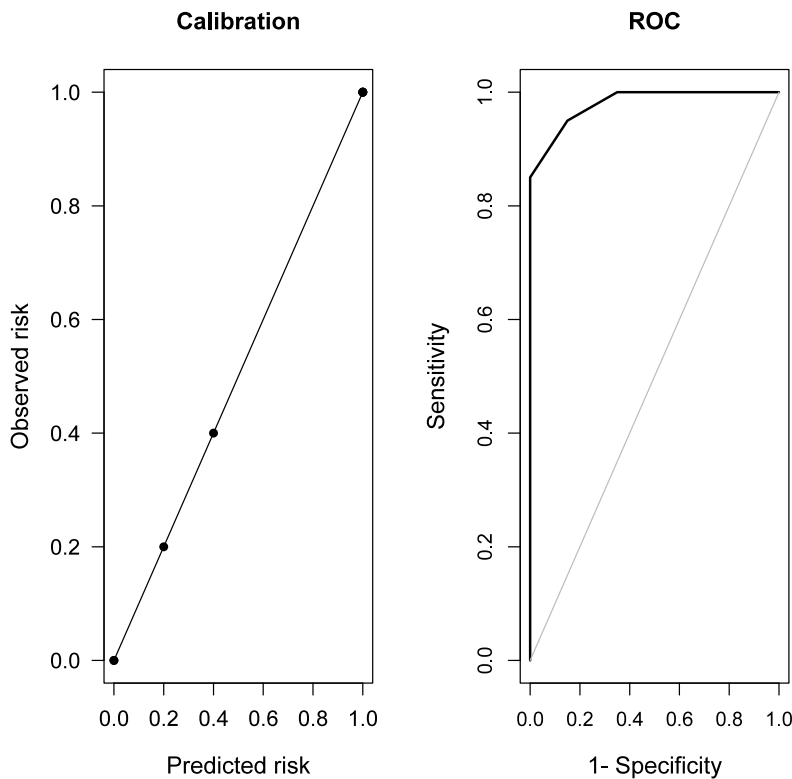


Fig. 1. Calibration & ROC plots of the predictive model for malignant vs. TB effusions

A. Based on dichotomized protein expressions



B. Based on continuous protein expressions

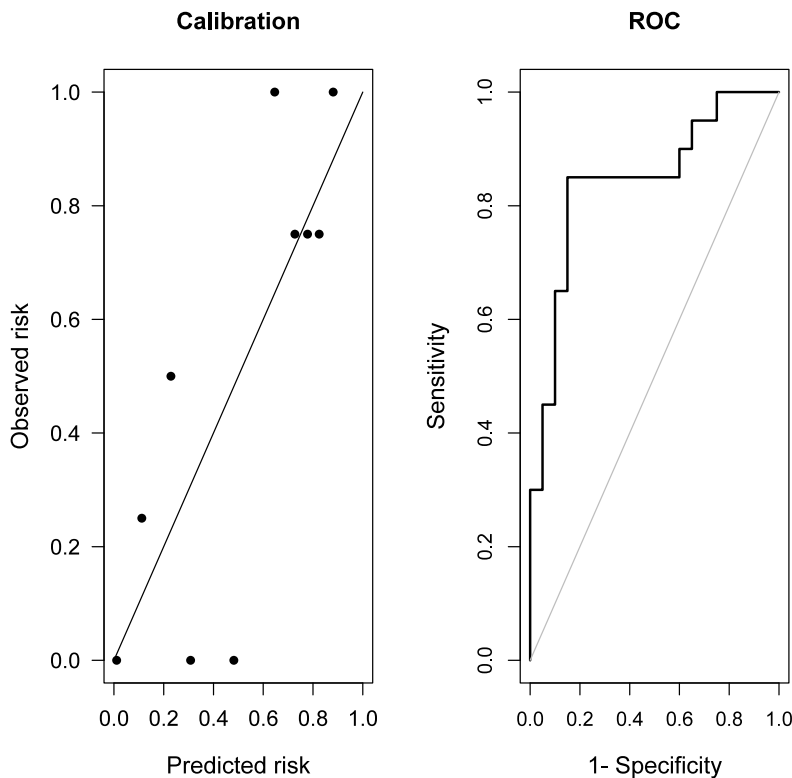
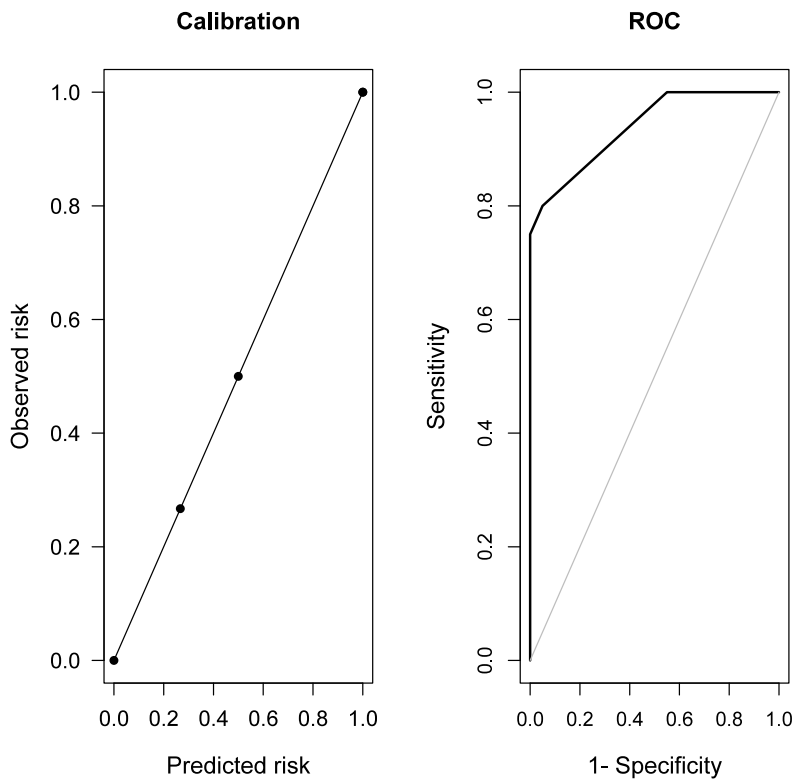


