4 |
| **Impacted Teeth** | 14.0 (100.0%) | 0.0 (0.0%) | 2.0 (14.3%) | 12.0 (85.7%) | 0.0 (0.0%) | 0.0 (0.0%) | 0.9 |
| **Transposition** | 2.0 (100.0%) | 0.0 (0.0%) | 1.0 (50.0%) | 1.0 (50.0%) | 0.0 (0.0%) | 0.0 (0.0%) | 0.4 |
| **Microdontia** | 17.0 (100.0%) | 0.0 (0.0%) | 3.0 (17.6%) | 13.0 (76.5%) | 0.0 (0.0%) | 1.0 (5.9%) | 0.9 |
| **Supernumerary Teeth** | 2.0 (100.0%) | 0.0 (0.0%) | 0.0 (0.0%) | 2.0 (100.0%) | 0.0 (0.0%) | 0.0 (0.0%) | >0.9 |
| **Ectopic Teeth** | 1.0 (100.0%) | 0.0 (0.0%) | 0.0 (0.0%) | 1.0 (100.0%) | 0.0 (0.0%) | 0.0 (0.0%) | >0.9 |
| **Late Developing Teeth** | 1.0 (100.0%) | 0.0 (0.0%) | 0.0 (0.0%) | 1.0 (100.0%) | 0.0 (0.0%) | 0.0 (0.0%) | >0.9 |
| 1n (%) | | | | | | | |
| 2Fisher's exact test | | | | | | | |

| **Variable** | **Female**, N = 41*1* | **Male**, N = 22*1* | **p-value***2* |
| --- | --- | --- | --- |
| **Type of Cleft** |  |  | 0.7 |
| *Cleft Lip* | 1.0 (2.4%) | 0.0 (0.0%) |  |
| *Cleft Lip and Alveolus* | 6.0 (14.6%) | 6.0 (27.3%) |  |
| *Cleft Lip and Palate* | 31.0 (75.6%) | 16.0 (72.7%) |  |
| *Incomplete Lip* | 1.0 (2.4%) | 0.0 (0.0%) |  |
| *Isolated cleft palate* | 2.0 (4.9%) | 0.0 (0.0%) |  |
| **Cleft Symmetry/Pattern of Cleft** |  |  | 0.7 |
| *Bilateral* | 9.0 (23.1%) | 6.0 (27.3%) |  |
| *Unilateral* | 30.0 (76.9%) | 16.0 (72.7%) |  |
| *Unknown* | 2 | 0 |  |
| **Cleft Lip Side** |  |  | 0.8 |
| *Left* | 21.0 (53.8%) | 13.0 (59.1%) |  |
| *Left and Right* | 9.0 (23.1%) | 6.0 (27.3%) |  |
| *Right* | 9.0 (23.1%) | 3.0 (13.6%) |  |
| *Unknown* | 2 | 0 |  |
| *1*n (%) | | | |
| *2*Fisher's exact test; Pearson's Chi-squared test | | | |

|  | Cleft Lip and Alveolus | | | Cleft Lip and Palate | | | Cleft Lip | Incomplete Lip | Isolated cleft palate |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Characteristic** | **Bilateral**, N = 2*1* | **Unilateral**, N = 10*1* | **p-value***2* | **Bilateral**, N = 13*1* | **Unilateral**, N = 34*1* | **p-value***2* | **Unilateral**, N = 1*1* | **Unilateral**, N = 1*1* | **N = 2***1* |
| **Gender** |  |  | 0.5 |  |  | >0.9 |  |  |  |
| *Female* | 0.0 (0.0%) | 6.0 (60.0%) |  | 9.0 (69.2%) | 22.0 (64.7%) |  | 1.0 (100.0%) | 1.0 (100.0%) | 2.0 (100.0%) |
| *Male* | 2.0 (100.0%) | 4.0 (40.0%) |  | 4.0 (30.8%) | 12.0 (35.3%) |  |  |  |  |
| *1*n (%) | | | | | | | | | |
| *2*Fisher's exact test | | | | | | | | | |

