CSF Study - Adam Green

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**Statistical Methods**

Summary statistics were produced for all demographic and CSF variables. Counts and proportions [n (%)] were used for categorical variables. Mean and standard deviation [mean±sd] were used for continuous variables if normally distributed. CSF variables were not normally distributed, so median and interquartile range (IQR) were reported. The number of patients that have values for each CSF variable is represented by the non-missing summary percentage.

**Table 1: Demographics**

|  |  |
| --- | --- |
| **Characteristic** | **All (n=378)** |
| Age at Dx, years\* | 7.8±5.7 |
| Diagnosis Category |  |
| ATRT | 23 (6%) |
| Choroid Plexus Carcinoma | 5 (1%) |
| Choroid Plexus Papilloma | 5 (1%) |
| Craniopharngioma | 8 (2%) |
| Ependymoma | 47 (12%) |
| Germinoma | 31 (8%) |
| High-Grade Glioma | 21 (6%) |
| Low-Grade Glioma | 53 (14%) |
| Medulloblastoma | 111 (29%) |
| Meningioma | 3 (1%) |
| Non-germinomatous germ cell tumor | 13 (3%) |
| Other | 30 (8%) |
| Other Embryonal Tumor | 28 (7%) |
| Grade Category |  |
| High | 279 (74%) |
| Low | 69 (18%) |
| Other | 30 (8%) |
| Death |  |
| No | 278 (74%) |
| Yes | 100 (26%) |
| Days to Death | 448 (191, 937.8) |

\*mean, standard deviation

All summary statistics are count (percentage) or median (interquartile range, IQR), unless denoted by \*.

**Table 2: CSF Characteristics**

|  |  |
| --- | --- |
| **Characteristic** | **All (n=378)** |
| Days from Dx to CSF Collection | 8 (0, 15) |
| CSF Malignancy |  |
| Malignant | 210 (56%) |
| Non-Malignant | 168 (44%) |
| Nucleated Cells (non-missing) | 376 (99%) |
| Nucleated Cells (WBC) | 6 (1, 27) |
| RBC (non-missing) | 376 (99%) |
| RBC | 64 (6.8, 663.5) |
| SEGS (non-missing) | 217 (57%) |
| SEGS (abs) | 460 (80, 6060) |
| SEGS (%) | 6 (2, 33) |
| Bands (non-missing) | 30 (8%) |
| Bands (abs) | 60 (20, 380) |
| Bands (%) | 2 (1, 3) |
| EOS (non-missing) | 42 (11%) |
| EOS (abs) | 260 (62.5, 2380) |
| EOS (%) | 1 (1, 2) |
| LYMPHS (non-missing) | 323 (85%) |
| LYMPHS (abs) | 4000 (920, 16117.5) |
| LYMPHS (%) | 71 (46, 86) |
| MONOCYTES (non-missing) | 313 (83%) |
| MONOCYTES (abs) | 860 (150, 3705) |
| MONOCYTES (%) | 11 (6, 20) |
| BLASTS PRELIM (non-missing) | 5 (1%) |
| BLASTS (abs) | 550 (80, 1620) |
| BLASTS PRELIM (%) | 6 (4, 11) |
| MACROPHAGES (non-missing) | 157 (42%) |
| MACROPHAGES (abs) | 240 (57.5, 1410) |
| MACROPHAGES (%) | 4 (2, 12) |
| LINING CELLS (non-missing) | 11 (3%) |
| LINING CELLS (abs) | 55 (10, 210) |
| LINING CELLS (%) | 4 (1.5, 6) |
| FLUID OTHER CELLS (non-missing) | 30 (8%) |
| FLUID OTHER CELLS (abs) | 165 (42.5, 630) |
| FLUID OTHER CELLS (%) | 2 (1, 6) |
| CYTO COUNT (non-missing) | 325 (86%) |
| CYTO COUNT | 100 (100, 100) |

All summary statistics are count (percentage) or median (interquartile range, IQR).