

This supplementary document contains a table of all included independent variables along with the % variance of the model predictions explained by their main effect.

Additionally it contains main effects plots for all included predictors.

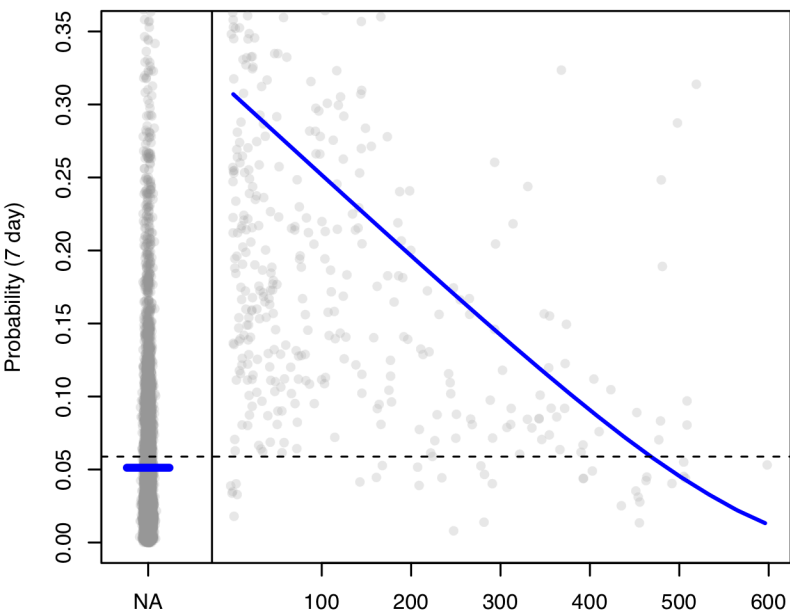
Variable	Group	Type	pct.variance
days_since_pc	Utilization	numeric	21.48
UNIT.TRANSFER	Other	categorical	20.9
Troponin	Lab	numeric	11.48
Bilirubin	Lab	numeric	11.36
Albumin	Lab	numeric	11.08
AnionGap	Lab	numeric	9.64
NeutrophilCount	Lab	numeric	8.81
AST	Lab	numeric	8.61
Lactate	Lab	numeric	6.94
INR	Lab	numeric	6.94
Creatine	Lab	numeric	6.67
ALT	Lab	numeric	6.39
Phosphate	Lab	numeric	6.36
Hct	Lab	numeric	5
Hb	Lab	numeric	4.71
PartPressureArterialO2	Lab	numeric	4.63
Sodium	Lab	numeric	4.41
age	Demographics	numeric	4.4
Ammonia	Lab	numeric	4.32
Metastatic_Cancer_and_Acute_Leukemia	Comorbidity	binary	4.22
adt.hospitalizations_12mnth	Utilization	numeric	4.11
adt.hospitalizations_6mnth	Utilization	numeric	3.78
ICUTRANSFER	Other	binary	3.73
Potassium	Lab	numeric	3.46
Calcium	Lab	numeric	3.2
Platelets	Lab	numeric	3.18
BicarbonateArterialBloodGas	Lab	numeric	2.99
BaseDeficit	Lab	numeric	2.97
pHArterialBloodGas	Lab	numeric	2.63
PartPressureArterialCO2	Lab	numeric	2.53
adt.icu_12mnth	Utilization	numeric	2.31
Lung_and_Other_Severe_Cancers	Comorbidity	binary	1.98

adt.icu_6mnth	Utilization	numeric	1.69
APTT	Lab	numeric	1.68
cameFrom	Demographics	categorical	1.47
Lipase	Lab	numeric	1.32
community	Demographics	binary	1.09
Pressure_Pre_Ulcer_Skin_Changes_or_Un	Comorbidity	binary	0.9
Septicemia_Sepsis_Systemic_Inflammato	Comorbidity	binary	0.77
Congestive_Heart_Failure	Comorbidity	binary	0.76
Aspiration_and_Specified_Bacterial_Pn	Comorbidity	binary	0.66
Specified_Heart_Arrhythmias	Comorbidity	binary	0.63
Disorders_of_Immunity	Comorbidity	binary	0.59
Acute_Renal_Failure	Comorbidity	binary	0.56
Cardio_Respiratory_Failure_and_Shock	Comorbidity	binary	0.54
Dementia_Without_Complication	Comorbidity	binary	0.53
Chronic_Kidney_Disease_Severe_Stage_4	Comorbidity	binary	0.51
Pressure_Ulcer_of_Skin_with_Full_Thic	Comorbidity	binary	0.47
Chronic_Ulcer_of_Skin_Except_Pressure	Comorbidity	binary	0.39
Hip_Fracture_Dislocation	Comorbidity	binary	0.35
Chronic_Obstructive_Pulmonary_Disease	Comorbidity	binary	0.33
Acute_Myocardial_Infarction	Comorbidity	binary	0.33
Amylase	Lab	binary	0.3
Diabetes_with_Chronic_Complications	Comorbidity	binary	0.29
Chronic_Kidney_Disease_Stage_5	Comorbidity	binary	0.26
End_Stage_Liver_Disease	Comorbidity	binary	0.25
Vascular_Disease_with_Complications	Comorbidity	binary	0.24
Chronic_Kidney_Disease_Moderate_Stage	Comorbidity	binary	0.22
Lymphoma_and_Other_Cancers	Comorbidity	binary	0.21
Opportunistic_Infections	Comorbidity	binary	0.21
Atherosclerosis_of_the_Extremities_wi	Comorbidity	binary	0.21
Pneumococcal_Pneumonia_Empyema_Lung_A	Comorbidity	binary	0.19
Coagulation_Defects_and_Other_Specifi	Comorbidity	binary	0.18
Chronic_Kidney_Disease_Mild_or_Unspec	Comorbidity	binary	0.18
Vertebral_Fractures_without_Spinal_Co	Comorbidity	binary	0.18
Severe_Hematological_Disorders	Comorbidity	binary	0.17
Protein_Calorie_Malnutrition	Comorbidity	binary	0.17
Dialysis_Status	Comorbidity	binary	0.17
Cirrhosis_of_Liver	Comorbidity	binary	0.16
Pressure_Ulcer_of_Skin_with_Partial_T	Comorbidity	binary	0.15

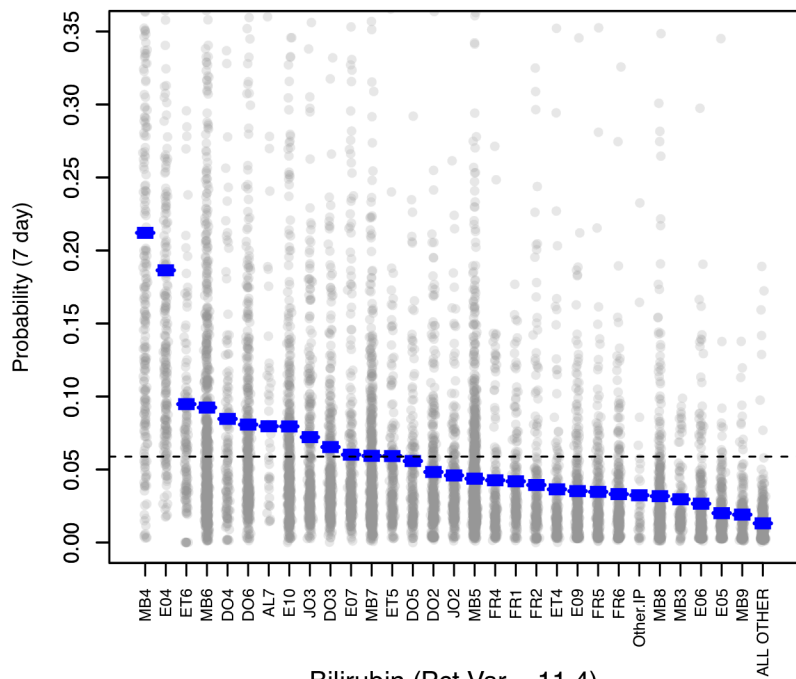
Intestinal_Obstruction_Perforation	Comorbidity	binary	0.15
Polyneuropathy	Comorbidity	binary	0.15
Nephritis	Comorbidity	binary	0.13
Fibrinogen	Lab	numeric	0.1
Vascular_Disease	Comorbidity	binary	0.1
Amputation_Status_Lower_Limb_Amputati	Comorbidity	binary	0.09
Breast_Prostate_and_Other_Cancers_and	Comorbidity	binary	0.09
Exudative_Macular_Degeneration	Comorbidity	binary	0.08
Pressure_Ulcer_of_Skin_with_Necrosis_	Comorbidity	binary	0.08
Fibrosis_of_Lung_and_Other_Chronic_Lu	Comorbidity	binary	0.07
Seizure_Disorders_and_Convulsions	Comorbidity	binary	0.06
Unstable_Angina_and_Other_Acute_Ische	Comorbidity	binary	0.06
Major_Organ_Transplant_or_Replacement	Comorbidity	binary	0.05
Complications_of_Specified_Implanted_	Comorbidity	binary	0.05
Proliferative_Diabetic_Retinopathy_an	Comorbidity	binary	0.04
Bone_Joint_Muscle_Infections_Necrosis	Comorbidity	binary	0.04
Colorectal_Bladder_and_Other_Cancers	Comorbidity	binary	0.03
Morbid_Obesity	Comorbidity	binary	0.03
Unspecified_Renal_Failure	Comorbidity	binary	0.03
Inflammatory_Bowel_Disease	Comorbidity	binary	0.02
Traumatic_Amputations_and_Complicatio	Comorbidity	binary	0.02
Major_Depressive_Bipolar_and_Paranoia	Comorbidity	binary	0.02
Artificial_Openings_for_Feeding_or_El	Comorbidity	binary	0.02
Other_Significant_Endocrine_and_Metab	Comorbidity	binary	0.02
Schizophrenia	Comorbidity	binary	0.02
Parkinsons_and_Huntingtons_Diseases	Comorbidity	binary	0.01
Chronic_Hepatitis	Comorbidity	binary	0.01
gender	Demographics	binary	0.01
Respiratory_Arrest	Comorbidity	binary	0.01
DAYCOV	Other	numeric	0.01
Rheumatoid_Arthritis_and_Inflammatory	Comorbidity	binary	0.01
Ischemic_or_Unspecified_Stroke	Comorbidity	binary	0.01
Multiple_Sclerosis	Comorbidity	binary	0.01
Chronic_Pancreatitis	Comorbidity	binary	0.01
Respirator_Dependence_Tracheostomy_St	Comorbidity	binary	0.01
Dementia_With_Complications	Comorbidity	binary	0.01
Cerebral_Palsy	Comorbidity	binary	0.01
Hemiplegia_Hemiparesis	Comorbidity	binary	0

Cerebral_Hemorrhage	Comorbidity	binary	0
Diabetes_without_Complication	Comorbidity	binary	0
HIV_AIDS	Comorbidity	binary	0
Coma_Brain_Compression_Anoxic_Damage	Comorbidity	binary	0
Quadriplegia	Comorbidity	binary	0
Muscular_Dystrophy	Comorbidity	binary	0
Paraplegia	Comorbidity	binary	0
Drug_Alcohol_Dependence	Comorbidity	binary	0
Amyotrophic_Lateral_Sclerosis_and_Oth	Comorbidity	binary	0
Monoplegia_Other_Paralytic_Syndromes	Comorbidity	binary	0
Spinal_Cord_Disorders_Injuries	Comorbidity	binary	0
Severe_Skin_Burn_or_Condition	Comorbidity	binary	0
Drug_Alcohol_Psychosis	Comorbidity	binary	0
Cystic_Fibrosis	Comorbidity	binary	0
Angina_Pectoris	Comorbidity	binary	0
Major_Head_Injury	Comorbidity	binary	0
Diabetes_with_Acute_Complications	Comorbidity	binary	0
Severe_Head_Injury	Comorbidity	binary	0

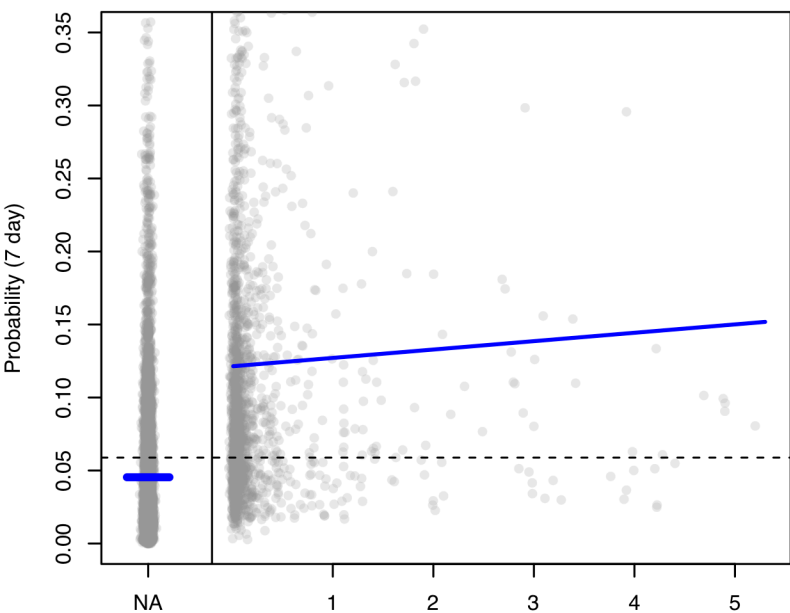
days_since_pc (Pct.Var = 21.5)



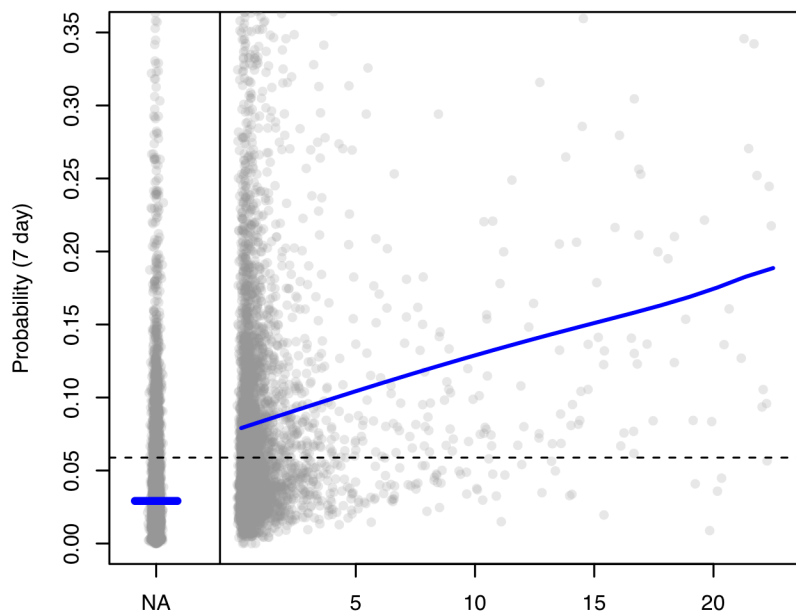
UNIT.TRANSFER (Pct.Var = 20.9)



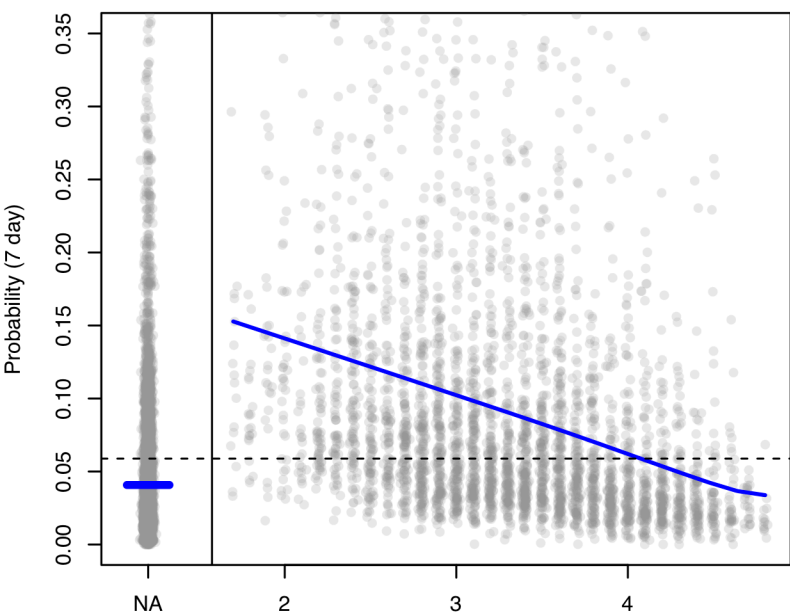
Troponin (Pct.Var = 11.5)



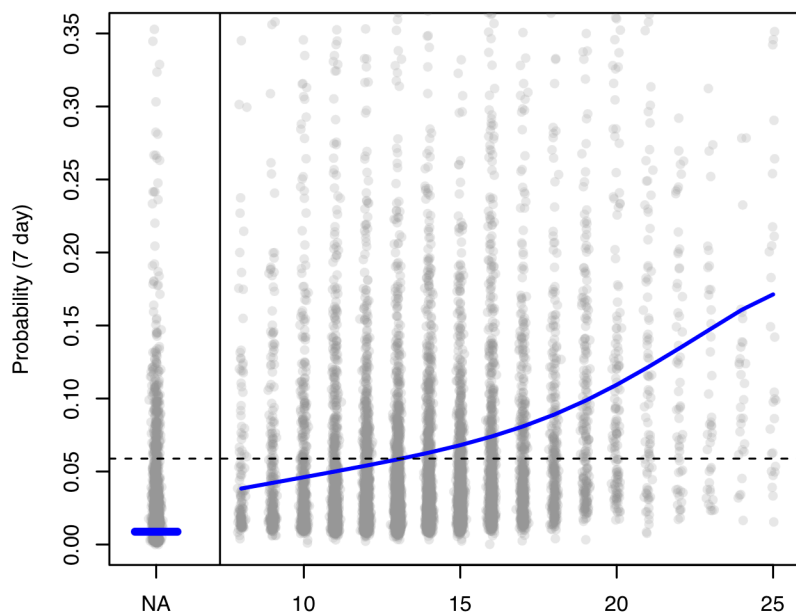
Bilirubin (Pct.Var = 11.4)



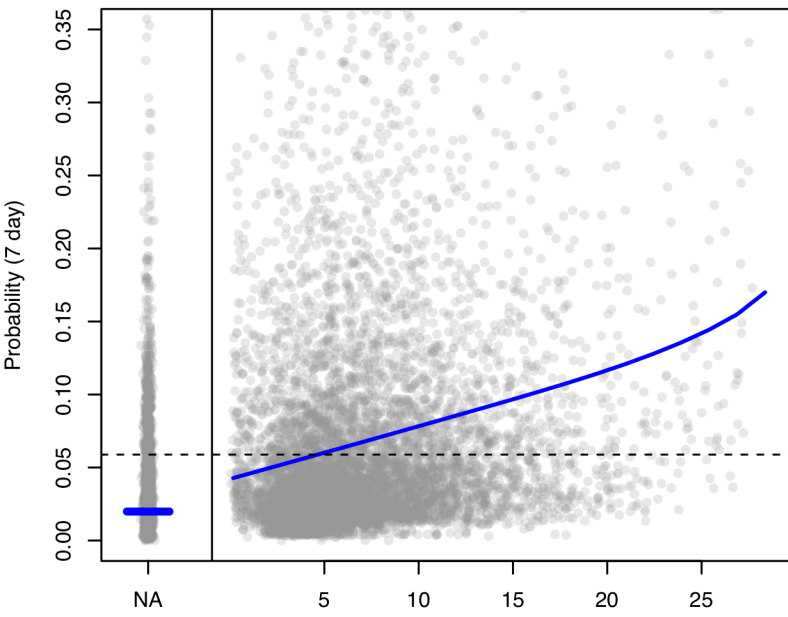
Albumin (Pct.Var = 11.1)



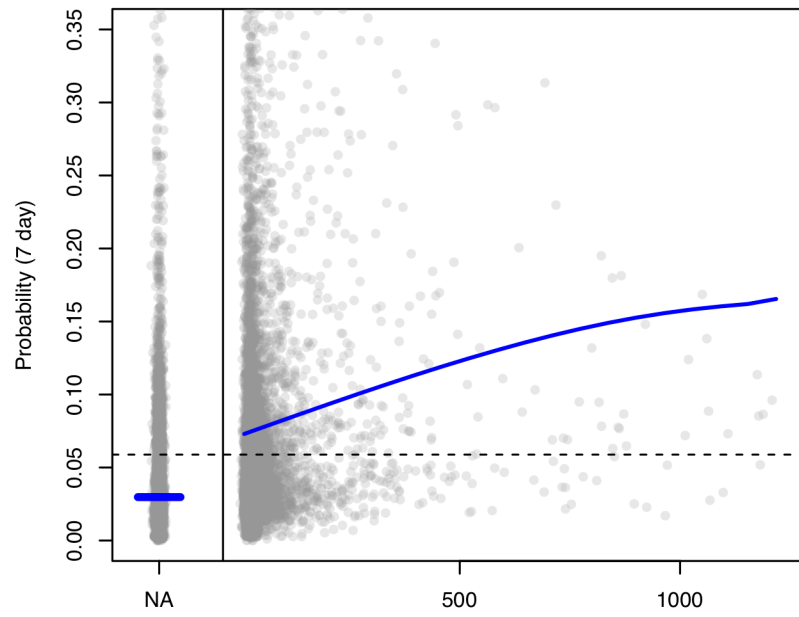
AnionGap (Pct.Var = 9.6)



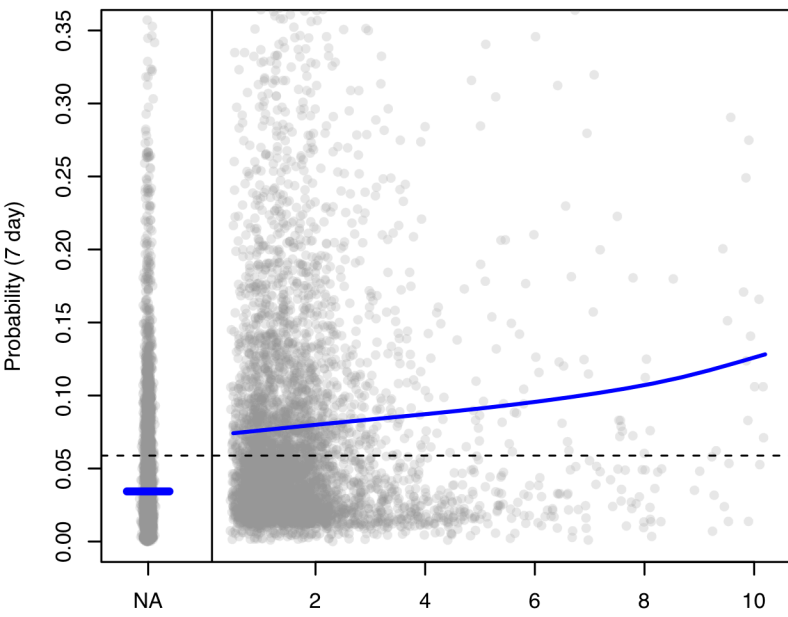
NeutrophilCount (Pct.Var = 8.8)