|  | **Anomaly Present by Type of Cleft** | | **Type of Cleft by Cleft Lip Side** | | |
| --- | --- | --- | --- | --- | --- |
| **Characteristic** | **No**, N = 41 | **Yes**, N = 591 | **Left**, N = 341 | **Left and Right**, N = 151 | **Right**, N = 121 |
| Type of Cleft |  |  |  |  |  |
| Cleft Lip | 0 / 1 (0%) | 1 / 1 (100%) | 1 / 1 (100%) | 0 / 1 (0%) | 0 / 1 (0%) |
| Cleft Lip and Alveolus | 3 / 12 (25%) | 9 / 12 (75%) | 8 / 12 (67%) | 2 / 12 (17%) | 2 / 12 (17%) |
| Cleft Lip and Palate | 1 / 47 (2.1%) | 46 / 47 (98%) | 25 / 47 (53%) | 13 / 47 (28%) | 9 / 47 (19%) |
| Incomplete Lip | 0 / 1 (0%) | 1 / 1 (100%) | 0 / 1 (0%) | 0 / 1 (0%) | 1 / 1 (100%) |
| Isolated cleft palate | 0 / 2 (0%) | 2 / 2 (100%) |  |  |  |
| 1n / N (%) | | | | | |

| **Characteristic** | **Overall**, N = 461 | **Left**, N = 341 | **Right**, N = 121 | **p-value**2 |
| --- | --- | --- | --- | --- |
| Cleft Side Anomalies |  |  |  | 0.016 |
| 0 | 4 (8.7%) | 2 (5.9%) | 2 (17%) |  |
| 1 | 27 (59%) | 17 (50%) | 10 (83%) |  |
| 2 | 13 (28%) | 13 (38%) | 0 (0%) |  |
| 3 | 2 (4.3%) | 2 (5.9%) | 0 (0%) |  |
| Non-Cleft Side Anomalies |  |  |  | 0.6 |
| 0 | 17 (37%) | 11 (32%) | 6 (50%) |  |
| 1 | 21 (46%) | 17 (50%) | 4 (33%) |  |
| 2 | 7 (15%) | 5 (15%) | 2 (17%) |  |
| 4 | 1 (2.2%) | 1 (2.9%) | 0 (0%) |  |
| Total Anomalies | 2 (1, 3) | 2 (1, 3) | 1 (1, 2) | 0.031 |
| 1n (%); Median (IQR) | | | | |
| 2Fisher's exact test; Wilcoxon rank sum test | | | | |

| **Characteristic** | **Overall**, N = 631 | **Female**, N = 411 | **Male**, N = 221 | **p-value**2 |
| --- | --- | --- | --- | --- |
| **odontome** | 3.0 (100.0%) | 1.0 (33.3%) | 2.0 (66.7%) | 0.3 |
| **hypodontia\_present** | 39.0 (100.0%) | 24.0 (61.5%) | 15.0 (38.5%) | 0.5 |
| **peg\_present** | 10.0 (100.0%) | 7.0 (70.0%) | 3.0 (30.0%) | >0.9 |
| **impacted\_present** | 14.0 (100.0%) | 9.0 (64.3%) | 5.0 (35.7%) | >0.9 |
| **transposition\_present** | 2.0 (100.0%) | 1.0 (50.0%) | 1.0 (50.0%) | >0.9 |
| **microdont\_present** | 17.0 (100.0%) | 11.0 (64.7%) | 6.0 (35.3%) | >0.9 |
| **supernumerary\_present** | 2.0 (100.0%) | 2.0 (100.0%) | 0.0 (0.0%) | 0.5 |
| **ectopic\_present** | 1.0 (100.0%) | 1.0 (100.0%) | 0.0 (0.0%) | >0.9 |
| **late\_present** | 1.0 (100.0%) | 0.0 (0.0%) | 1.0 (100.0%) | 0.3 |
| 1n (%) | | | | |
| 2Fisher's exact test; Pearson's Chi-squared test | | | | |