Fig. 2. Calibration & ROC plots of the predictive model for lung adenocarcinoma vs. mesothelioma

A. Based on dichotomized protein expressions



B. Based on continuous protein expressions

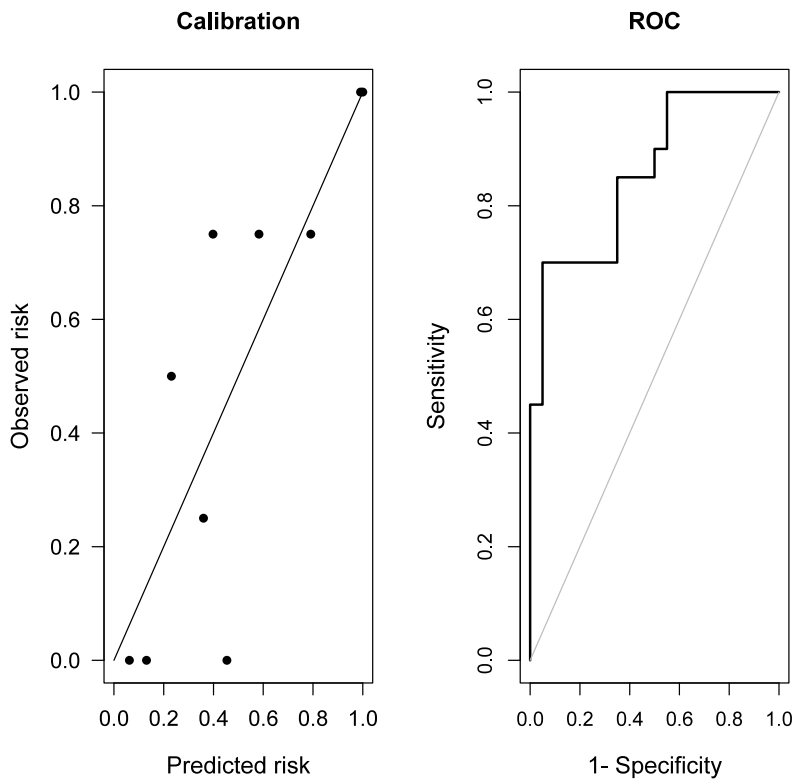
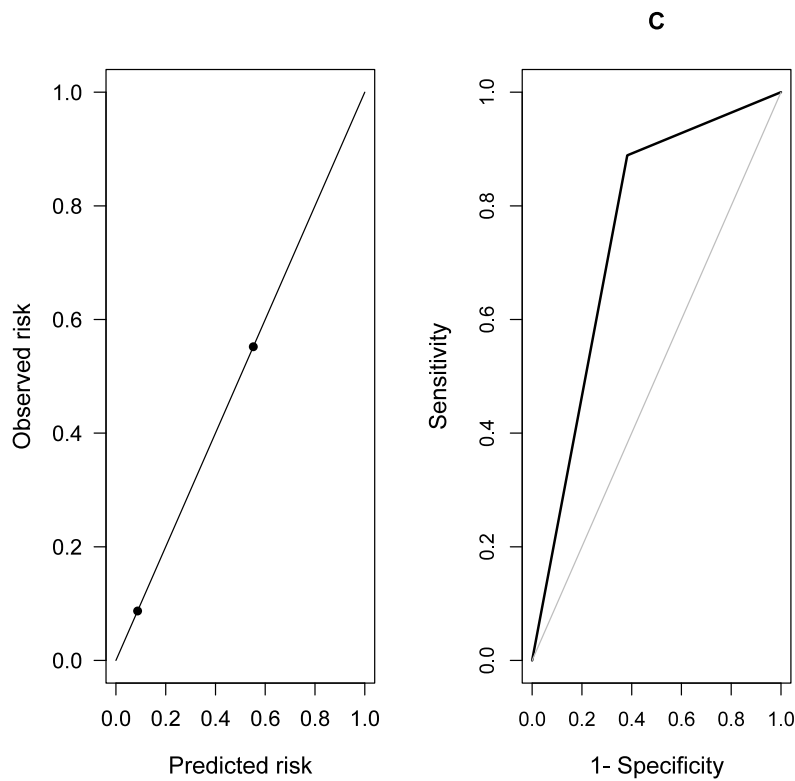