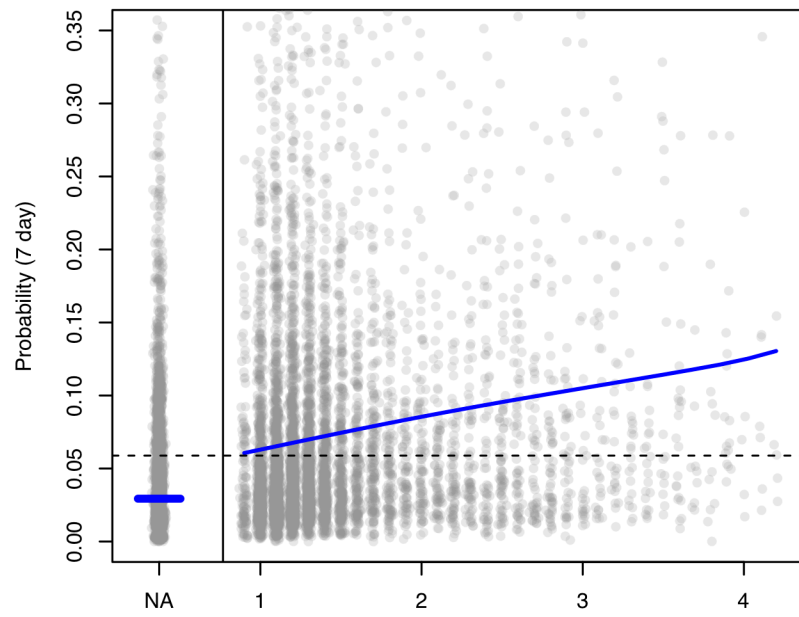
AST (Pct.Var = 8.6)



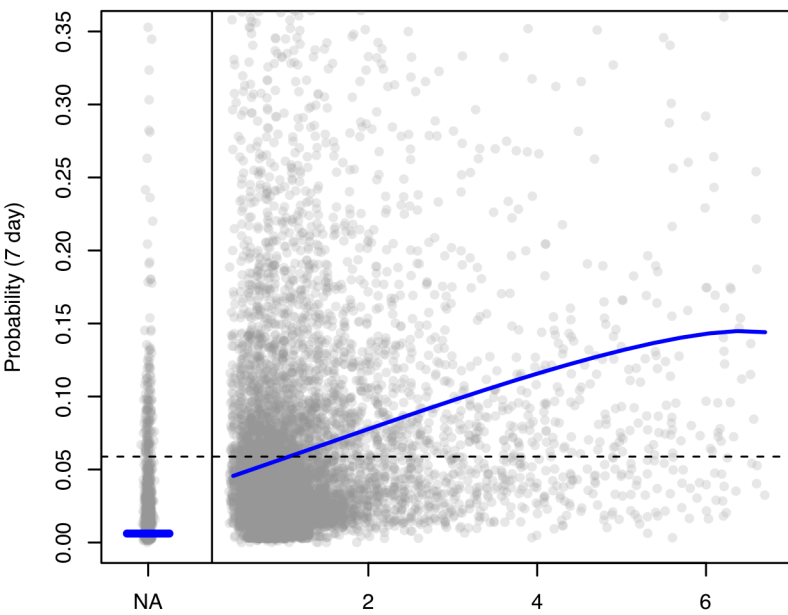
Lactate (Pct.Var = 6.9)



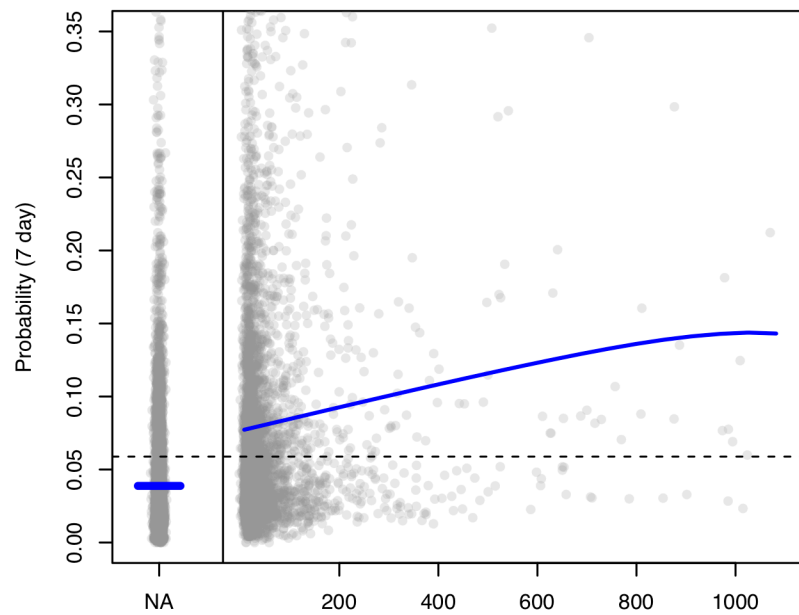
INR (Pct.Var = 6.9)



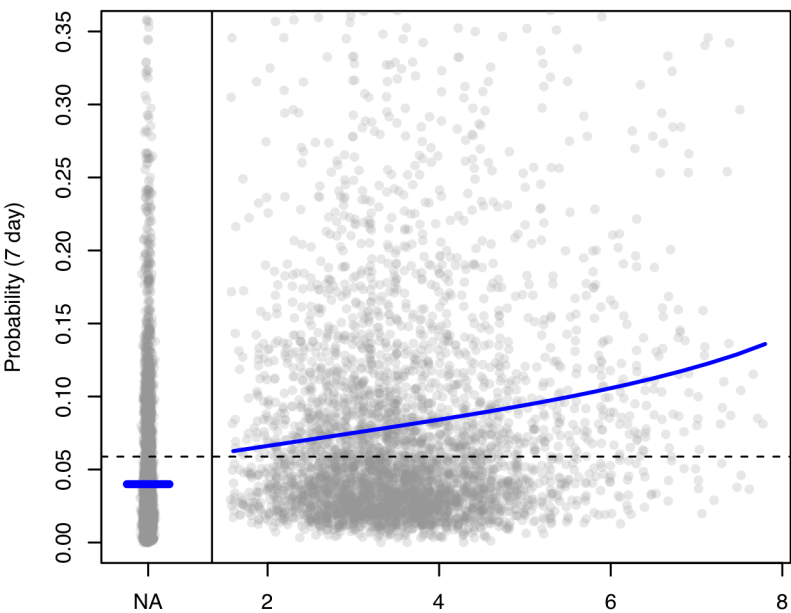
Creatine (Pct.Var = 6.7)



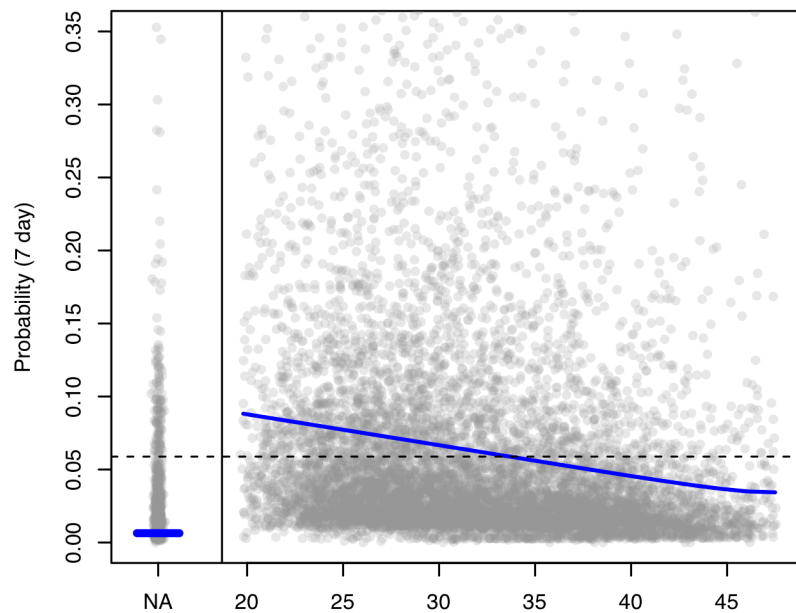
ALT (Pct.Var = 6.4)



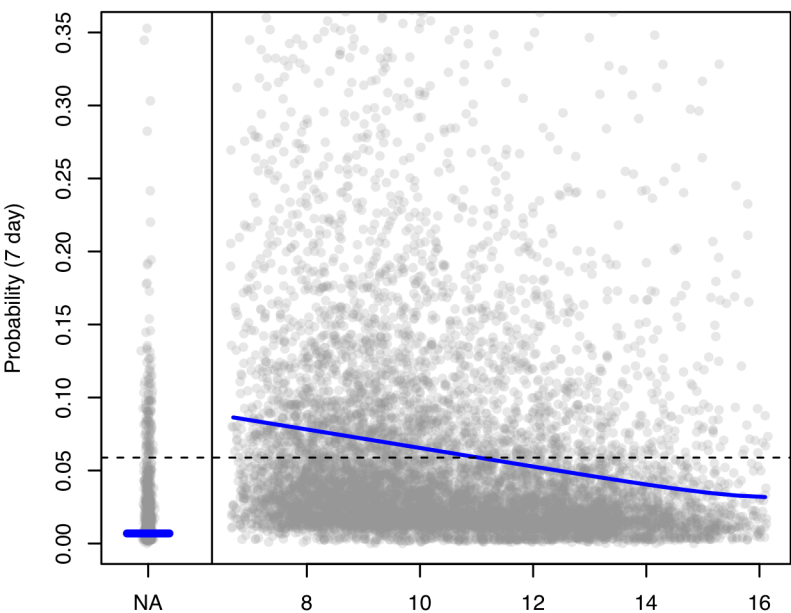
Phosphate (Pct.Var = 6.4)



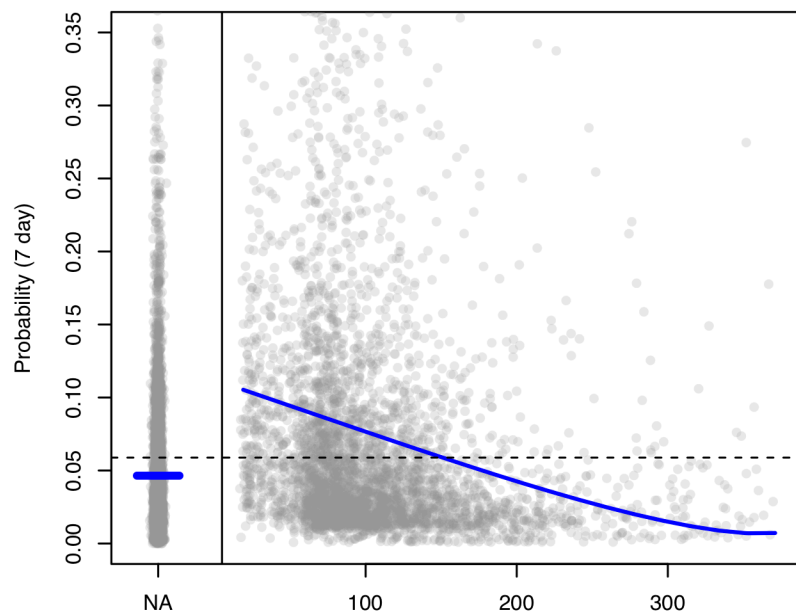
Hct (Pct.Var = 5.0)



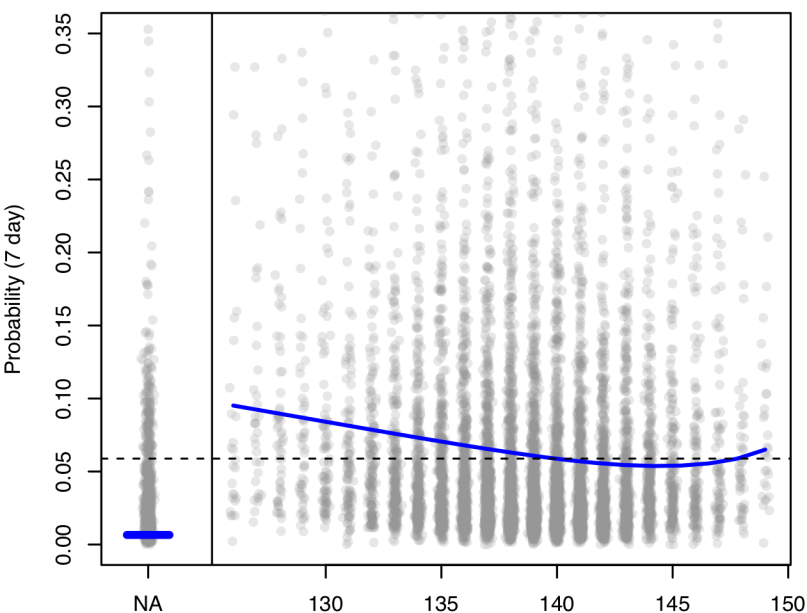
Hb (Pct.Var = 4.7)



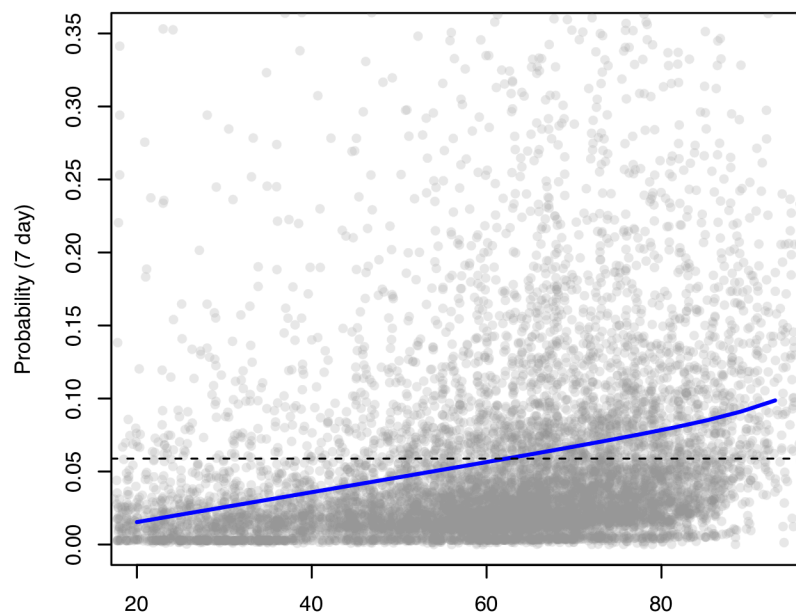
PartPressureArterialO2 (Pct.Var = 4.6)



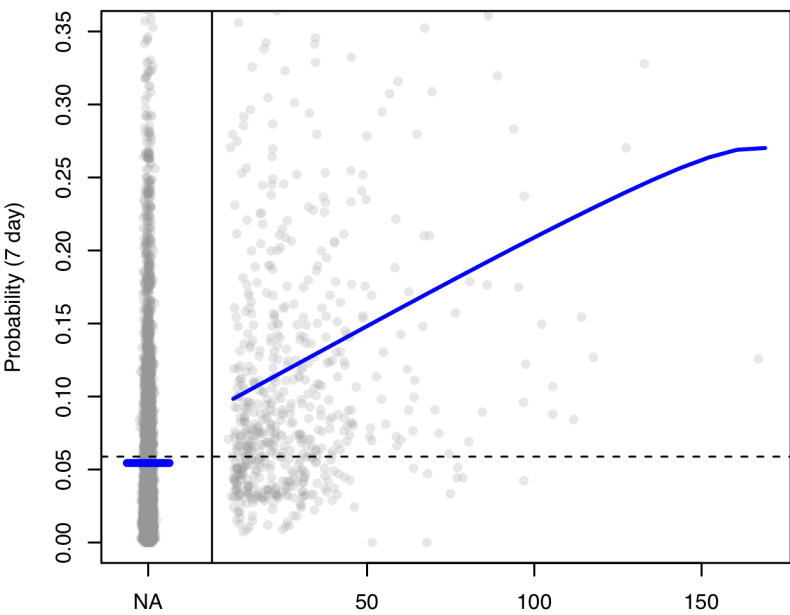
Sodium (Pct.Var = 4.4)



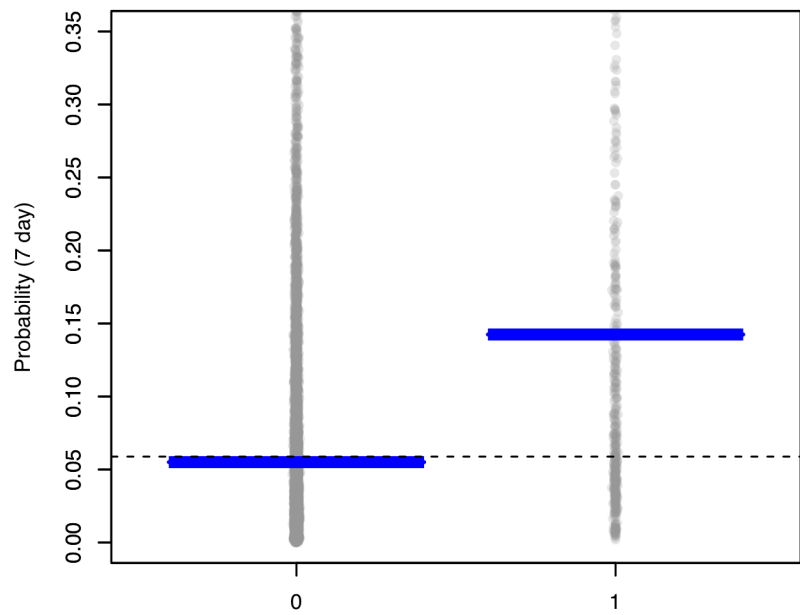
age (Pct.Var = 4.4)



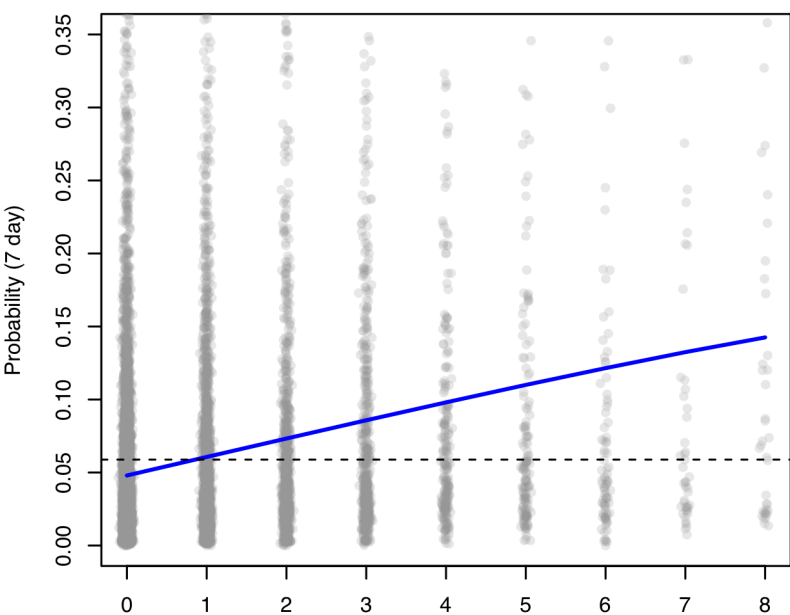
Ammonia (Pct.Var = 4.3)



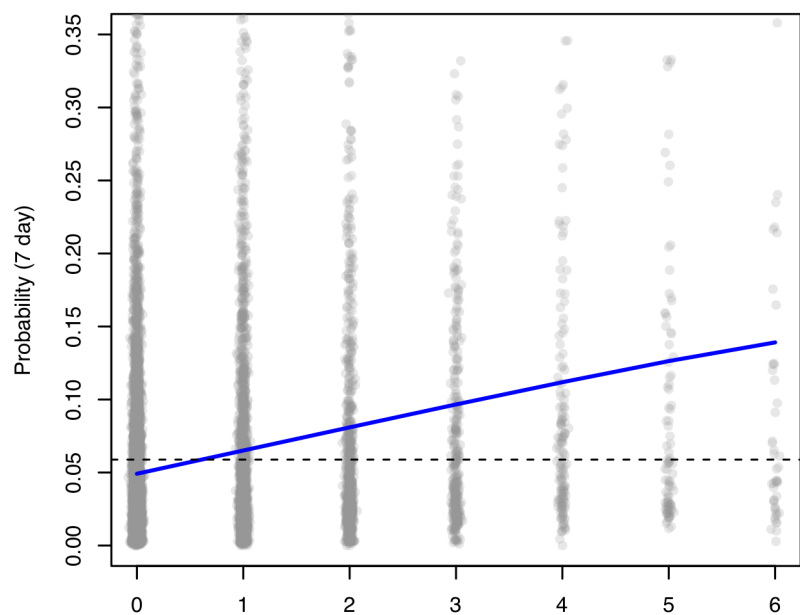
Metastatic_Cancer_and_Acute_Leukemia (Pct.Var = 4.2)



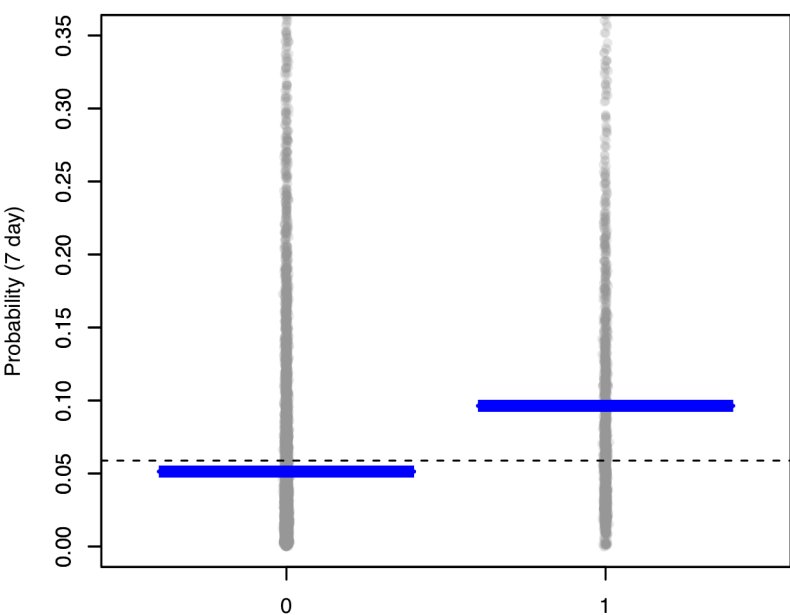
adt.hospitalizations_12mnth (Pct.Var = 4.1)



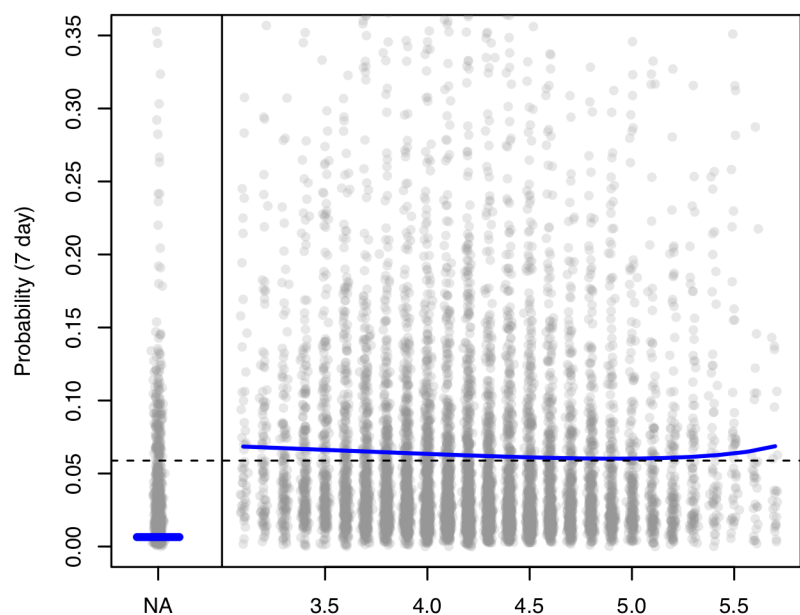
adt.hospitalizations_6mnth (Pct.Var = 3.8)



