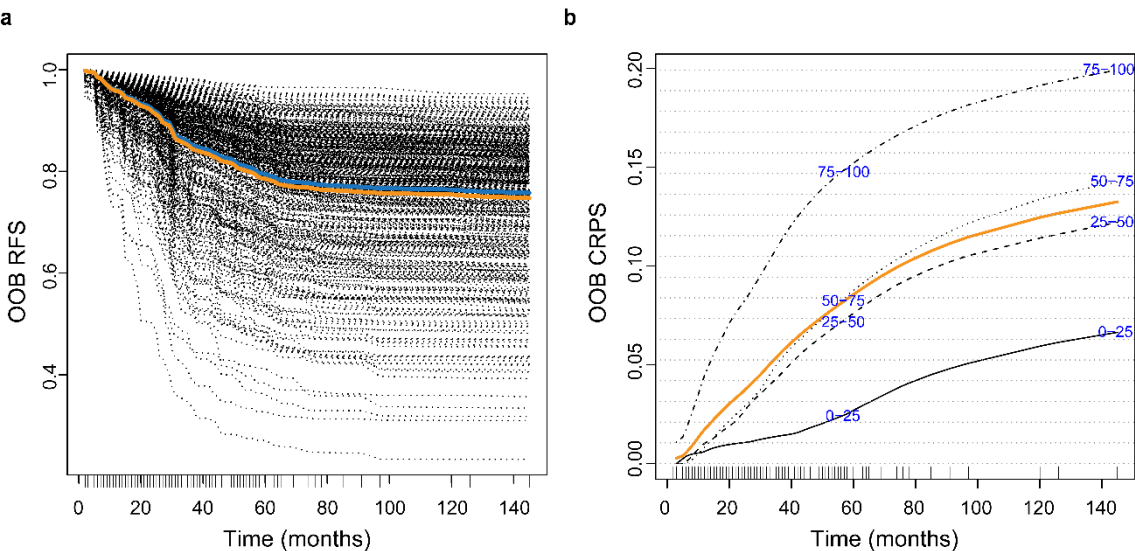


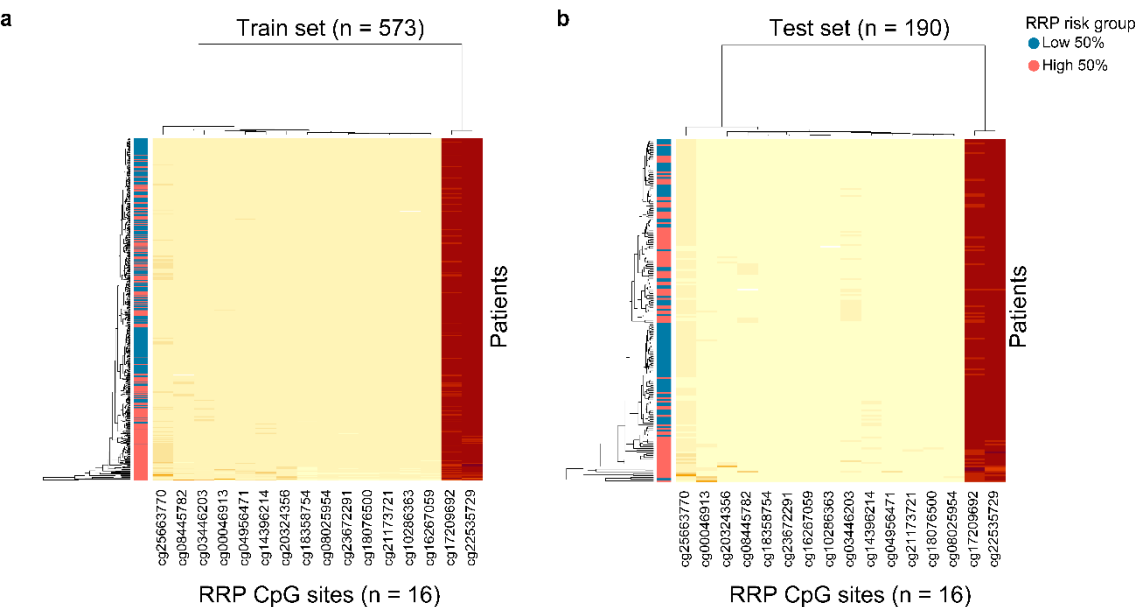
Supplementary Figure 1

a) Out-of-bag estimations of RFS for each patient in the training 348 set. Each line represents the RFS probability for each patient at different time points. **b)** CRPS 349 plots for the estimation of RFS in the training set for the entire cohort (orange line) and 350 stratified according to each of the relapse risk quartiles derived by the model (black lines).