Fig. 3. Calibration & ROC plots of the predictive model for lymphoma vs. TB

A. Based on dichotomized protein expressions



B. Based on continuous protein expressions

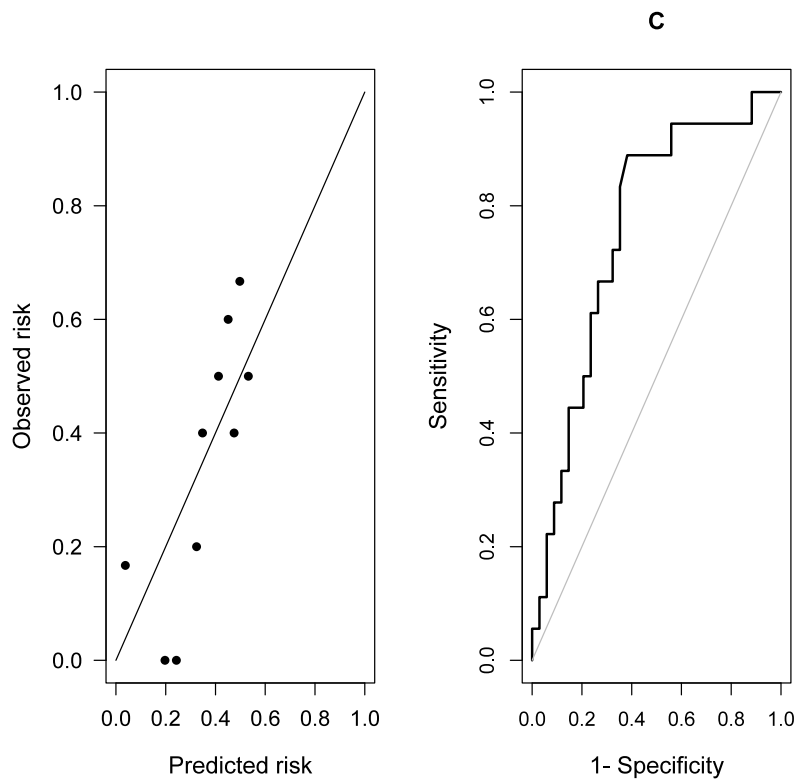


Table. Additional contribution of demographical variables (sex and age) to the proposed scoring systems

A. Malignant vs. TB effusions						
Statistical significance of sex contribution						
Analysis of Deviance (Likelihood ratio test)						
	Resid.	Df	Resid. Dev	Df	Deviance	Pr(>Chi)
Score≥6	38		2.3206e-10			
Score≥6 and Sex	37		2.3206e-10	1	0	1
Statistical significance of age contribution						
Analysis of Deviance (Likelihood ratio test)						
	Resid.	Df	Resid. Dev	Df	Deviance	Pr(>Chi)
Score≥6	38		2.3206e-10			
Score≥6 and Age	37		2.3206e-10	1	0	1
B. Lung adenocarcinoma vs. mesothelioma						
Statistical significance of sex contribution						
Analysis of Deviance (Likelihood ratio test)						
	Resid.	Df	Resid. Dev	Df	Deviance	Pr(>Chi)
Score≥4	38		30.903			
Score≥4 and Sex	37		30.527	1	0.37648	0.5395
Statistical significance of age contribution						
Analysis of Deviance (Likelihood ratio test)						
	Resid.	Df	Resid. Dev	Df	Deviance	Pr(>Chi)
Score≥4	38		30.903			
Score≥4 and Age	37		29.683	1	1.2204	0.2693
C. Lymphoma vs. TB						
Statistical significance of sex contribution						
Analysis of Deviance (Likelihood ratio test)						
	Resid.	Df	Resid. Dev	Df	Deviance	Pr(>Chi)
Score=1	50		53.482			
Score=1 and Sex	49		51.580	1	1.902	0.1679
Statistical significance of age contribution						
Analysis of Deviance (Likelihood ratio test)						
	Resid.	Df	Resid. Dev	Df	Deviance	Pr(>Chi)
Score=1	50		53.482			
Score=1 and Age	49		26.737	1	26.745	0.00000023
Score=1 and Age≥50	49		22.173	1	31.309	0.00000002