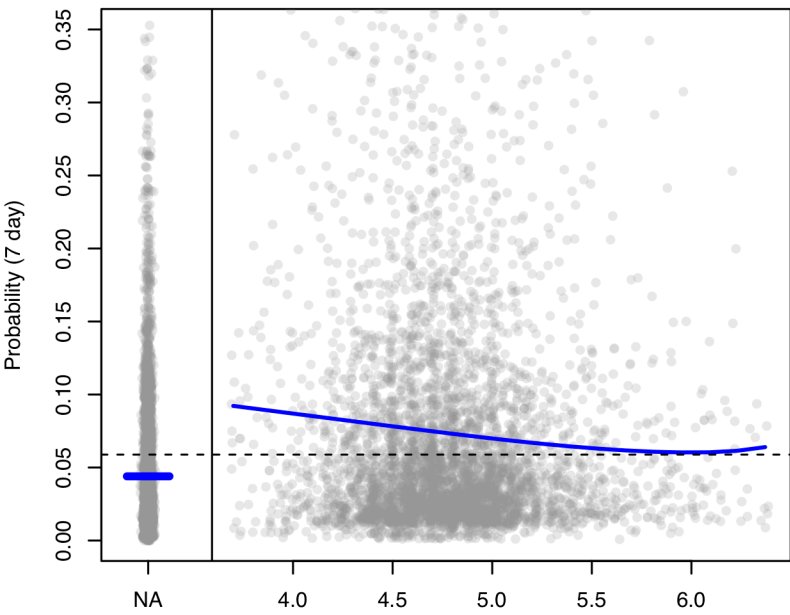
ICUTRANSFER (Pct.Var = 3.7)



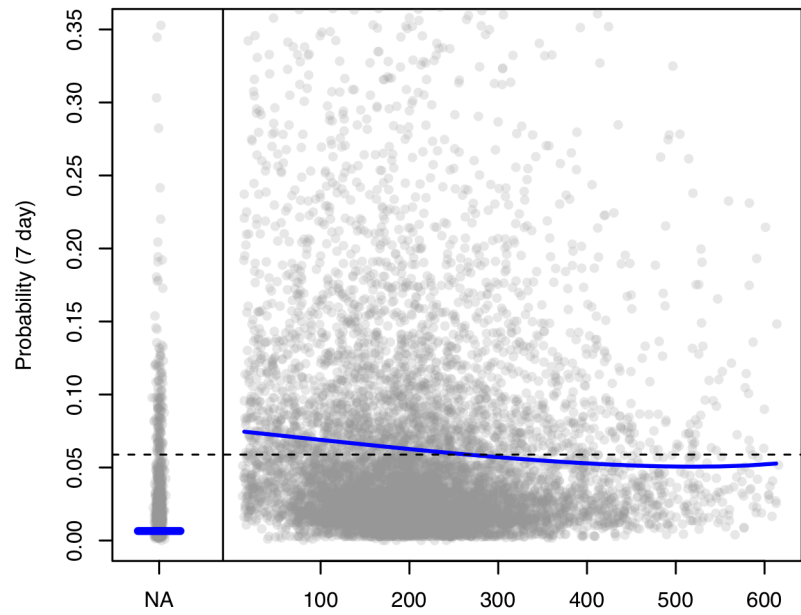
Potassium (Pct.Var = 3.5)



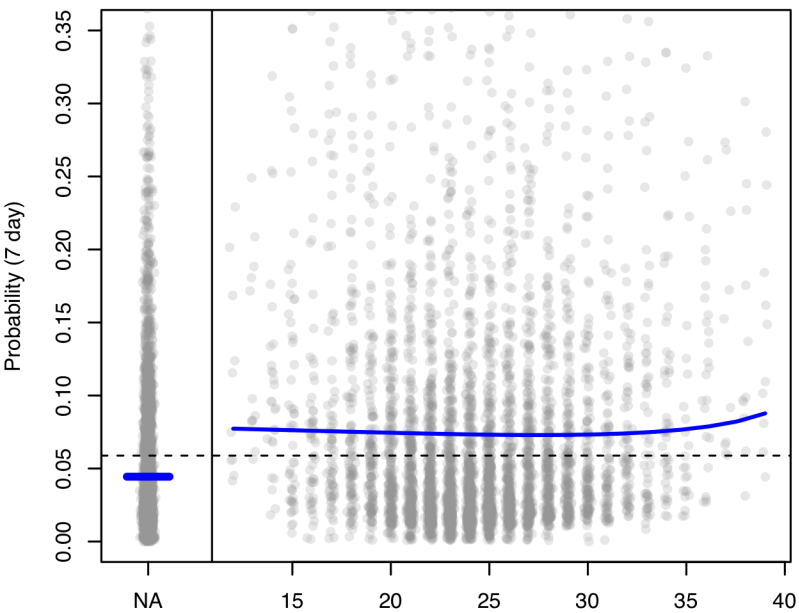
Calcium (Pct.Var = 3.2)



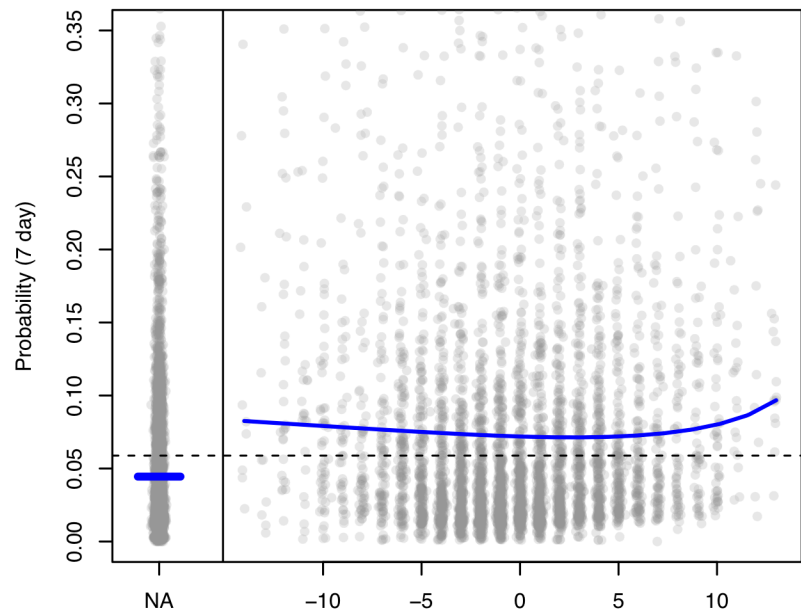
Platelets (Pct.Var = 3.2)



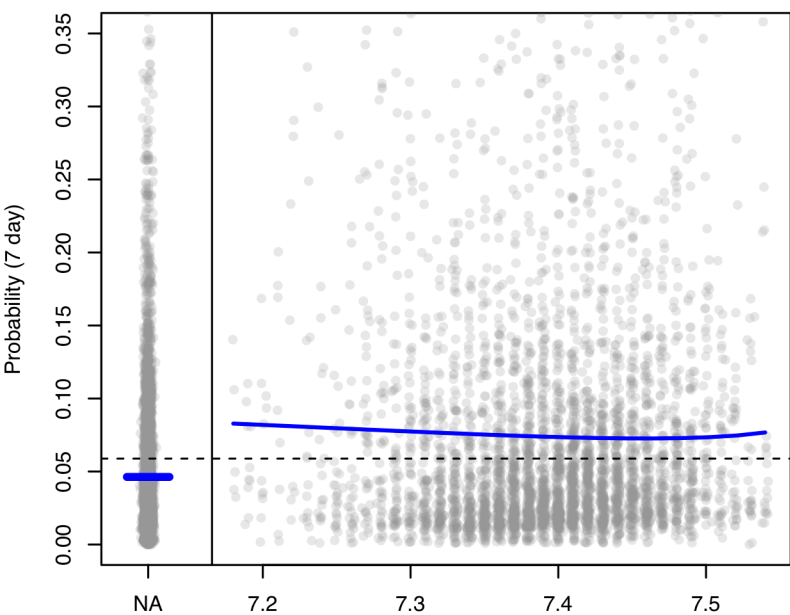
BicarbonateArterialBloodGas (Pct.Var = 3.0)



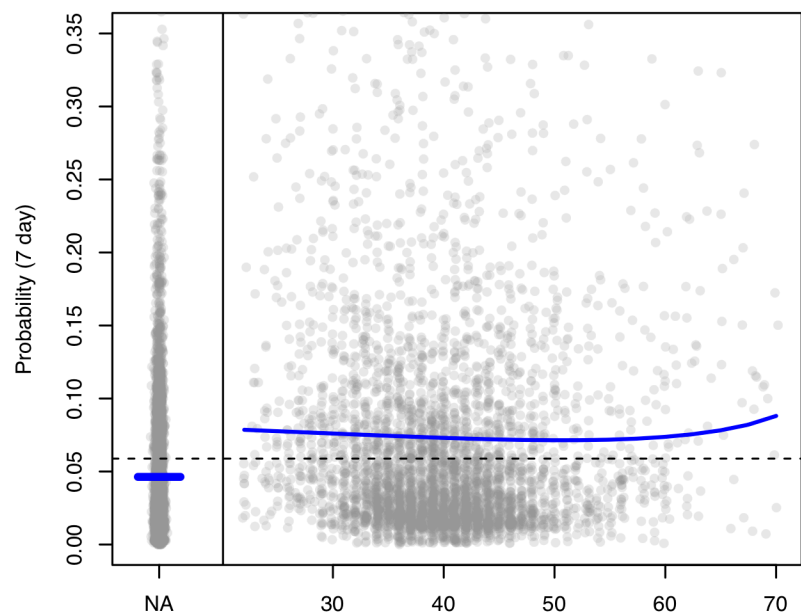
BaseDeficit (Pct.Var = 3.0)



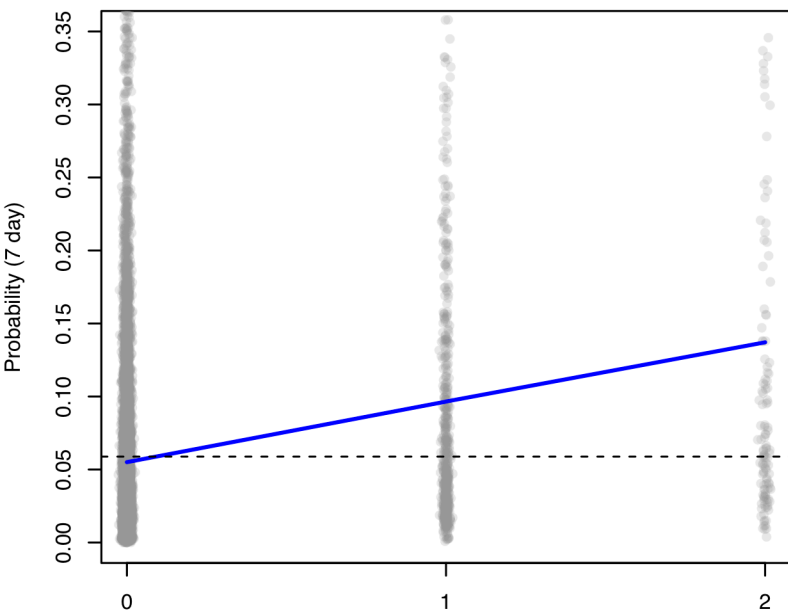
pHArterialBloodGas (Pct.Var = 2.6)



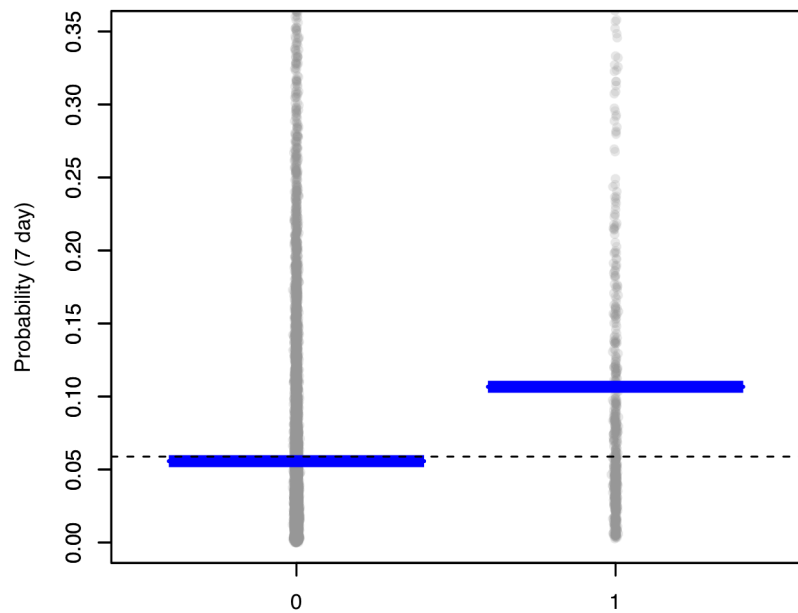
PartPressureArterialCO2 (Pct.Var = 2.5)



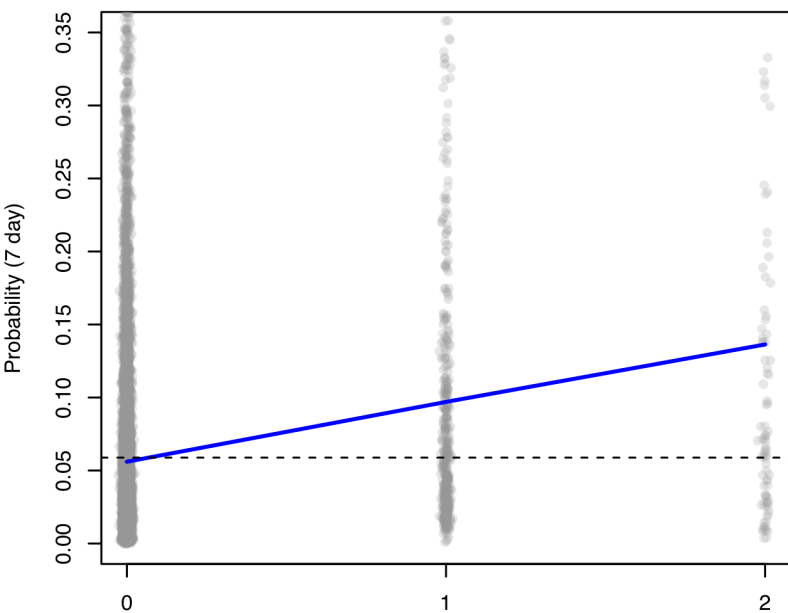
adt.icu_12mnth (Pct.Var = 2.3)



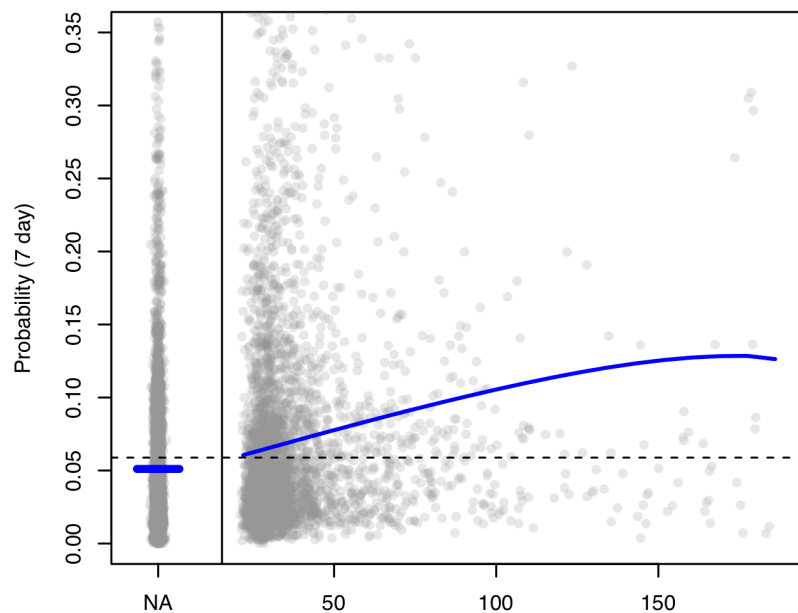
Lung_and_Other_Severe_Cancers (Pct.Var = 2.0)



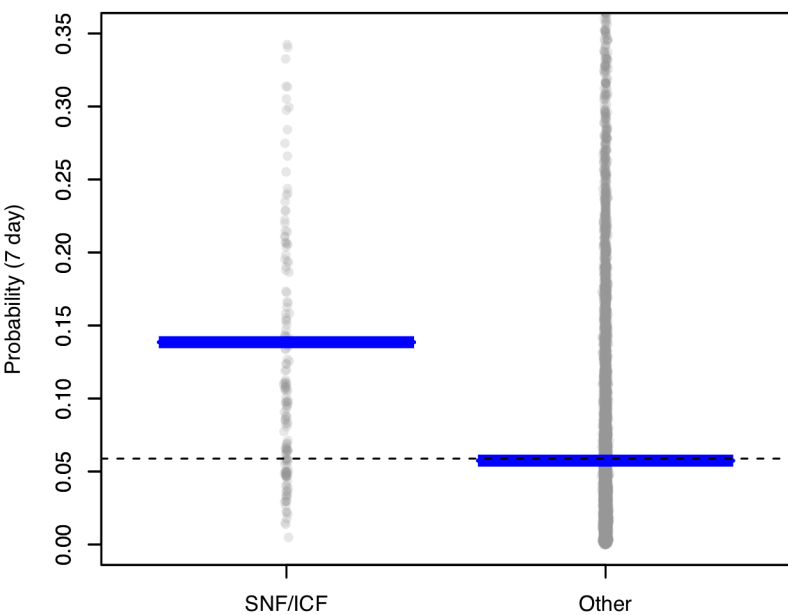
adt.icu_6mnth (Pct.Var = 1.7)



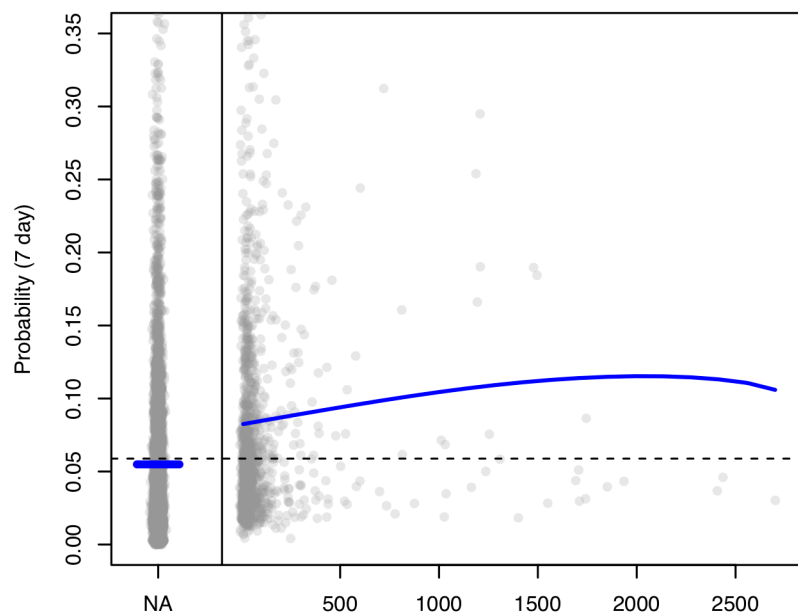
APTT (Pct.Var = 1.7)



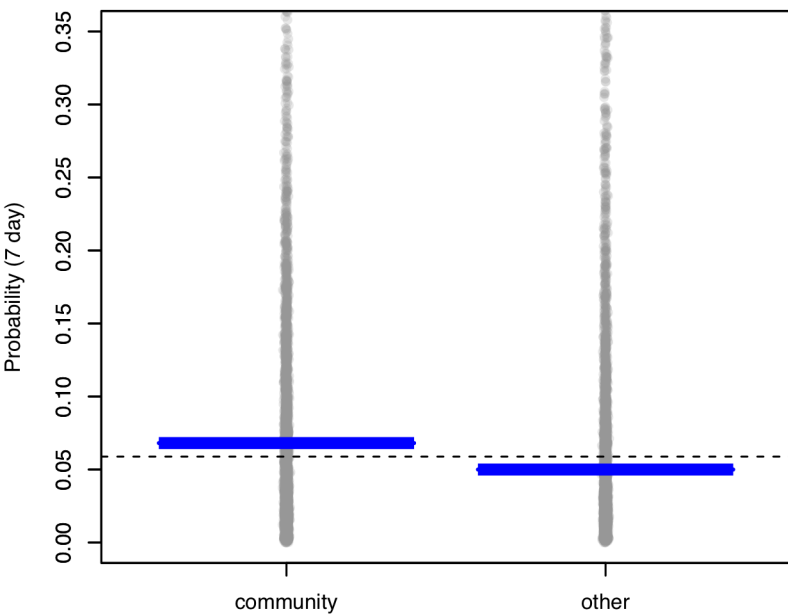
cameFrom (Pct.Var = 1.5)



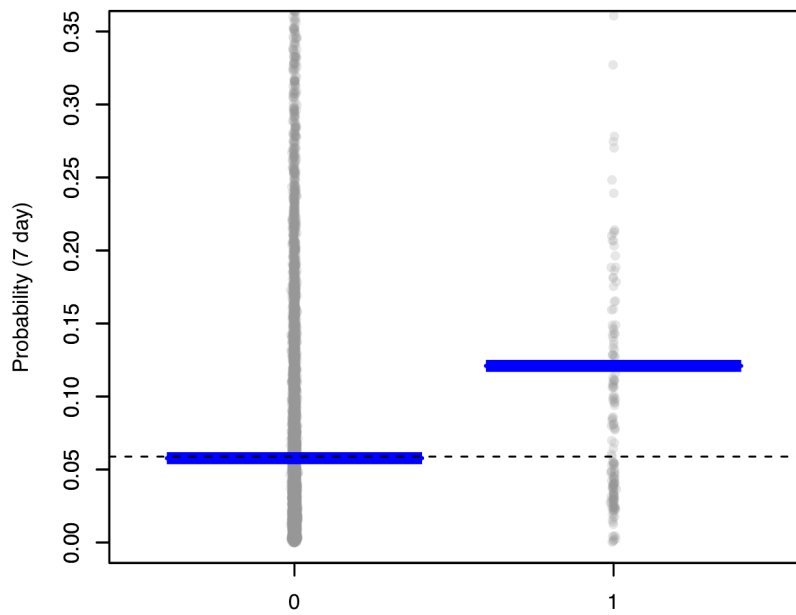
Lipase (Pct.Var = 1.3)



