**Project**: Head and Neck Cancer Multivariate Blood Data

**Data Dictionary**

Suffix “.c1”, “.lfc” or “.delta” is used to indicate if the measurement relates to blood taken before treatment cycle 1 (baseline) or is the log fold change between cycle 2 and cycle 1 (log2(c2/c1)) or is the absolute difference between cycle 2 and 1 values (c2-c1). If there is no suffix the data is baseline.

The “.missing” variables indicate if a particular variable type is missing (value = 1) for that row.

The immune variables (9-34, except 25) are given as fractional values of their parent population. See also the gating strategy of the immune panels, below.

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| --- | --- | --- | --- |
| **Var** | **Variable Name** | **Description** | **Options** |
| 1 | Drug | Original trial arm | 1 = patient was given Patritumab  0 = patient was given placebo |
| 2 | Age | Patient age in years at joining the original trial |  |
| 3 | Sex | Birth sex | 1 = Female  0 = Male |
| 4 | Site | Site of primary cancer | Oral.Cavity  Oropharynx  Hypopharynx  Aryepiglottis  Larynx  Other |
| 5 | Prev.Cetux | Cetuximab given in a previous round of treatment | 1 = Yes  0 = No |
| 6 | HPV.status | HPV status at baseline | 1 = positive  0 = negative |
| 7 | Hereg.status | Heregulin Status at baseline | 1 = positive  0 = negative |
| 8 | Smoking | Patient declared smoking behaviour at baseline | 2 = Current  1 = Ex smoker  0 = Never smoked |
| 9 | CD33.Monocytes | CD33+CD14+ Monocytes (as fraction of CD3-CD19-CD33+ parent population) |  |
| 10 | T.cell.CD3 | CD3+, T Cells (as fraction of all cells) |  |
| 11 | T.cell.CD4 | CD4+ T Cells (as fraction of CD3+) |  |
| 12 | T.cell.CD4.Cent.Mem | CD4 Central Memory Cells (as fraction of CD4+) |  |
| 13 | T.cell.CD4.Effector | CD4 Effector Cells (as fraction of CD4+) |  |
| 14 | T.cell.CD4.Effect.Mem | CD4 Effector Memory Cells (as fraction of CD4+) |  |
| 15 | CD4.Naive | CD4 Naïve Cells (as fraction of CD4+) |  |
| 16 | CD4.Tregs | CD4 Regulatory T Cells (as fraction of CD4+) |  |
| 17 | CD4.Memory.Tregs | Memory Tregs (as fraction of CD4 Tregs) |  |
| 18 | CD4.Mem.Act.Tregs | Memory Activated Tregs (as fraction of CD4 Tregs) |  |
| 19 | CD4.Naive.Tregs | Naïve Tregs (as fraction of CD4 Tregs) |  |
| 20 | T.cell.CD8 | CD8+ T Cells (as fraction of CD3+) |  |
| 21 | CD8.Cent.Mem | CD8 Central Memory Cells (as fraction of CD8+) |  |
| 22 | CD8.Effector | CD8 Effector Cells (as fraction of CD8+) |  |
| 23 | CD8.Effect.Mem | CD8 Effector Memory Cells (as fraction of CD8+) |  |
| 24 | CD8.Naive | CD8 Naïve Cells (as fraction of CD8+) |  |
| 25 | CD4.CD8.ratio | Ratio of CD4 to CD8 T Cells |  |
| 26 | B.cell.CD19. | CD19+, B Cells (as fraction of all cells) |  |
| 27 | B.cell.mature | Mature B Cells (as fraction of CD19+) |  |
| 28 | B.cell.memory | Memory B Cells (as fraction of CD19+) |  |
| 29 | B.cell.Transitional | Transitional B Cells (as fraction of CD19+) |  |
| 30 | B.cell.plasma | Plasma B Cells (as fraction of CD19+) |  |
| 31 | B.cell.DN | Double Negative B Cells (as fraction of CD19+) |  |
| 32 | B.cell.naive | Naïve B Cells (as fraction of CD19+) |  |
| 33 | B.cell.pre.switch | Memory pre-switch B Cells (as fraction of CD19+) |  |
| 34 | B.cell.post.switch | Memory post-switch B Cells (as fraction of CD19+) |  |
| 35 | FRET | Degree of exosomal HER1-HER3 protein interaction determined by FRET-FLIM |  |
| 36 | normalised.miR.21.5 | Degree of exosomal microRNA, miR-21-5p, as determined by ddPCR |  |
| 37 | normalised.miR.142.3p | Degree of exosomal microRNA, miR-142-3p, as determined by ddPCR |  |
| 38 | t.PFS | PFS event or censored time (months) |  |
| 39 | event.PFS | PFS event type | 1 = progression event  0 = right censored |

**Gating Strategy of the immune panels:**

**Diagram

Description automatically generated**