

Table S2. Optimal hyperparameters of DeepSurv and N-MTLR models.

Parameter	DeepSurv	N-MTLR model
Neural Network structure (Layer: activation; nodes)	1: Softsign; 27 2: CosReLU; 45	1: Atan; 84 2: LogSigmoid; 20
Optimizer	rmsprop	sgd
Batch Normalization	False	False
Learning Rate	0.00018	0.00062
Number of Epochs	2106	88
Dropout	0.4	0.2
L2 Regularization	0.0082	0.0064
L2 Smoothing Regularization		0.0023
Bins		52