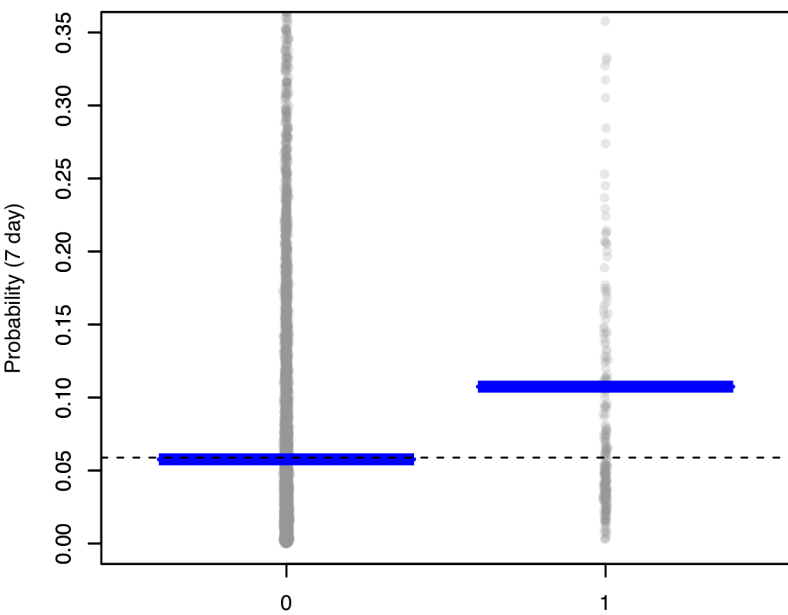
community (Pct.Var = 1.1)



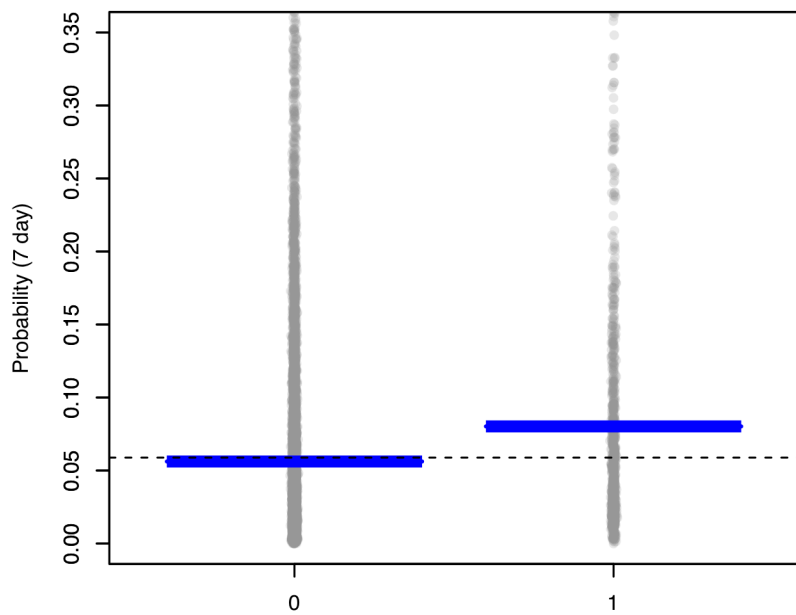
Pressure_Pre_Ulcer_Skin_Changes_or_Unspecified_Stage (Pct.Var



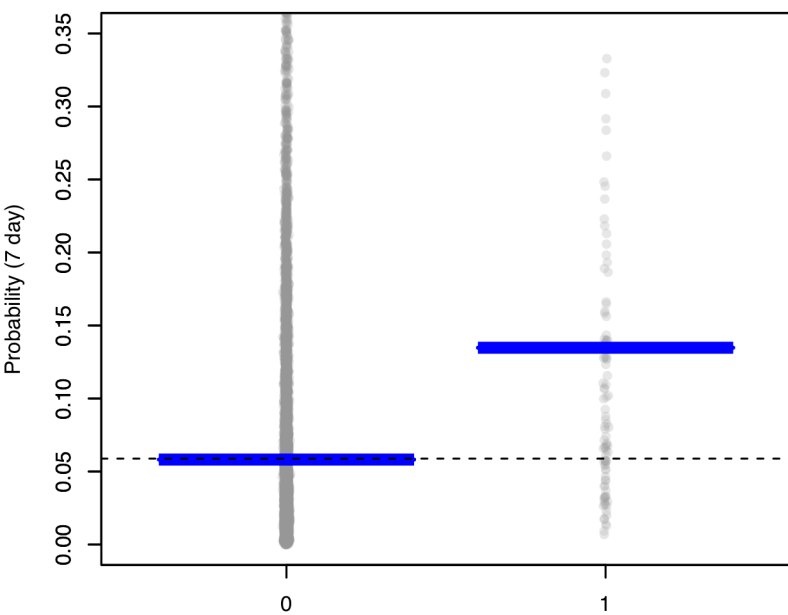
emia_Sepsis_Systemic_Inflammatory_Response_Syndrome_Shock (



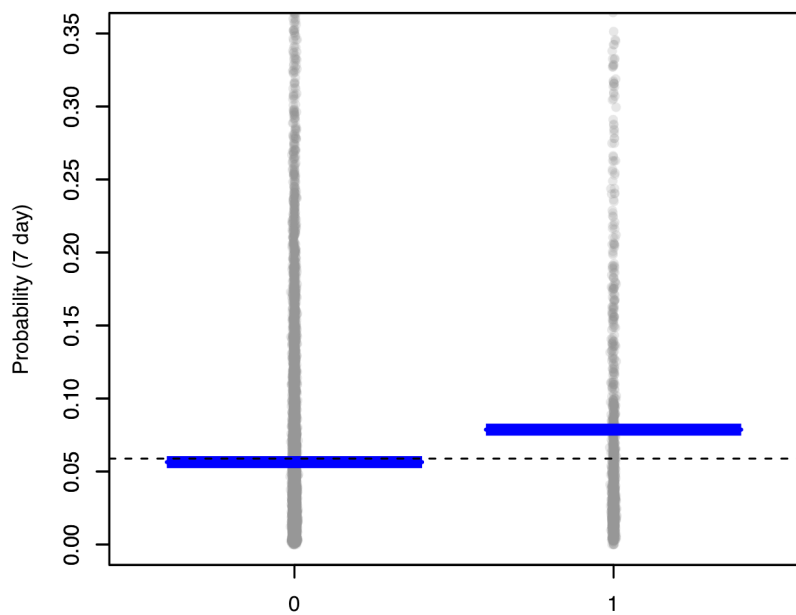
Congestive_Heart_Failure (Pct.Var = 0.8)



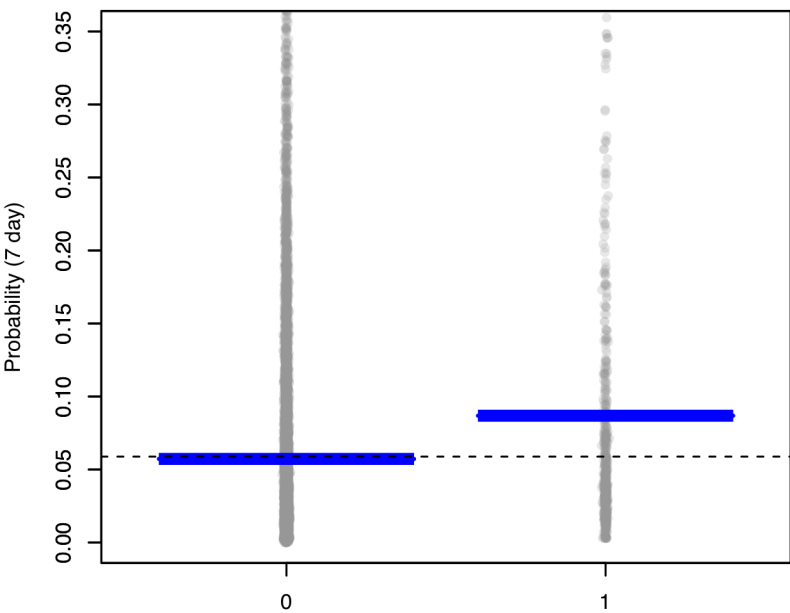
Aspiration_and_Specified_Bacterial_Pneumonias (Pct.Var = 0.7)



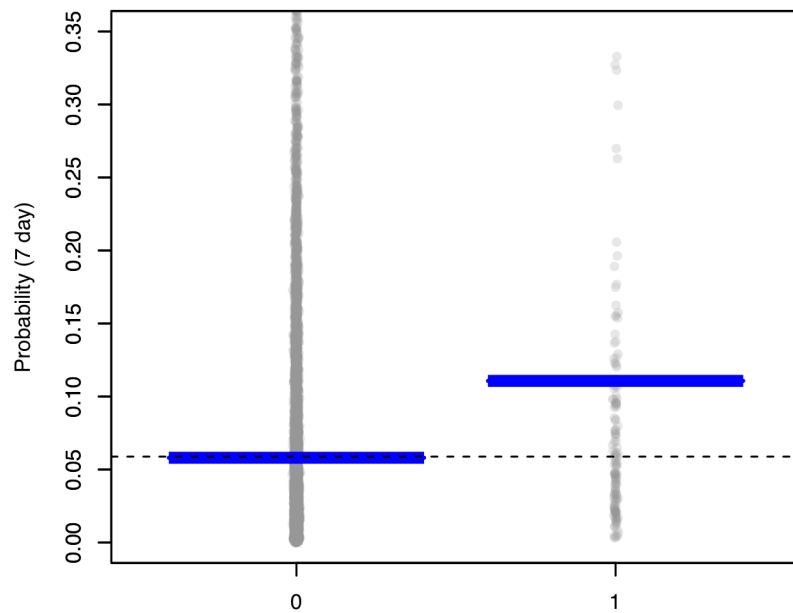
Specified_Heart_Arrhythmias (Pct.Var = 0.6)



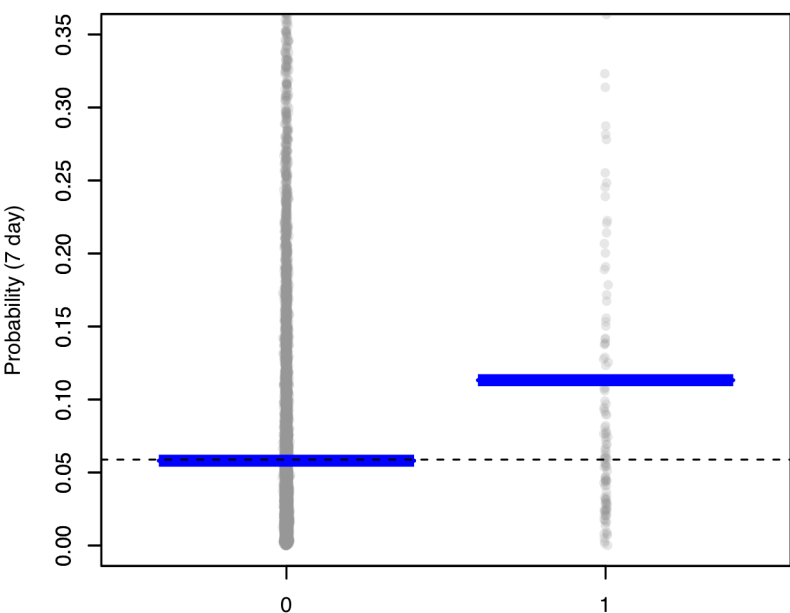
Disorders_of_Immunity (Pct.Var = 0.6)



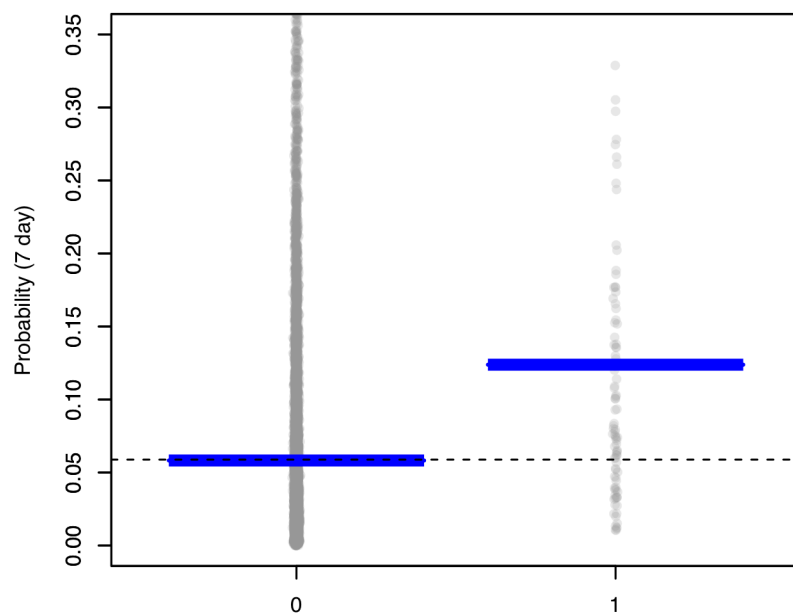
Acute_Renal_Failure (Pct.Var = 0.6)



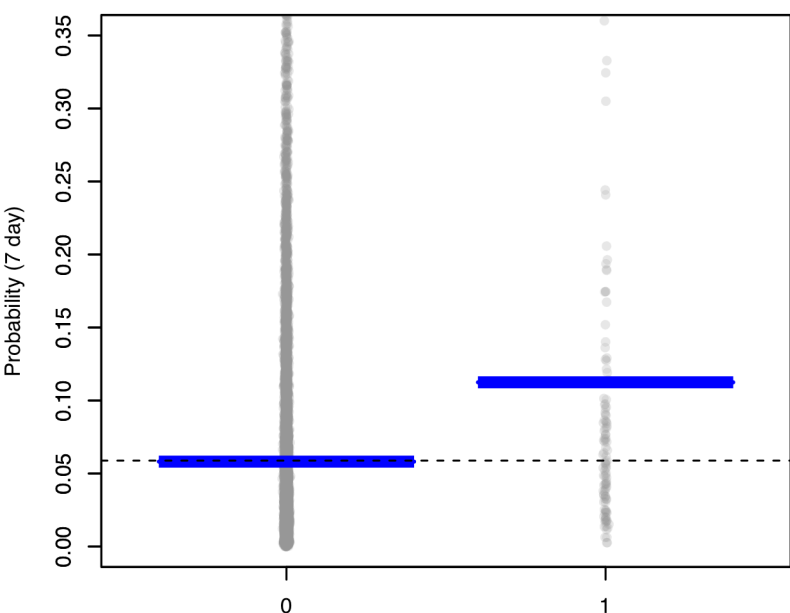
Cardio_Respiratory_Failure_and_Shock (Pct.Var = 0.5)



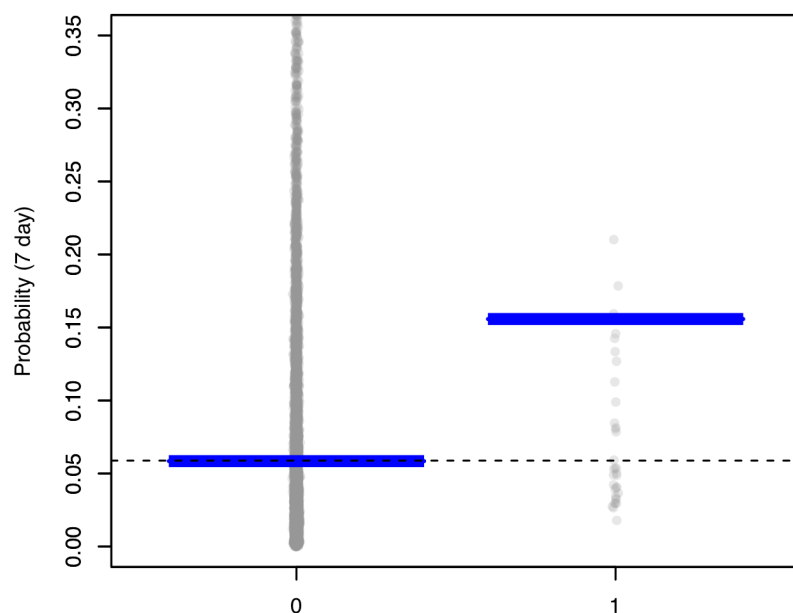
Dementia_Without_Complication (Pct.Var = 0.5)



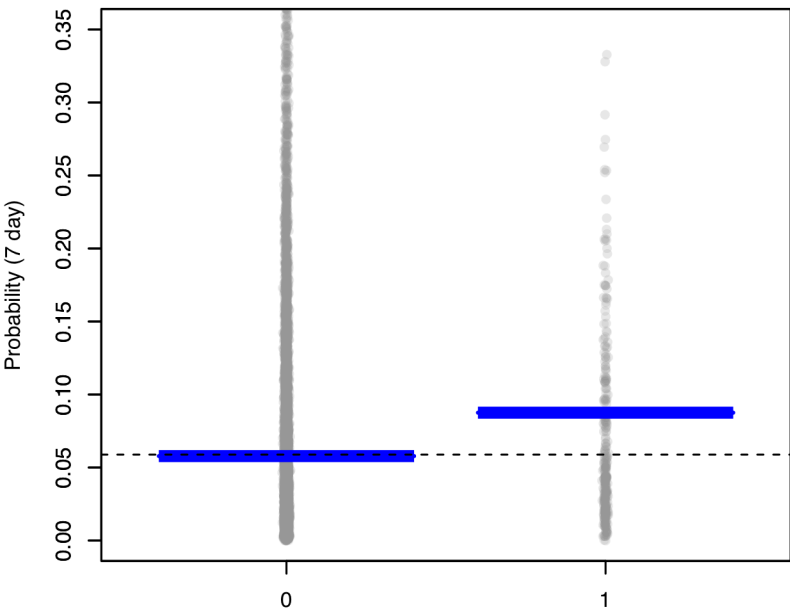
Chronic_Kidney_Disease_Severe_Stage_4 (Pct.Var = 0.5)



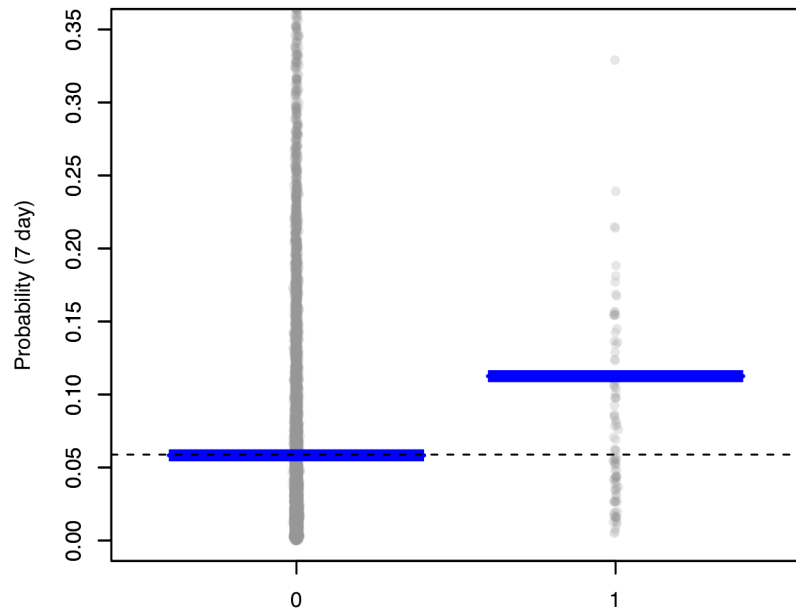
Pressure_Ulcer_of_Skin_with_Full_Thickness_Skin_Loss (Pct.Var = 0.5)



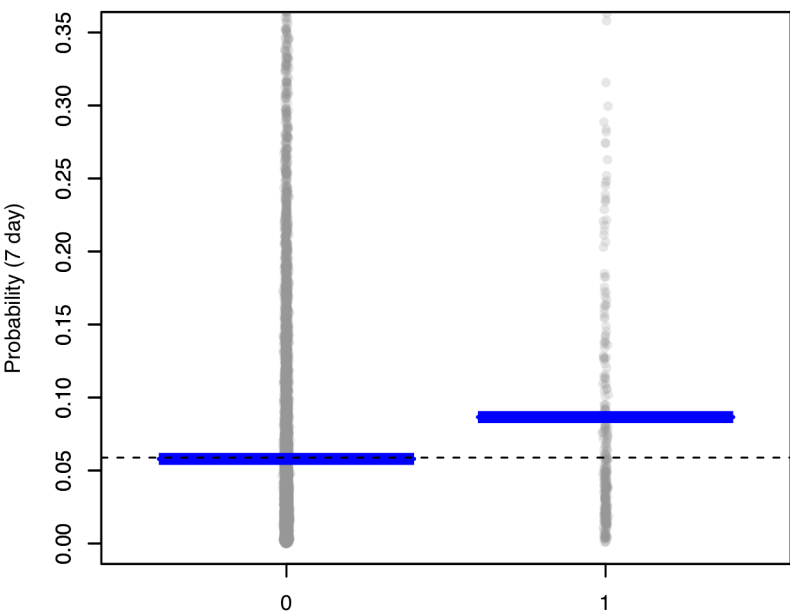
Chronic_Ulcer_of_Skin_Except_Pressure (Pct.Var = 0.4)



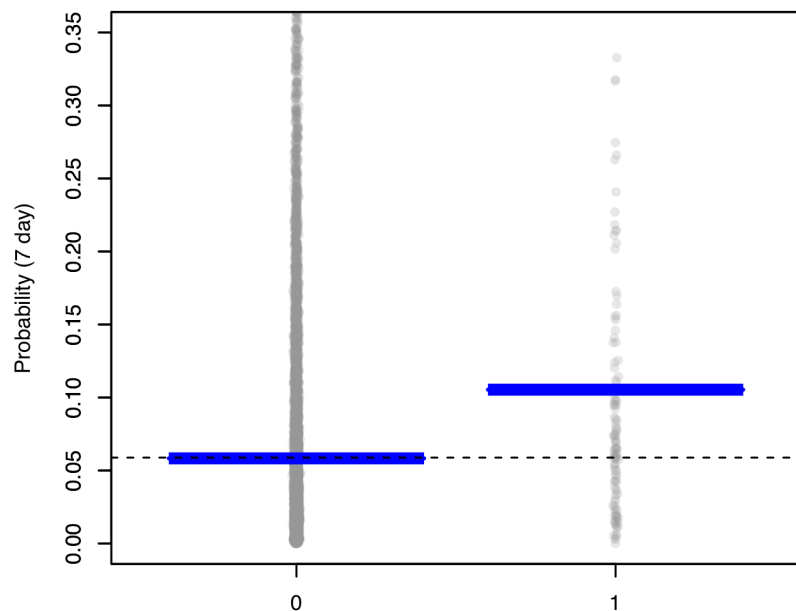
Hip_Fracture_Dislocation (Pct.Var = 0.4)



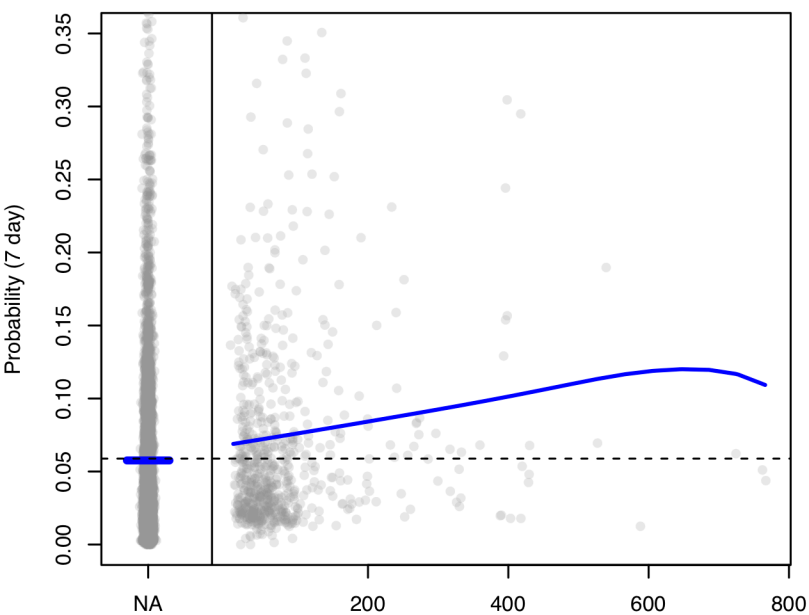
Chronic_Obstructive_Pulmonary_Disease (Pct.Var = 0.3)



