# S2 Table

|  |  |  |  |
| --- | --- | --- | --- |
| Metric | PD-L1 Expression(IC group) | HR for Progression or Mortality | HR for Mortality |
| Intercept |
|  | IC0 | (base group) | (base group) |
|  | IC1 | [HR=0.29, 95% CI (0.079, 1.36)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_intercept_IC1) | [HR=0.23, 95% CI (0.054, 1.10)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_intercept_IC1) |
|  | IC2 | [HR=0.083, 95% CI (0.0087, 0.55)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_intercept_IC2) | [HR=0.023, 95% CI (0.00047, 0.30)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_intercept_IC2) |
| Liver Metastasis |
|  | IC0 | [HR=4.17, 95% CI (0.53, 33.98)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_liver_mets_IC0) | [HR=4.78, 95% CI (0.58, 53.10)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_liver_mets_IC0) |
|  | IC1 | [HR=4.27, 95% CI (1.15, 15.08)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_liver_mets_IC1) | [HR=4.11, 95% CI (0.91, 16.01)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_liver_mets_IC1) |
|  | IC2 | [HR=3.80, 95% CI (0.79, 22.70)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_liver_mets_IC2) | [HR=3.73, 95% CI (0.61, 24.52)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_liver_mets_IC2) |
| log(# Missense SNV / MB) |
|  | IC0 | [HR=1.00, 95% CI (0.49, 2.37)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_missense_snv_count_centered_by_pd_l1_IC0) | [HR=1.26, 95% CI (0.60, 3.19)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_missense_snv_count_centered_by_pd_l1_IC0) |
|  | IC1 | [HR=0.76, 95% CI (0.50, 1.16)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_missense_snv_count_centered_by_pd_l1_IC1) | [HR=0.83, 95% CI (0.50, 1.28)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_missense_snv_count_centered_by_pd_l1_IC1) |
|  | IC2 | [HR=0.53, 95% CI (0.33, 0.83)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_missense_snv_count_centered_by_pd_l1_IC2) | [HR=0.56, 95% CI (0.33, 1.00)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_missense_snv_count_centered_by_pd_l1_IC2) |
| log(Pre-Treatment TCR Clonality) |
|  | IC0 | [HR=1.51, 95% CI (0.32, 7.22)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_peripheral_clonality_a_centered_by_pd_l1_IC0) | [HR=1.08, 95% CI (0.21, 4.15)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_peripheral_clonality_a_centered_by_pd_l1_IC0) |
|  | IC1 | [HR=1.09, 95% CI (0.32, 3.46)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_peripheral_clonality_a_centered_by_pd_l1_IC1) | [HR=1.09, 95% CI (0.33, 3.81)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_peripheral_clonality_a_centered_by_pd_l1_IC1) |
|  | IC2 | [HR=50.87, 95% CI (2.99, 1486.55)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_peripheral_clonality_a_centered_by_pd_l1_IC2) | [HR=4895.08, 95% CI (80.81, 10374151.41)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_peripheral_clonality_a_centered_by_pd_l1_IC2) |
| log(TIL Proportion) |
|  | IC0 | [HR=0.12, 95% CI (0.0028, 3.46)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_tcell_fraction_centered_by_pd_l1_IC0) | [HR=0.053, 95% CI (0.00053, 11.87)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_tcell_fraction_centered_by_pd_l1_IC0) |
|  | IC1 | [HR=0.11, 95% CI (0.0077, 1.20)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_tcell_fraction_centered_by_pd_l1_IC1) | [HR=0.047, 95% CI (0.0018, 0.68)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_tcell_fraction_centered_by_pd_l1_IC1) |
|  | IC2 | [HR=0.078, 95% CI (0.0051, 1.07)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0pfs_log_tcell_fraction_centered_by_pd_l1_IC2) | [HR=0.026, 95% CI (0.00093, 0.40)](https://github.com/hammerlab/bladder-analyses/blob/master/analyses/notebooks/Multivariate%20models.ipynb?hyper=m0os_log_tcell_fraction_centered_by_pd_l1_IC2) |

Summary of results from multivariate survival analysis of various clinical, peripheral and intratumoral factors to estimate their independent association with hazard for disease progression or mortality (PFS) and for mortality (OS) according to level of intratumoral PD-L1 expression (IC grade). Results are summarized as median and 95% posterior intervals.