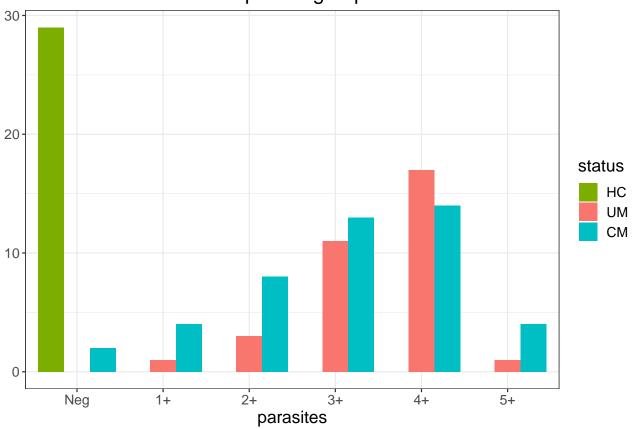
parasitemia

2022-12-18

Parasite counts in each patient group

parasites	НС	UM	CM
Neg	29	0	2
1+	0	1	4
2+	0	3	8
3+	0	11	13
4+	0	17	14
5+	0	1	4

Parasite counts in each patient group



Statistical tests to compare parasites in each patient group

Chi-squared

##

```
## Pearson's Chi-squared test
##
## data: df_parasite_counts %>% dplyr::select(-HC) %>% as.data.frame %>% column_to_rownames("paras
## X-squared = 6.6407, df = 5, p-value = 0.2488
```

Ordinal regression (?)

```
## # A tibble: 7 x 6
##
    term
                coefficient std_error t_stat coef_type
                                                                  p_val
                                 <dbl> <dbl> <chr>
##
     <chr>>
                       <dbl>
                                                                  <dbl>
## 1 parasites1+
                       7.45
                                 1.51
                                         4.93 coefficient 0.000000808
## 2 parasites2+
                       7.05
                                 1.22
                                         5.79 coefficient 0.00000000711
## 3 parasites3+
                        6.27
                                         5.81 coefficient 0.00000000621
                                 1.08
                                        5.66 coefficient 0.000000148
## 4 parasites4+
                        5.94
                                 1.05
## 5 parasites5+
                        7.45
                                 1.51
                                         4.93 coefficient 0.000000808
## 6 HC|UM
                        2.61
                                 0.733 3.56 scale
                                                          0.000377
## 7 UM | CM
                                 1.02
                        6.05
                                         5.92 scale
                                                          0.0000000319
```

Chi-squared (binarize parasites variable)

parasites_bin	UM	CM
low	15	27
high	18	18

```
##
## Pearson's Chi-squared test with Yates' continuity correction
##
## data: df_parasite_counts_binned %>% as.data.frame %>% column_to_rownames("parasites_bin")
## X-squared = 1.0883, df = 1, p-value = 0.2968
```

Logistic regression (binarize parasites variable)

```
## # A tibble: 2 x 5
##
     term
                       coefficient std_error t_stat p_value
##
     <chr>>
                                        <dbl> <dbl>
                             <dbl>
                             0.370
## 1 (Intercept)
                                        0.241 1.53
                                                       0.125
## 2 parasites_binhigh
                             19.2
                                     1768.
                                              0.0109
                                                       0.991
```

HRP & parasitemia in CM patients

hrp2	parasitemia	
9531 (5116.5, 10810.5)	29500 (4593, 162200)	