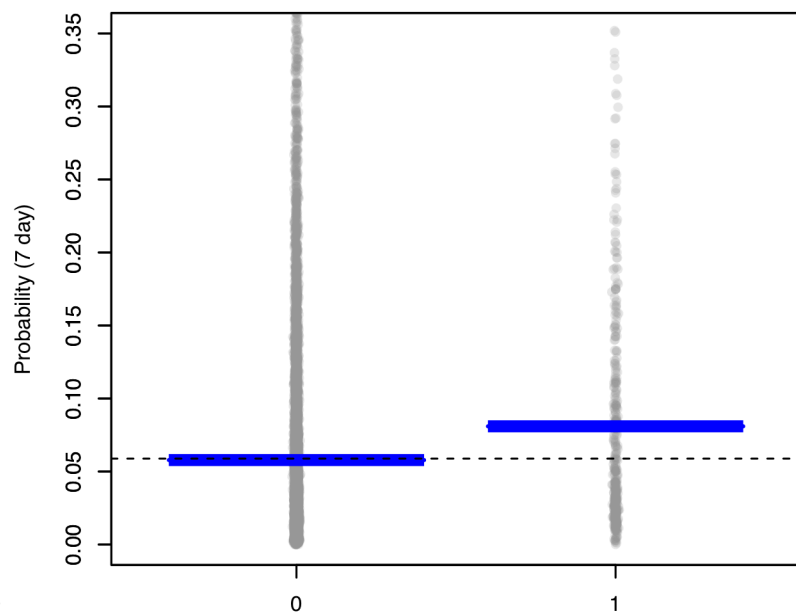
Acute_Myocardial_Infarction (Pct.Var = 0.3)



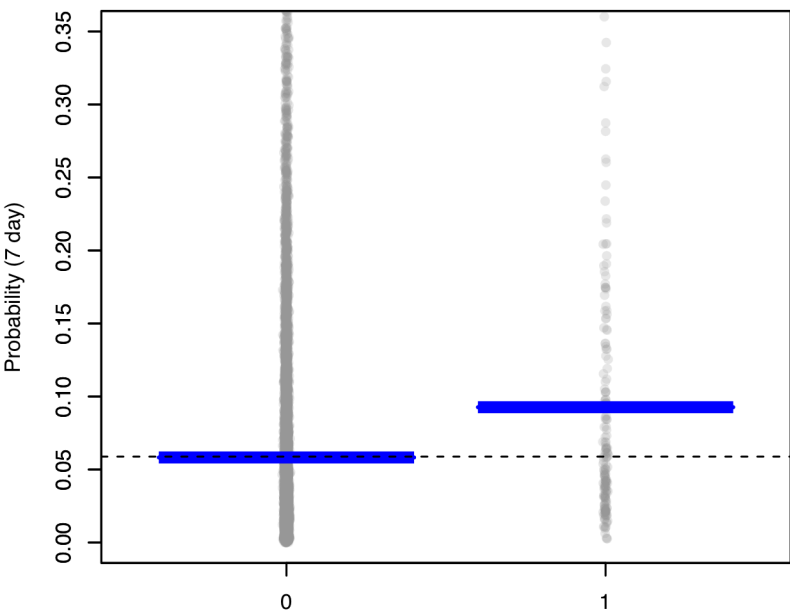
Amylase (Pct.Var = 0.3)



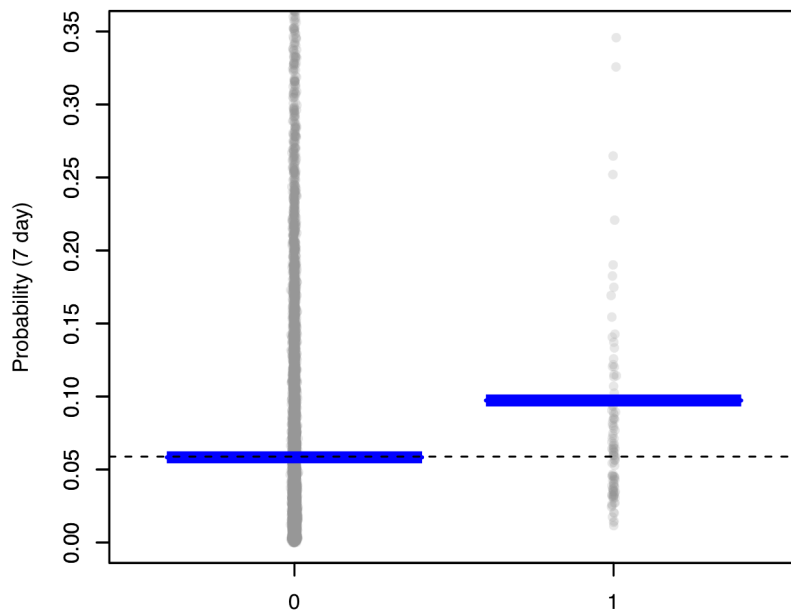
Diabetes_with_Chronic_Complications (Pct.Var = 0.3)



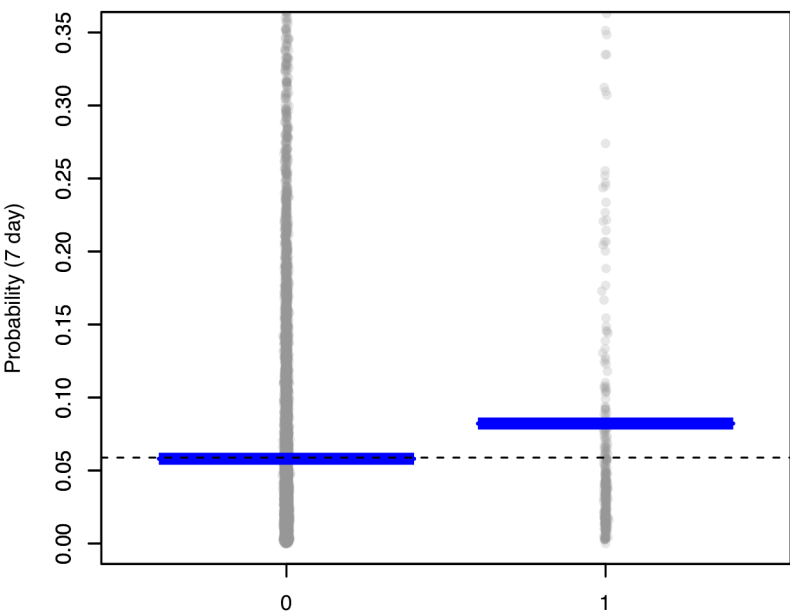
Chronic_Kidney_Disease_Stage_5 (Pct.Var = 0.3)



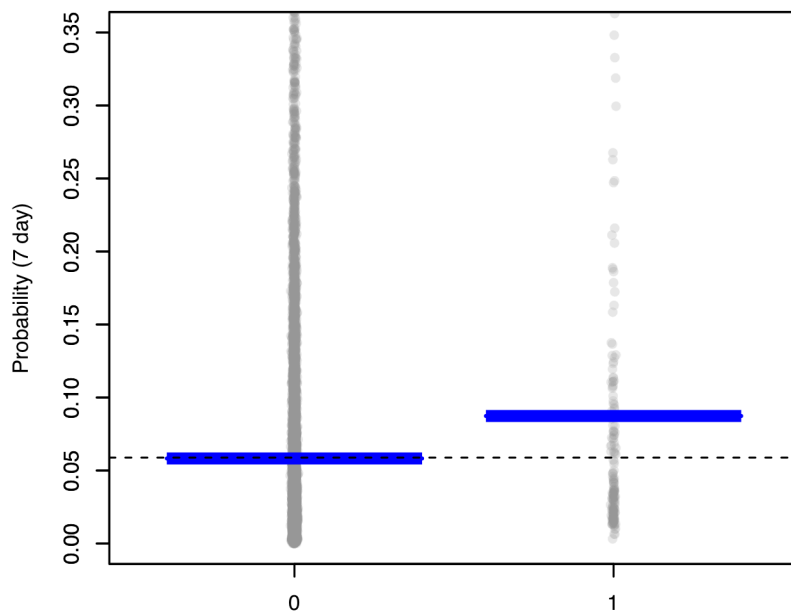
End_Stage_Liver_Disease (Pct.Var = 0.3)



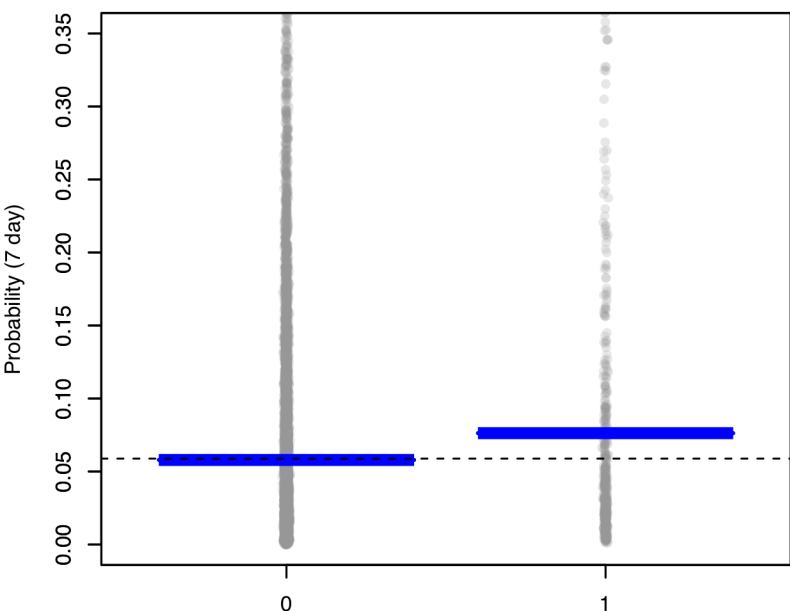
Vascular_Disease_with_Complications (Pct.Var = 0.2)



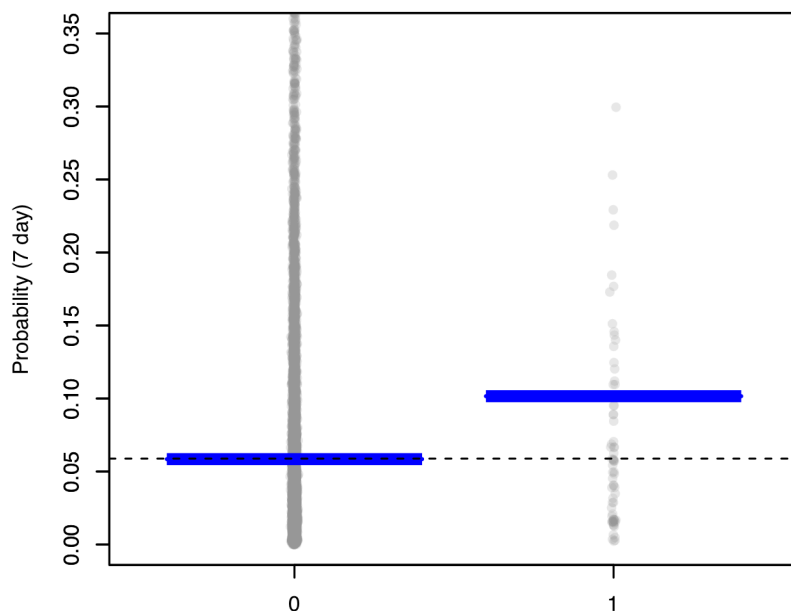
Chronic_Kidney_Disease_Moderate_Stage_3 (Pct.Var = 0.2)



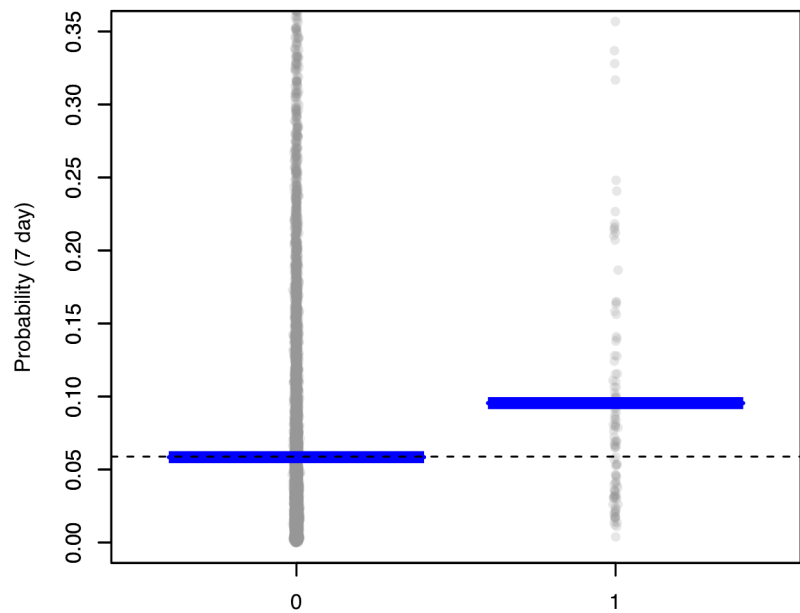
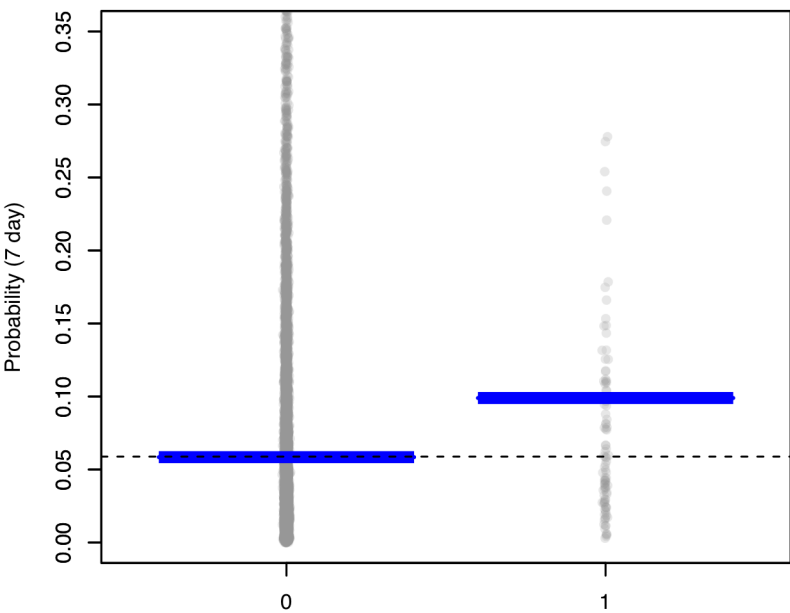
Lymphoma_and_Other_Cancers (Pct.Var = 0.2)



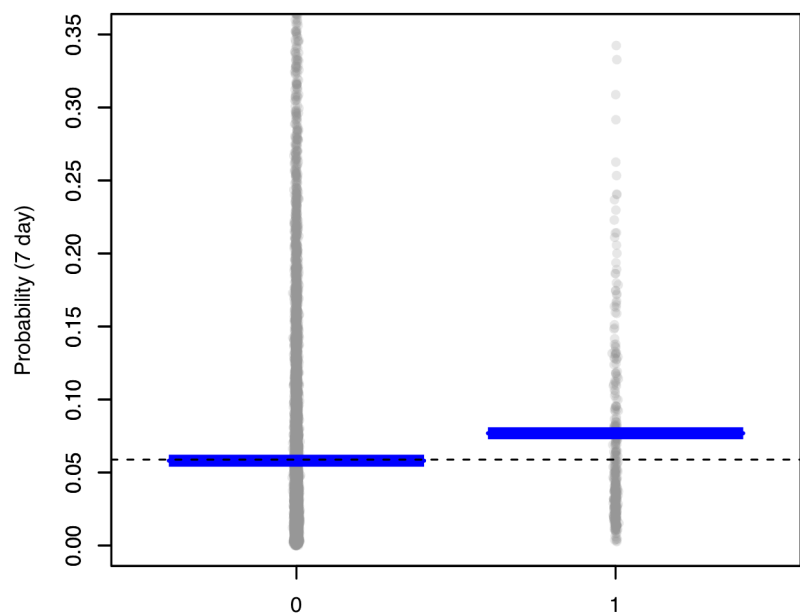
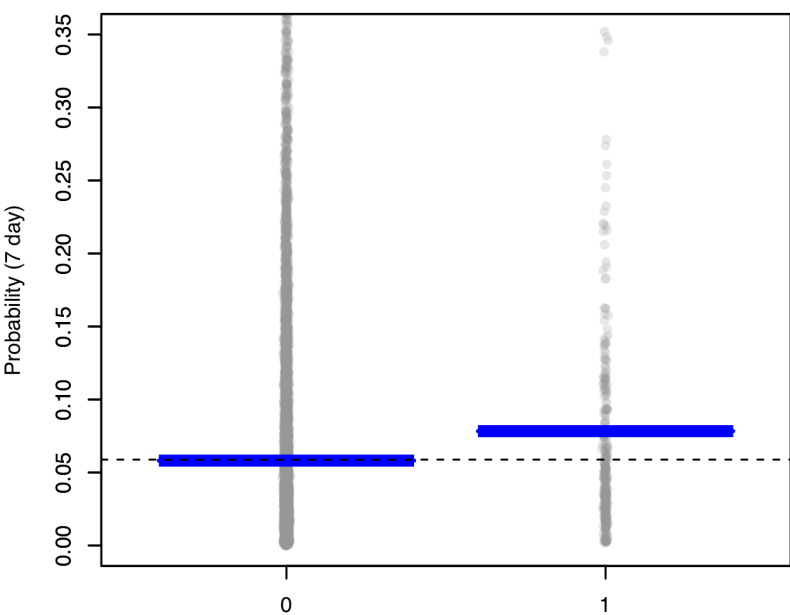
Opportunistic_Infections (Pct.Var = 0.2)



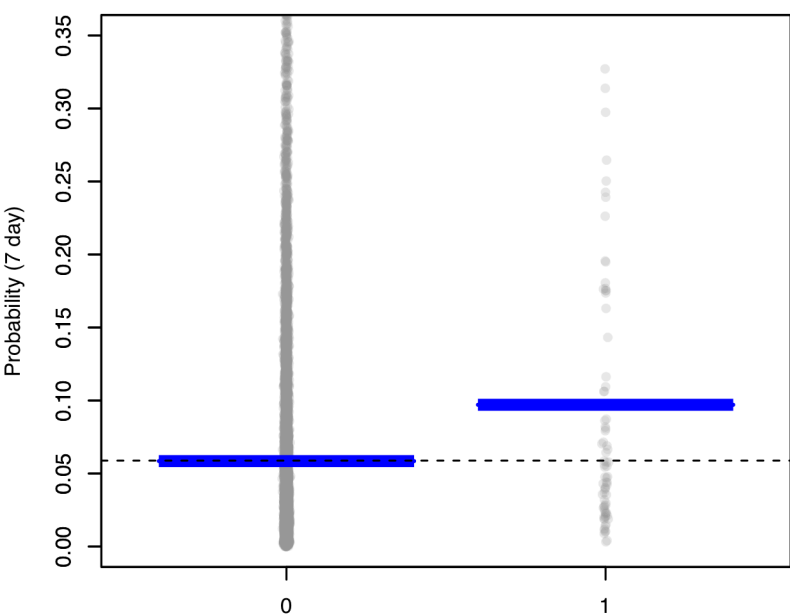
therosclerosis_of_the_Extremities_with_Ulceration_or_Gangrene (Pct. Var = 0.2) Pneumococcal_Pneumonia_Empyema_Lung_Abscess (Pct. Var = 0.2)



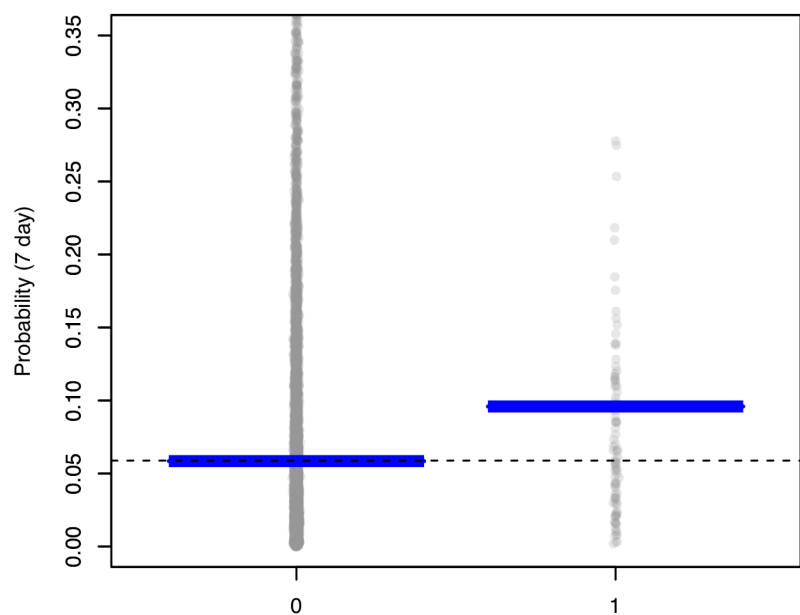
ulation_Defects_and_Other_Specified_Hematological_Disorders (Pct. Kidney_Disease_Mild_or_Unspecified_Stages_1_2_or_Unspecified



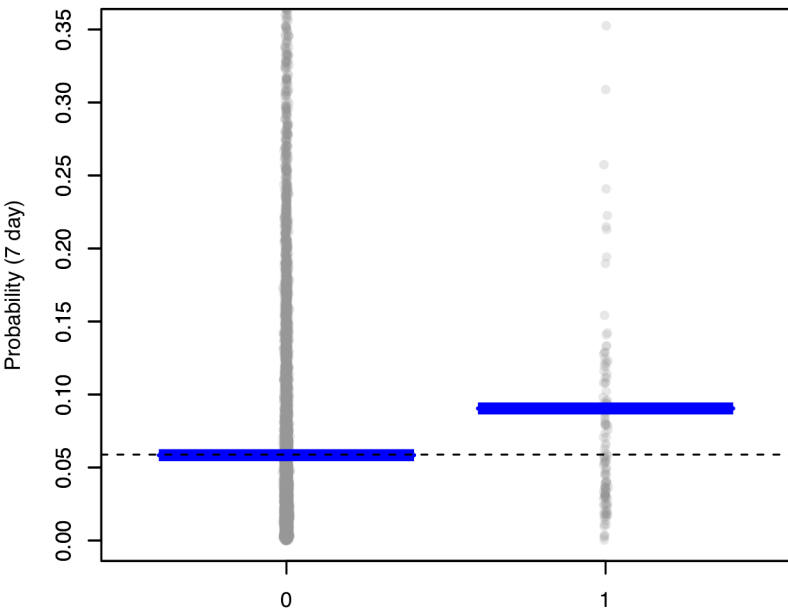
Vertebral_Fractures_without_Spinal_Cord_Injury (Pct. Var = 0.2)