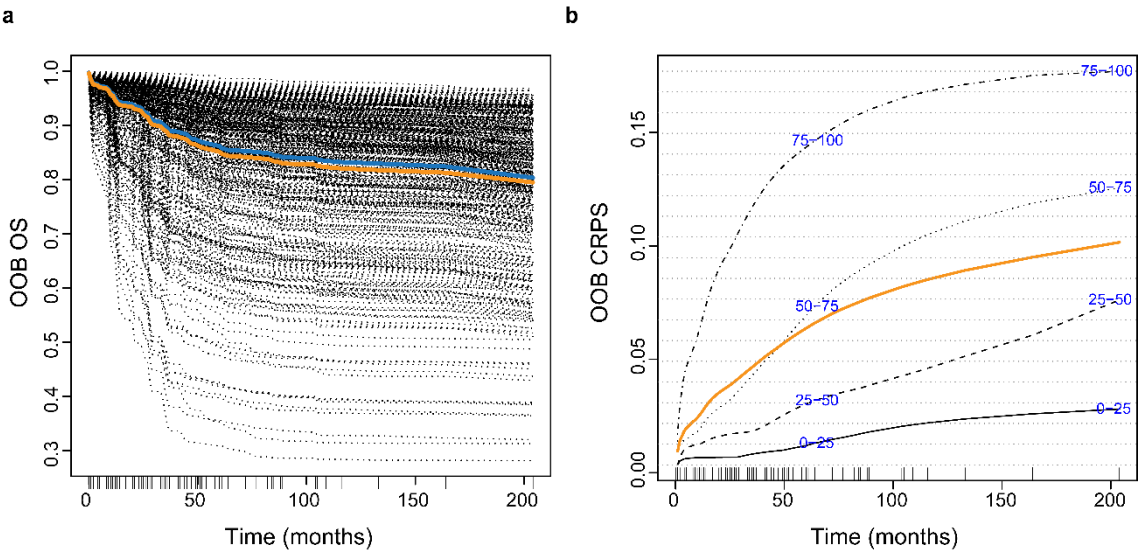
Supplementary Figure 2

Heatmap plots representing the Beta values of each CpG included 352 in the relapse risk predictor (RRP). a-b) Representation of the DNA methylation values of the 353 16 CpG dinucleotides included in the RRP in the training (a) and test (b) sets. Patients in the 354 lower and higher 50% of risk groups are labeled in blue and coral in the lateral bar.



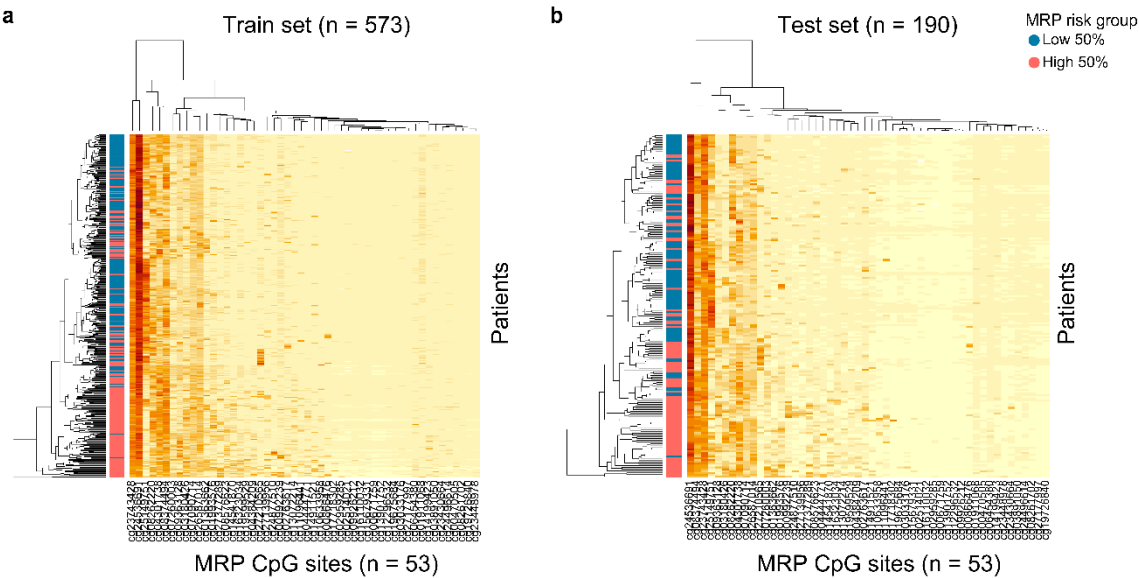
Supplementary Figure 3

a) Out-of-bag estimations of OS for each patient in the training set. **356** Each line represents the OS probability for each patient at different time points. **b)** CRPS plots **357** for the estimation of OS in the training set for the entire cohort (orange line) and stratified **358** according to each of the mortality risk quartiles derived by the model (black lines).



Supplementary Figure 4

Heatmap plots representing the Beta values of each CpG included **360** in the mortality risk predictor (MRP). a-b) Representation of the DNA methylation values of **361** the 53 CpG dinucleotides included in the MRP in the training (a) and test (b) sets. Patients in **362** the lower and higher 50% of risk groups are labeled in blue and coral in the lateral bar.



Supplementary Figure 5

a) Kaplan-Meier estimate for overall survival (OS) with 95% confidence interval (CI) for the external cohort set by *Krali et al.* **b)** Kaplan-Meier estimate for relapse-free survival (RFS) with 95% confidence interval (CI) for the external cohort set by *Krali et al.*