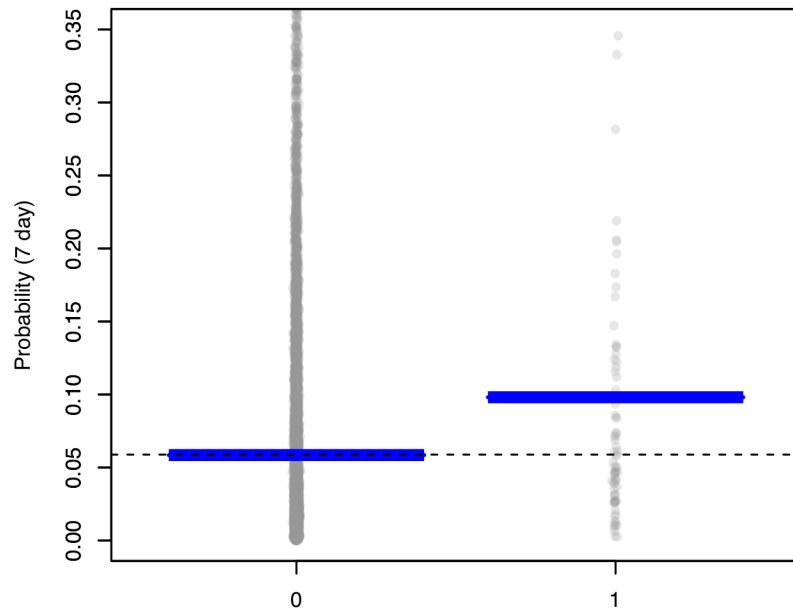
Severe_Hematological_Disorders (Pct. Var = 0.2)



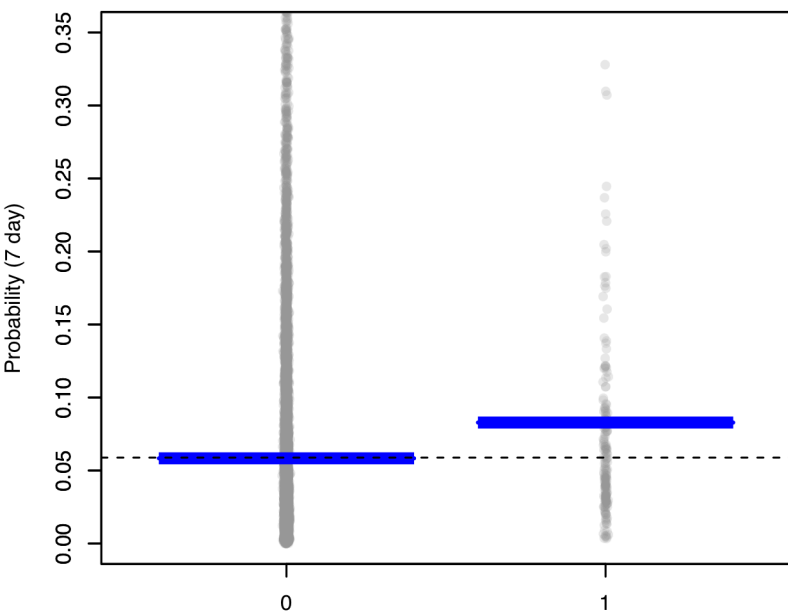
Protein_Calorie_Malnutrition (Pct.Var = 0.2)



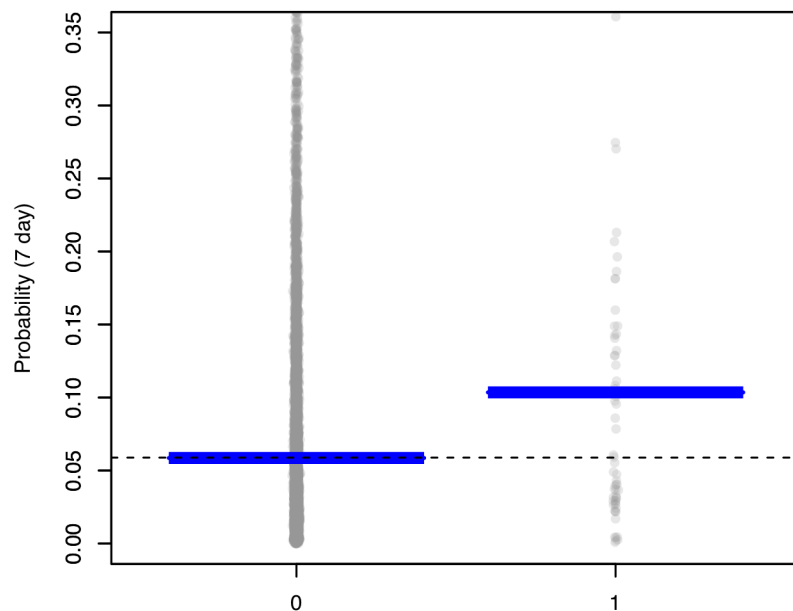
Dialysis_Status (Pct.Var = 0.2)



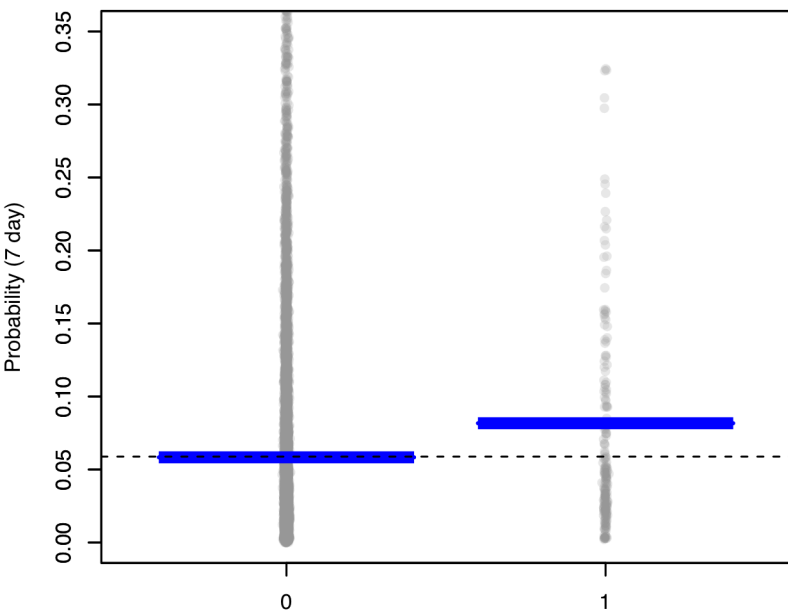
Cirrhosis_of_Liver (Pct.Var = 0.2)



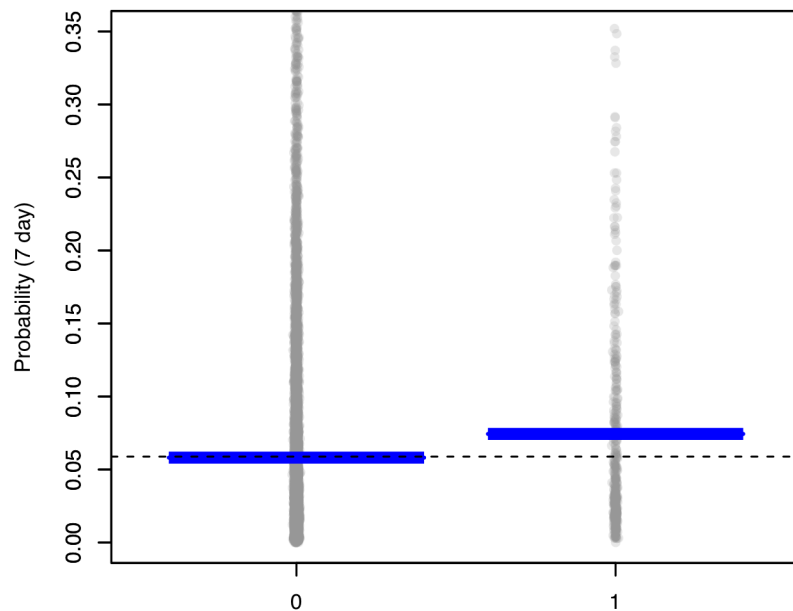
Pressure_Ulcer_of_Skin_with_Partial_Thickness_Skin_Loss (Pct.Var = 0.2)



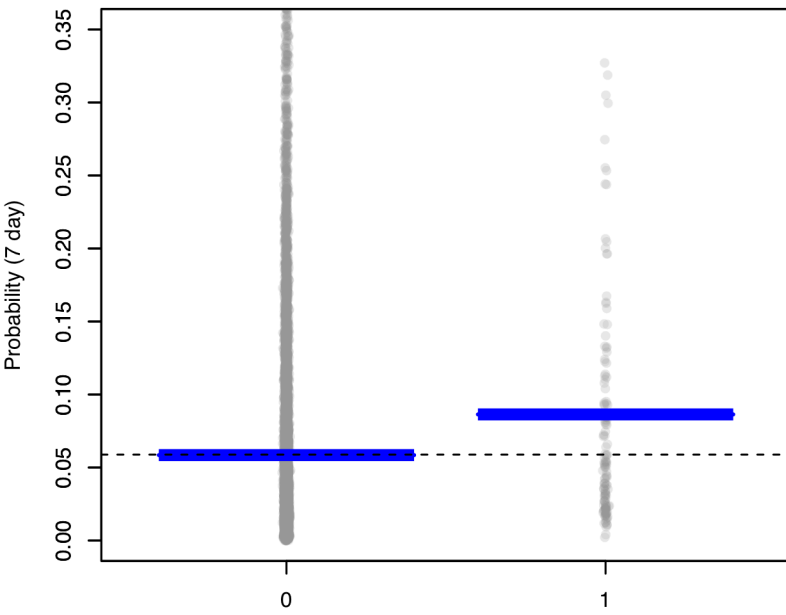
Intestinal_Obstruction_Perforation (Pct.Var = 0.1)



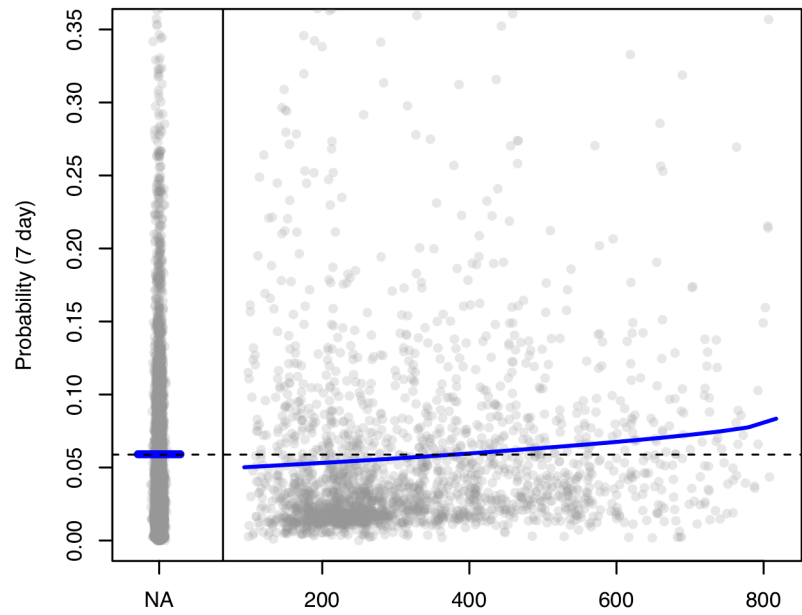
Polyneuropathy (Pct.Var = 0.1)



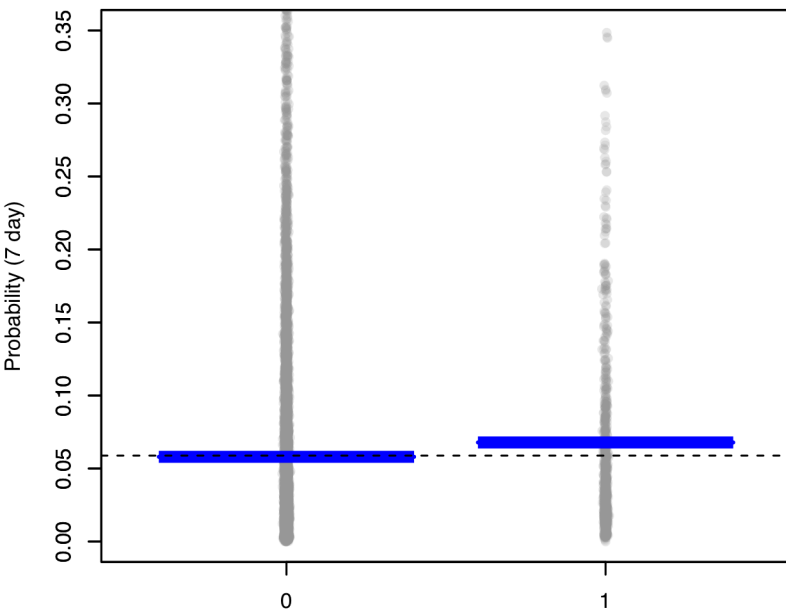
Nephritis (Pct.Var = 0.1)



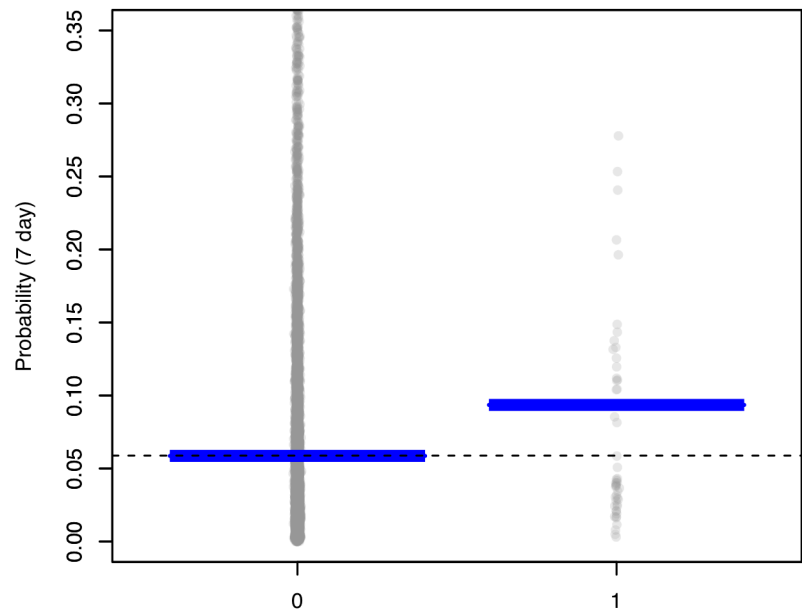
Fibrinogen (Pct.Var = 0.1)



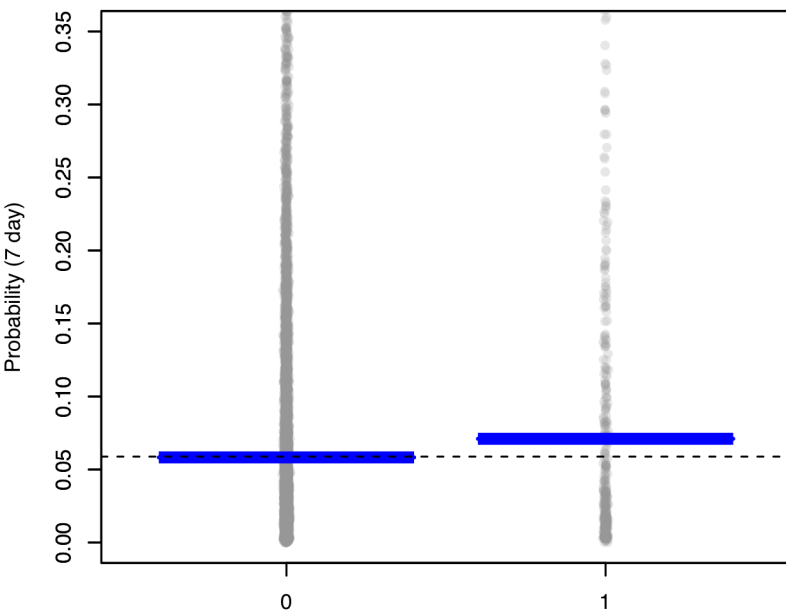
Vascular_Disease (Pct.Var = 0.1)



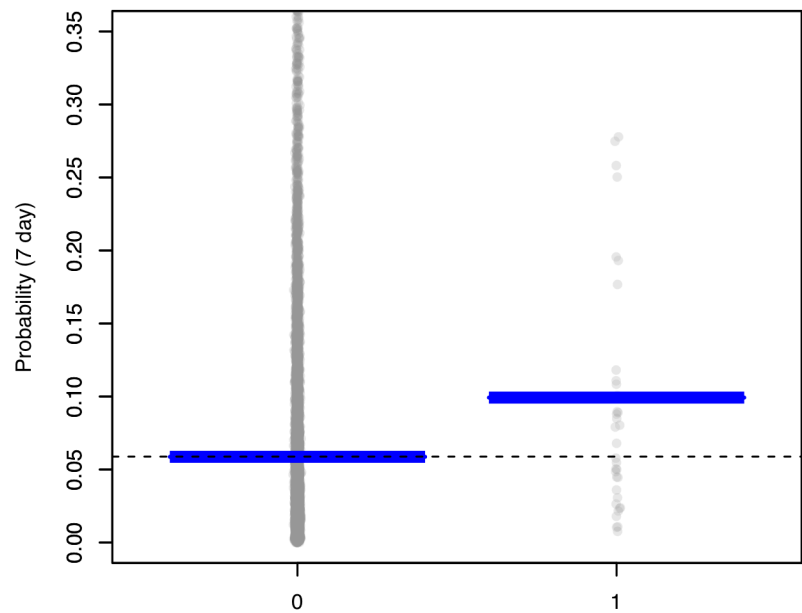
Amputation_Status_Lower_Limb_Amputation_Complications (Pct.Var = 0.1)



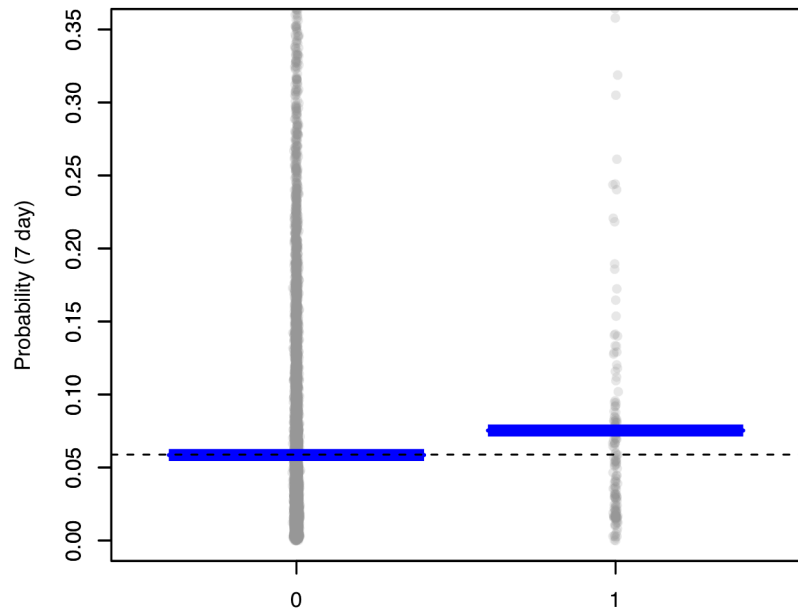
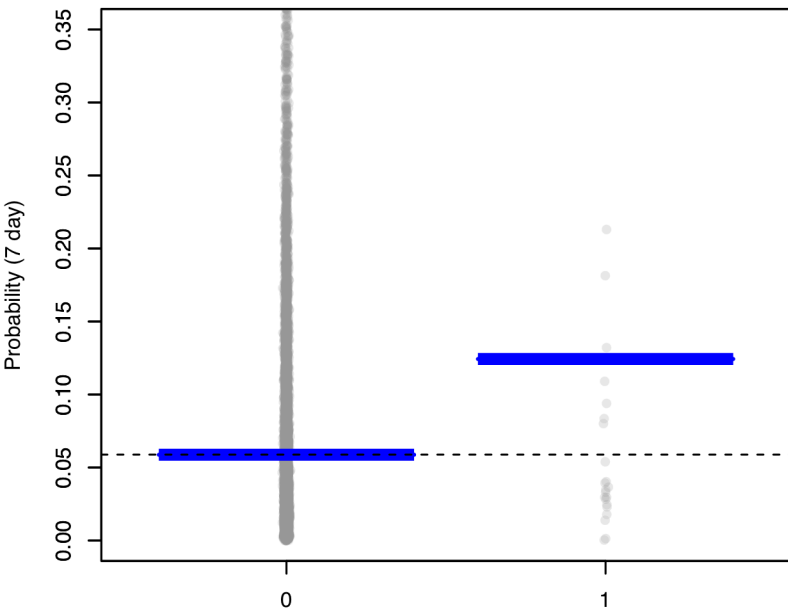
Breast_Prostate_and_Other_Cancers_and_Tumors (Pct.Var = 0.0)



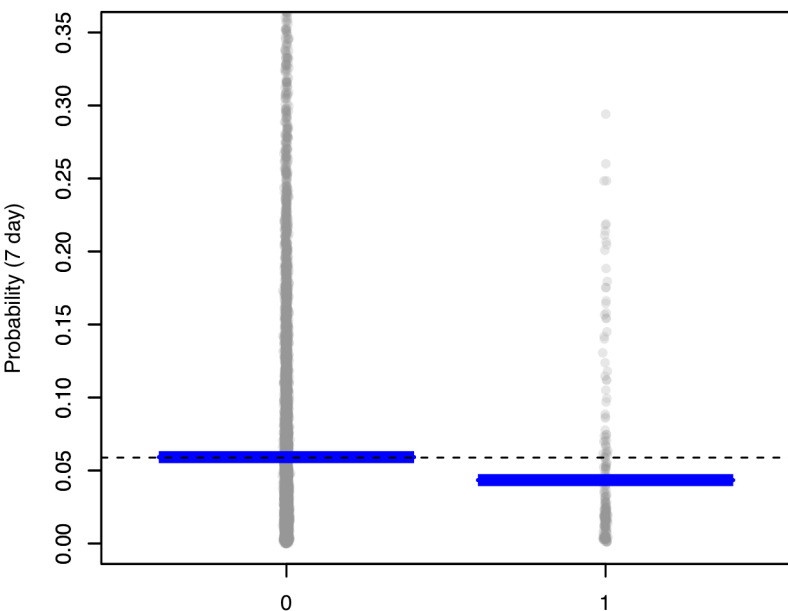
Exudative_Macular_Degeneration (Pct.Var = 0.1)



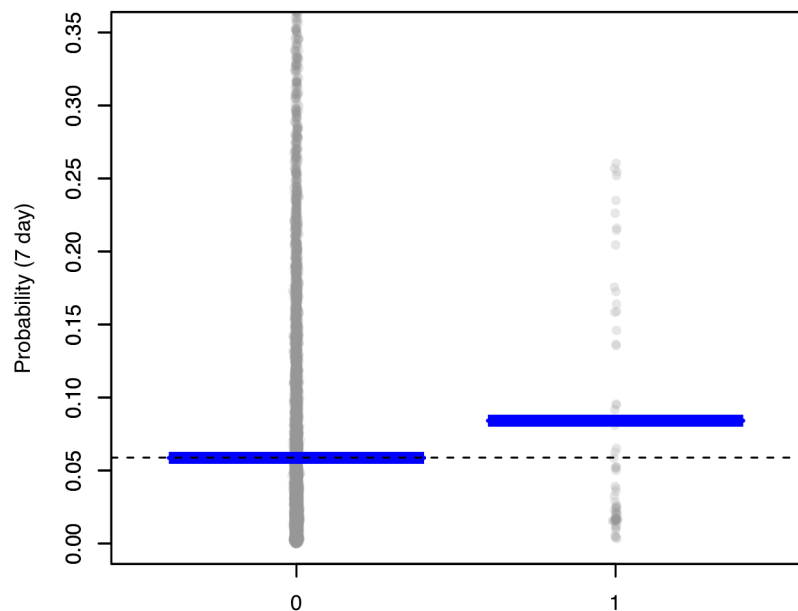
Ulcer_of_Skin_with_Necrosis_Through_to_Muscle_Tendon_or_Bone (Pct.Var = 0.1) Fibrosis_of_Lung_and_Other_Chronic_Lung_Disorders (Pct.Var = 0.1)



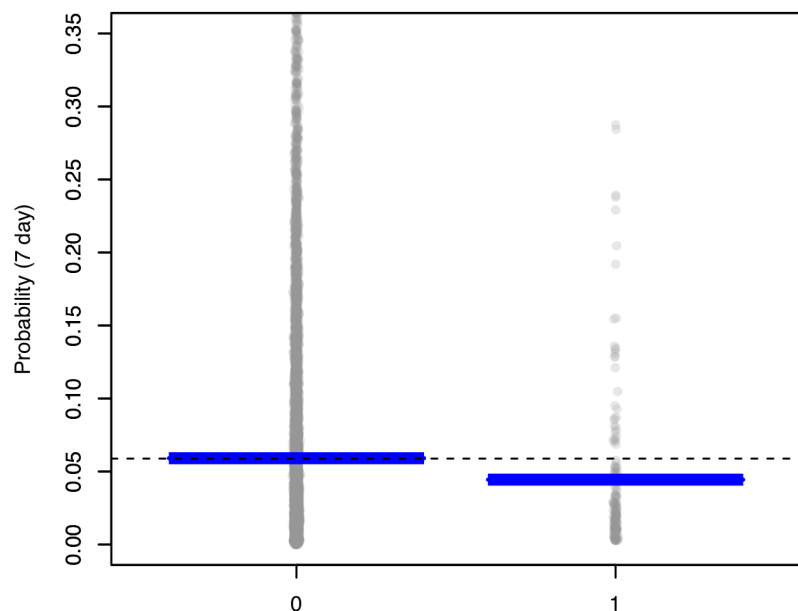
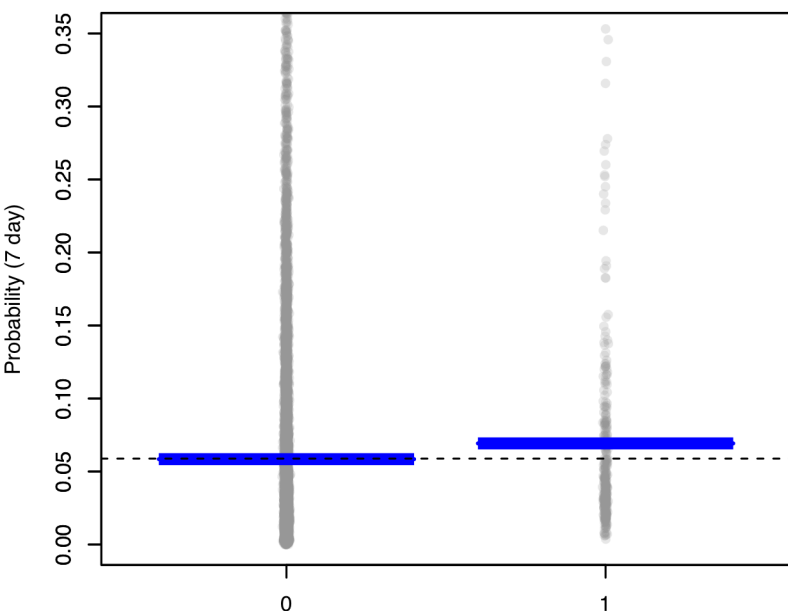
Seizure_Disorders_and_Convulsions (Pct.Var = 0.1)



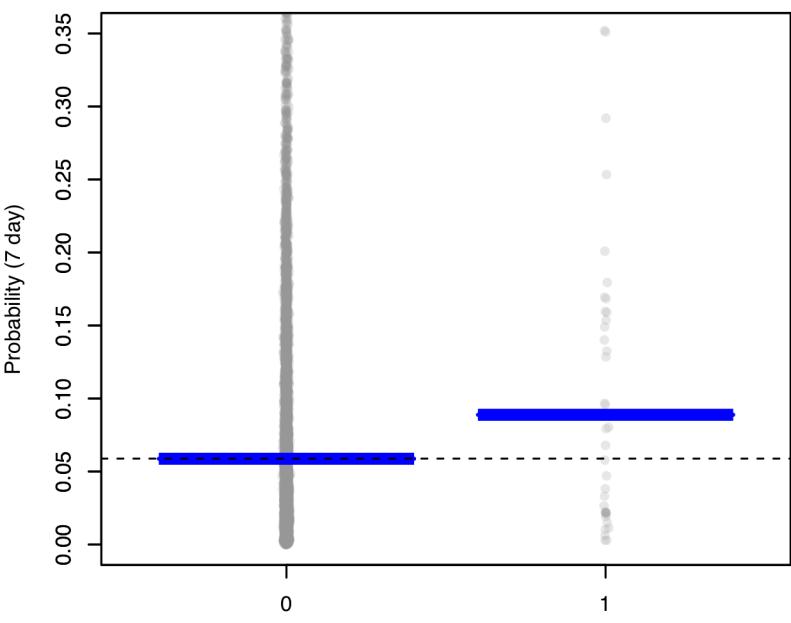
Unstable_Angina_and_Other_Acute_Ischemic_Heart_Disease (Pct.Var = 0.1)



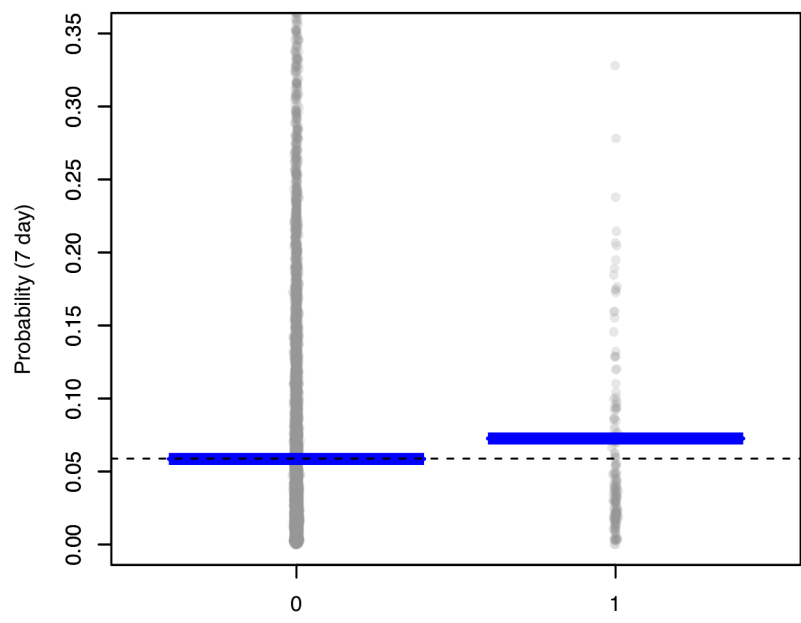
Major_Organ_Transplant_or_Replacement_Status (Pct.Var = 0.1) Complications_of_Specified_Implanted_Device_or_Graft (Pct.Var = 0.1)



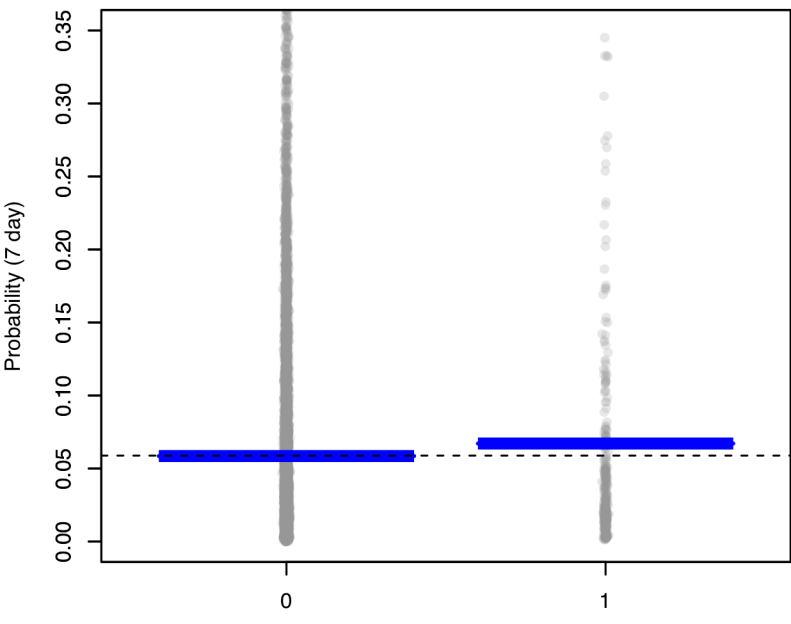
Proliferative_Diabetic_Retinopathy_and_Vitreous_Hemorrhage (Pct.Var = 0.0)



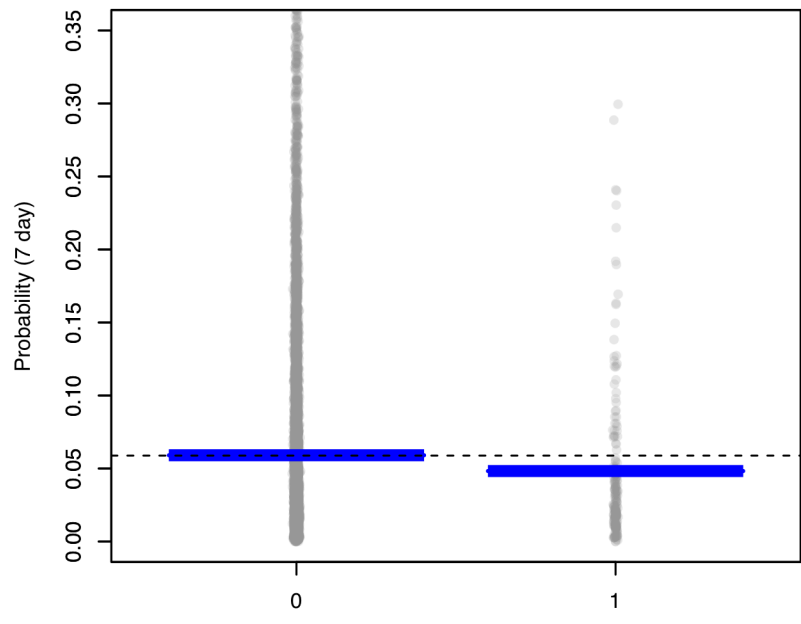
Bone_Joint_Muscle_Infections_Necrosis (Pct.Var = 0.0)



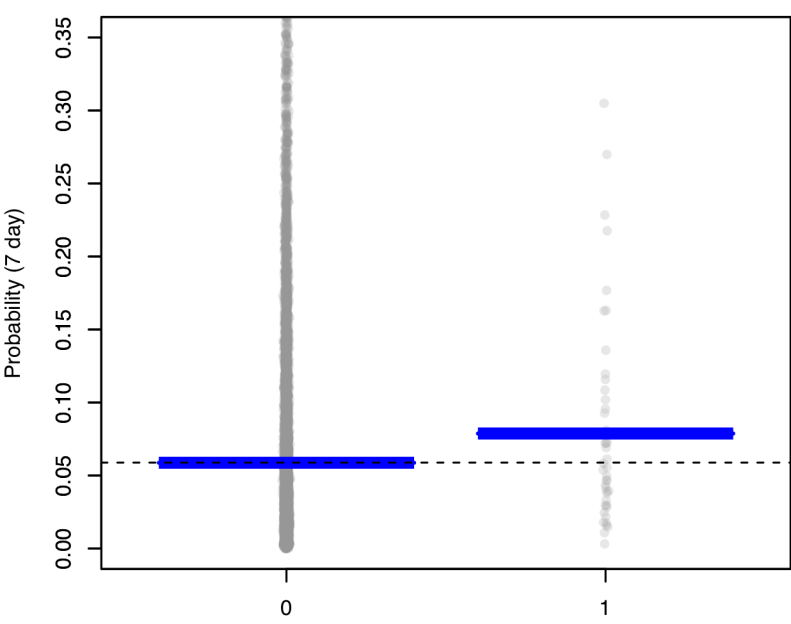
Colorectal_Bladder_and_Other_Cancers (Pct.Var = 0.0)



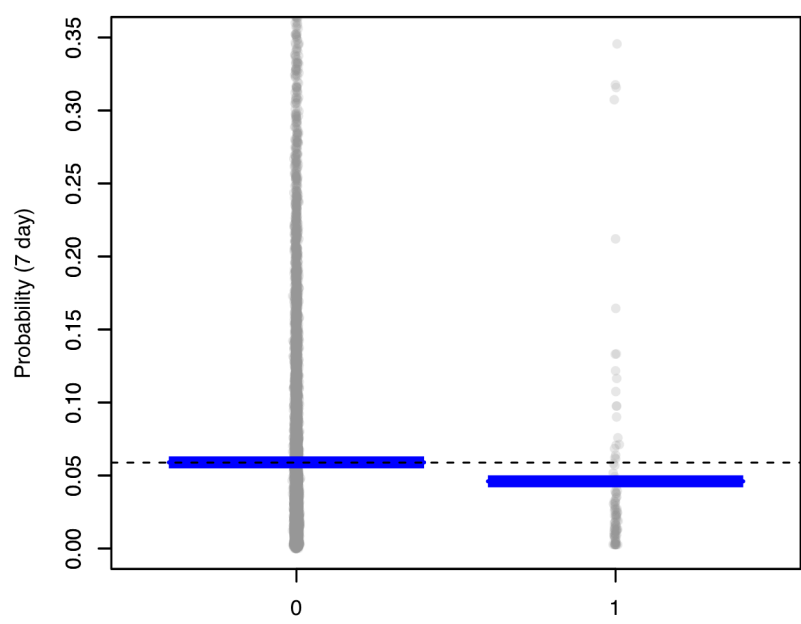
Morbid_Obesity (Pct.Var = 0.0)



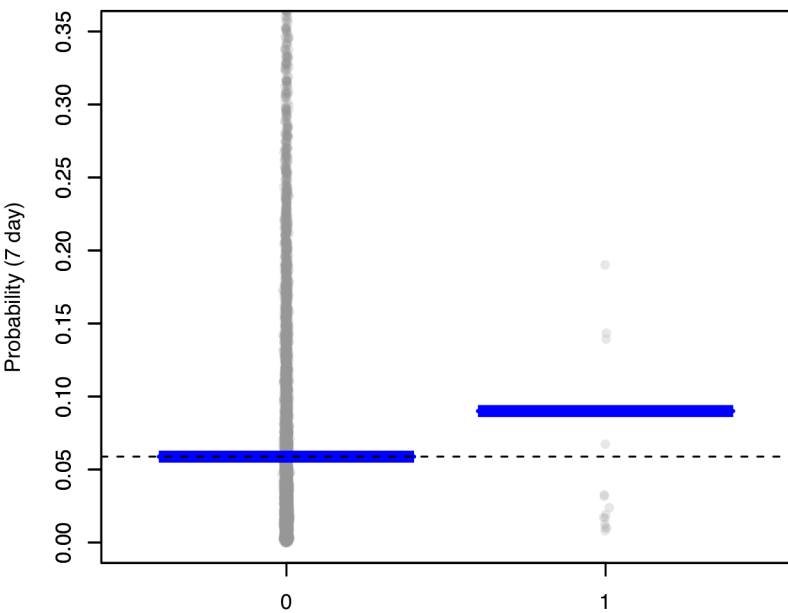
Unspecified_Renal_Failure (Pct.Var = 0.0)



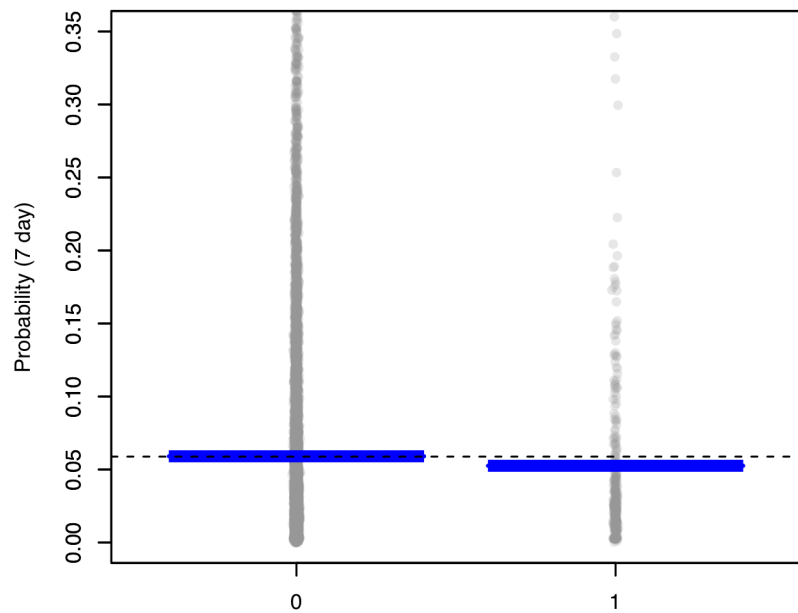
Inflammatory_Bowel_Disease (Pct.Var = 0.0)



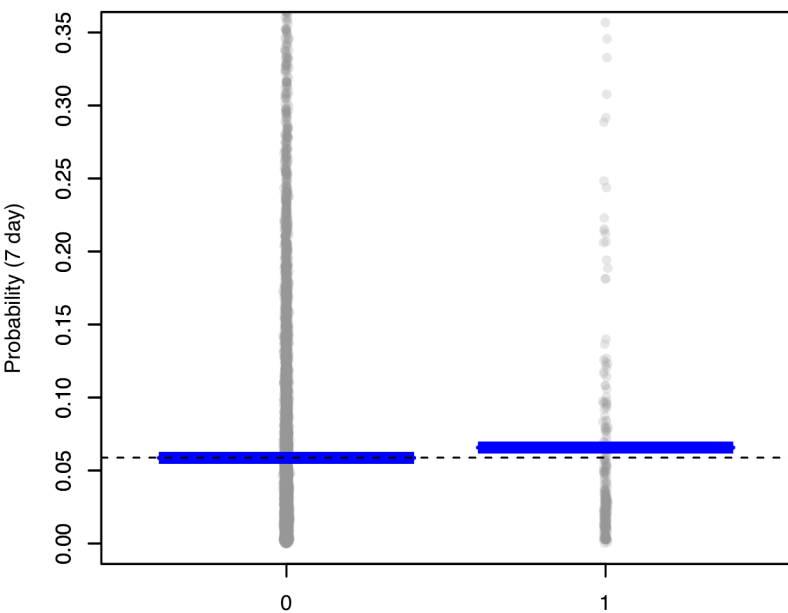
Traumatic_Amputations_and_Complications (Pct.Var = 0.0)



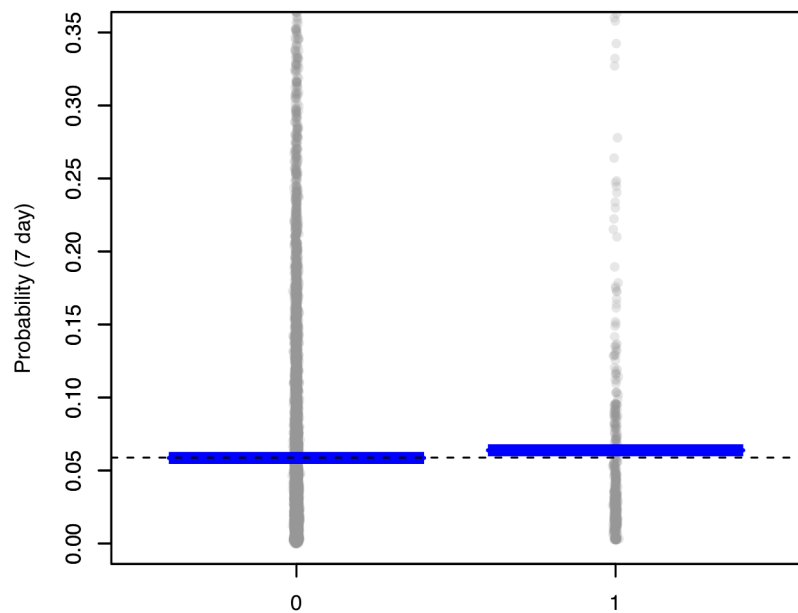
Major_Depressive_Bipolar_and_Paranoid_Disorders (Pct.Var = 0.0)



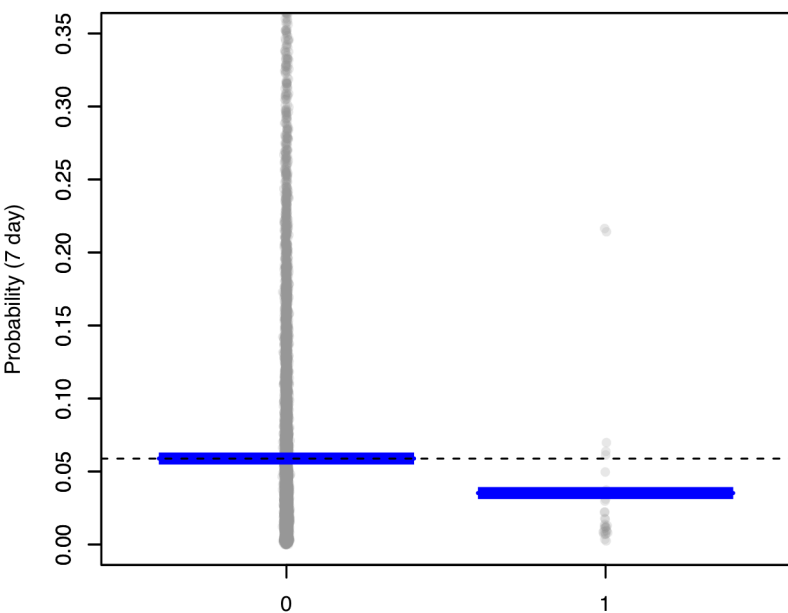
Artificial_Openings_for_Feeding_or_Elimination (Pct.Var = 0.0)



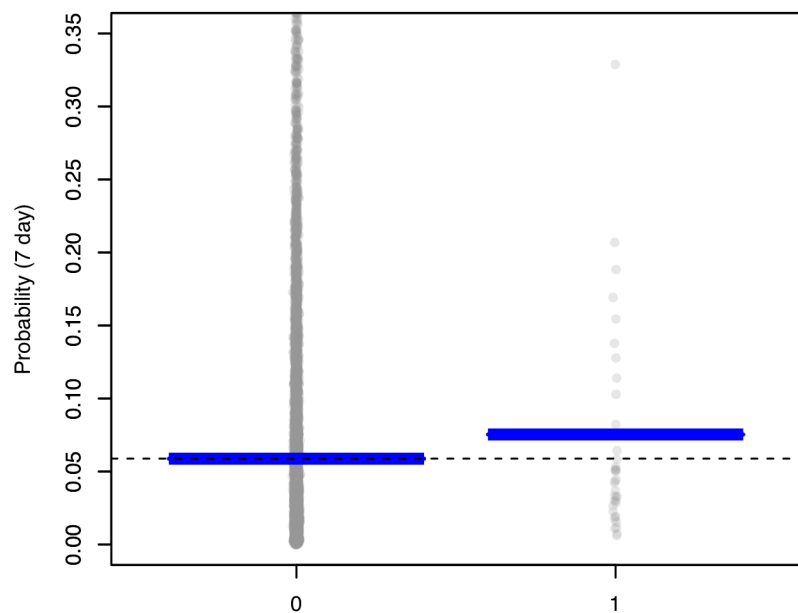
Other_Significant_Endocrine_and_Metabolic_Disorders (Pct.Var = 0.0)



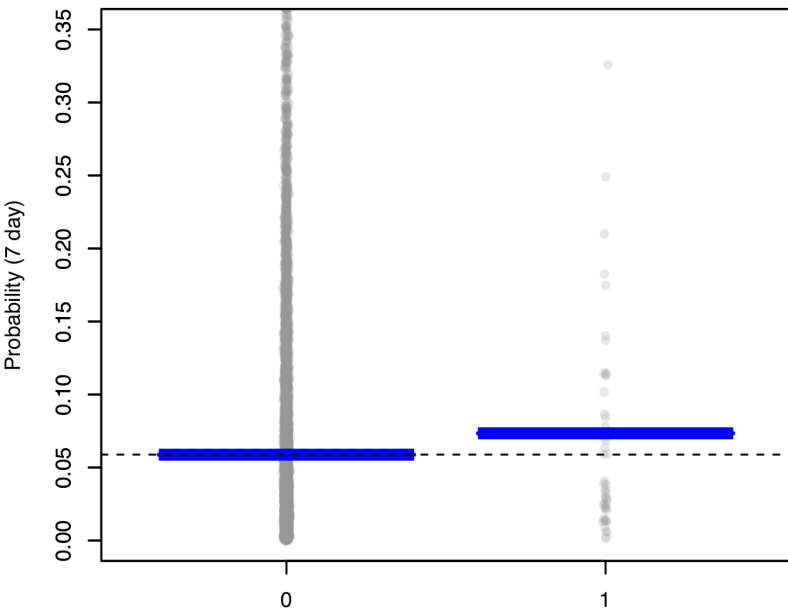
Schizophrenia (Pct.Var = 0.0)



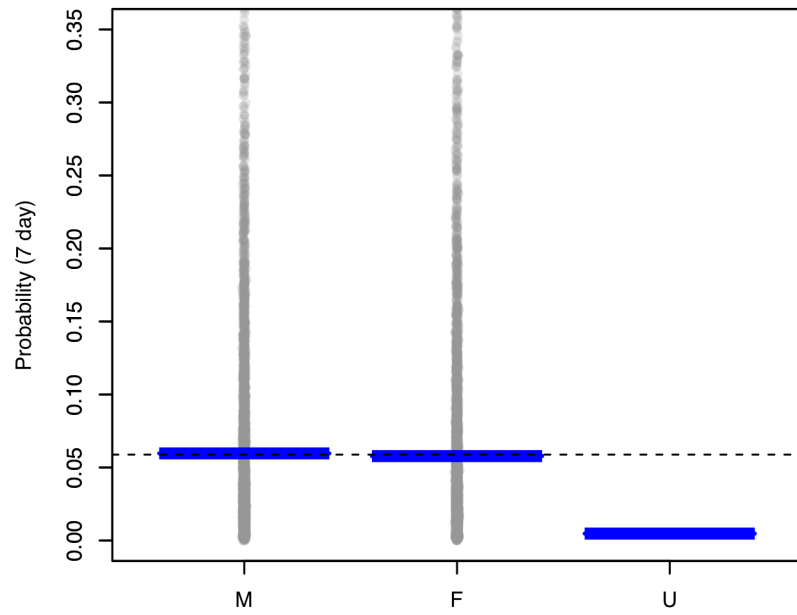
Parkinsons_and_Huntingtons_Diseases (Pct.Var = 0.0)



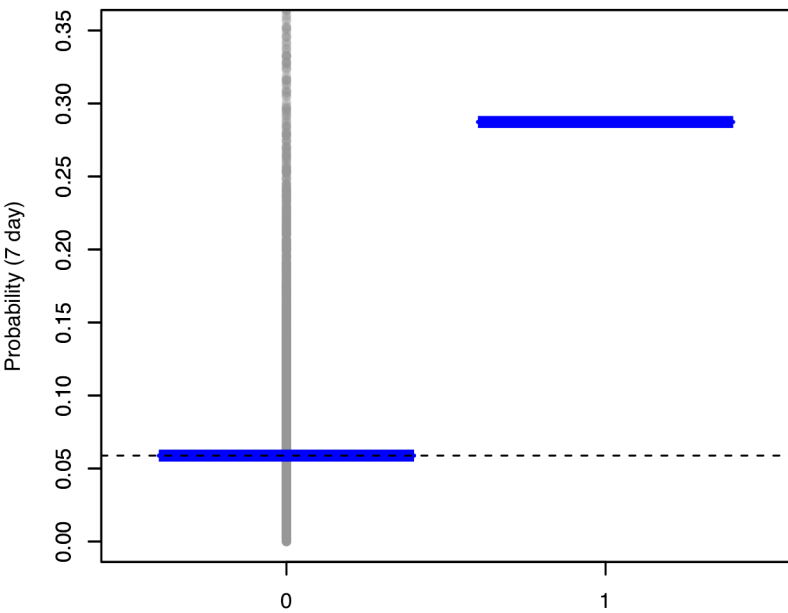
Chronic_Hepatitis (Pct.Var = 0.0)



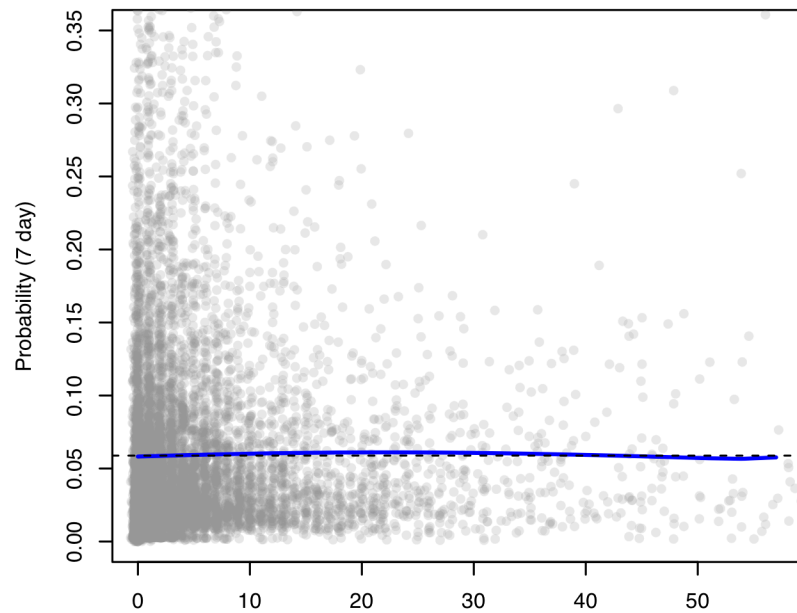
gender (Pct.Var = 0.0)



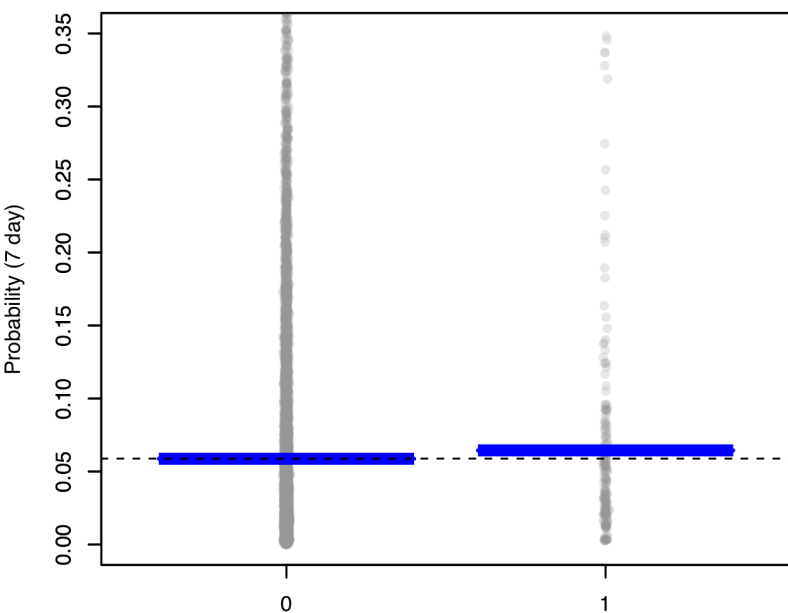
Respiratory_Arrest (Pct.Var = 0.0)



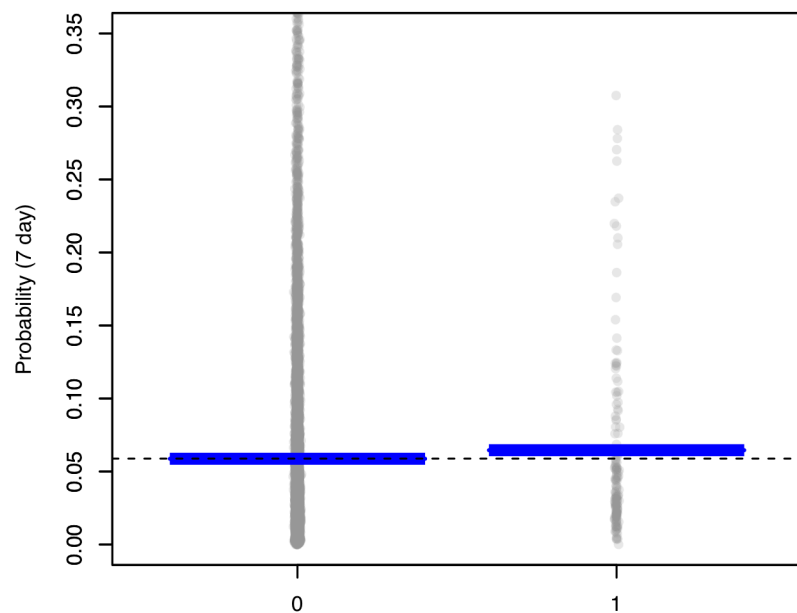
DAYCOV (Pct.Var = 0.0)



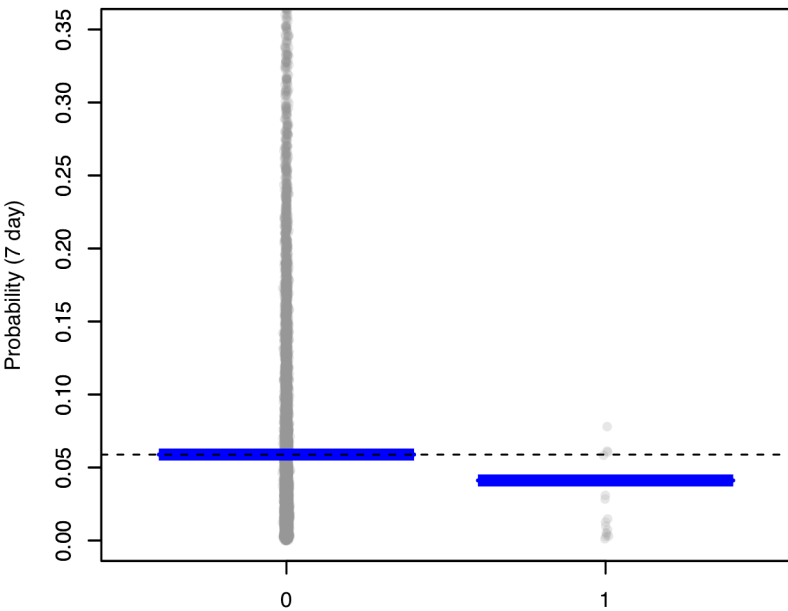
Rheumatoid_Arthritis_and_Inflammatory_Connective_Tissue_Disease (Pct.Var = 0.0)



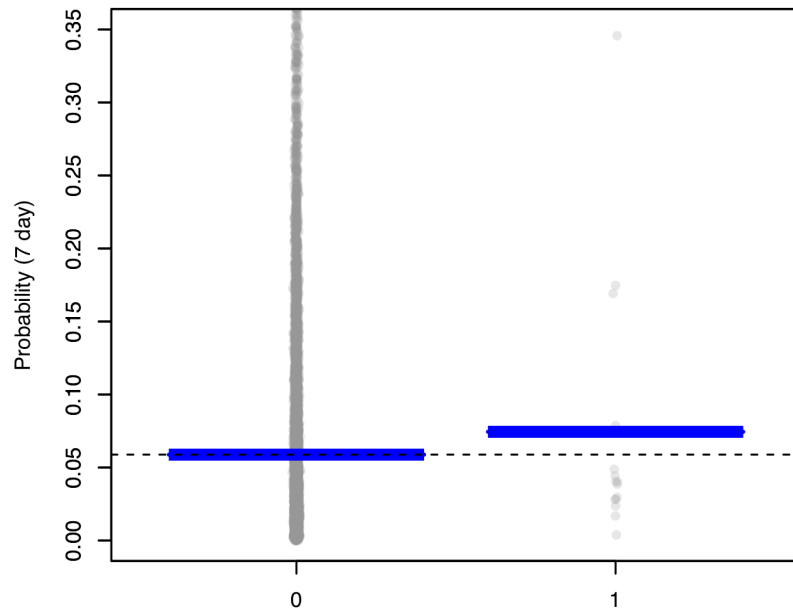
Ischemic_or_Unspecified_Stroke (Pct.Var = 0.0)



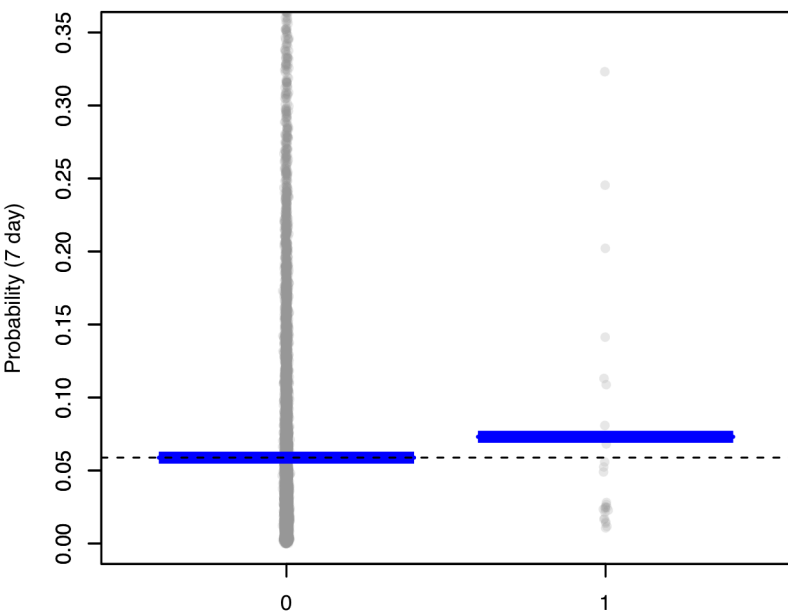
Multiple_Sclerosis (Pct.Var = 0.0)



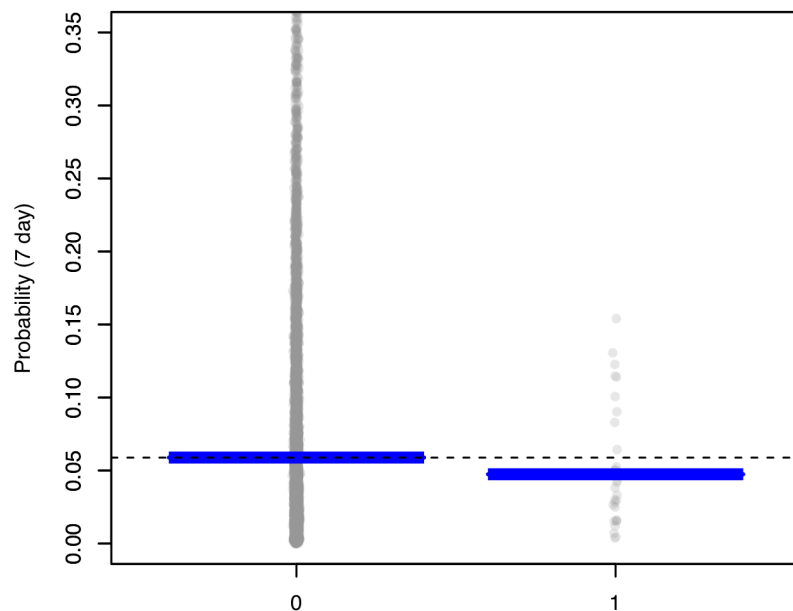
Chronic_Pancreatitis (Pct.Var = 0.0)



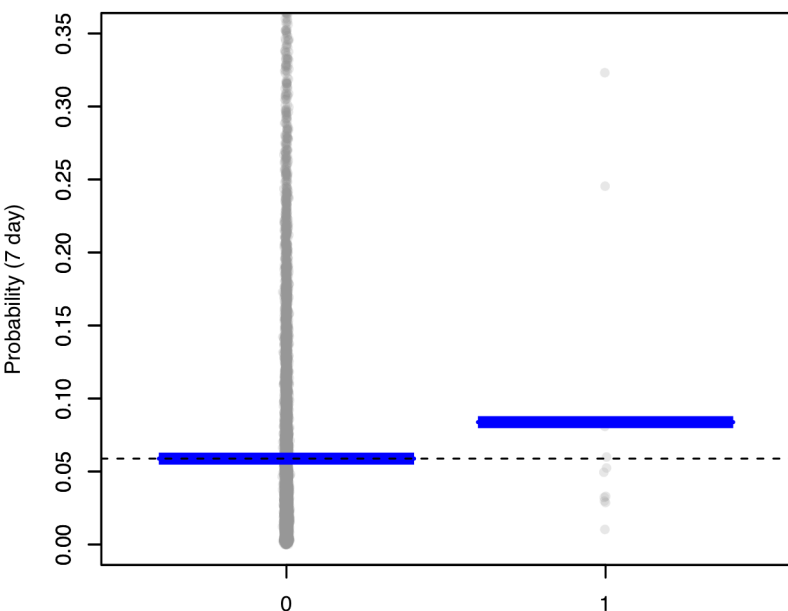
Respirator_Dependence_Tracheostomy_Status (Pct.Var = 0.0)



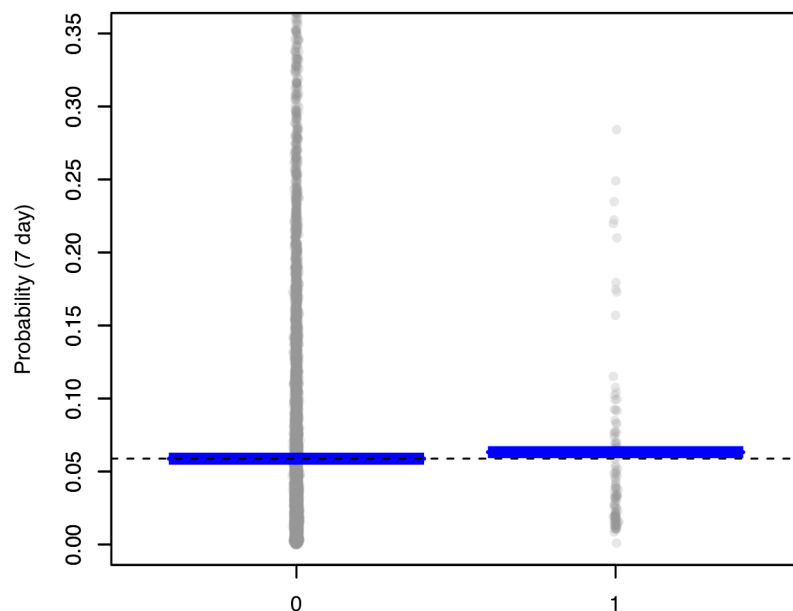
Dementia_With_Complications (Pct.Var = 0.0)



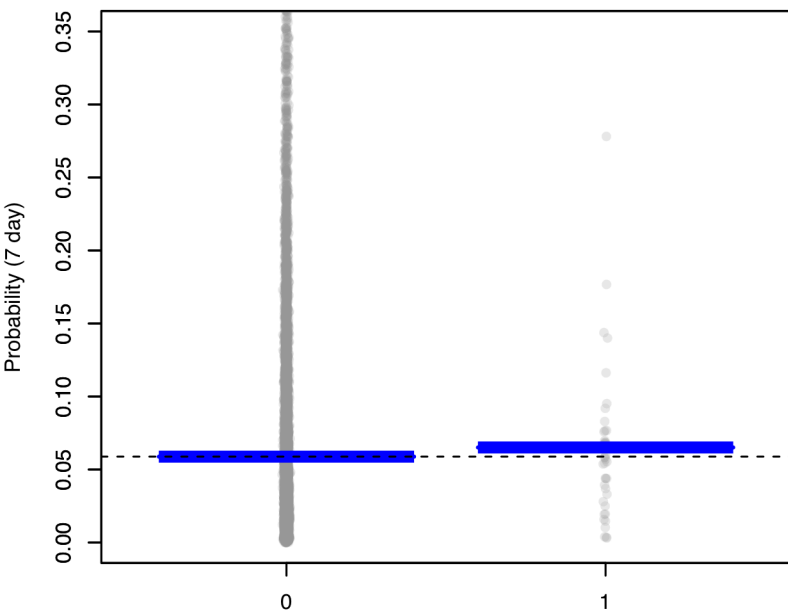
Cerebral_Palsy (Pct.Var = 0.0)



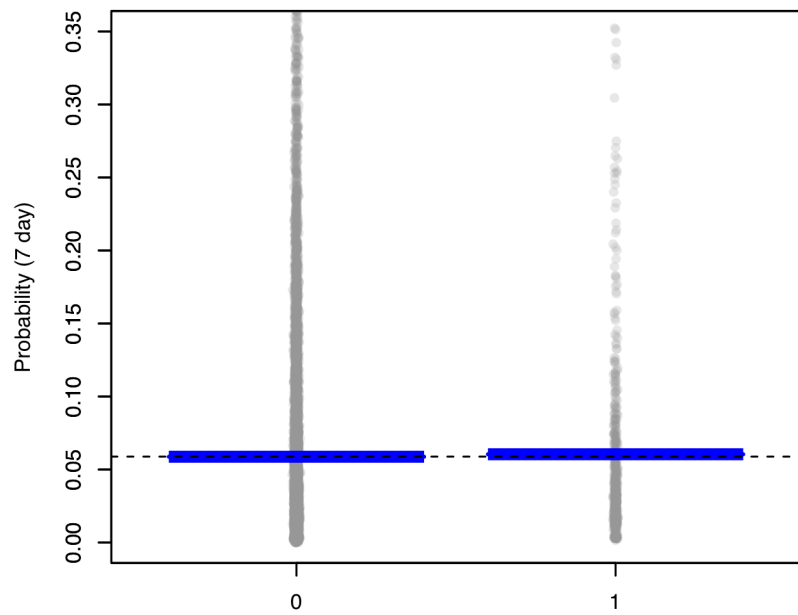
Hemiplegia_Hemiparesis (Pct.Var = 0.0)



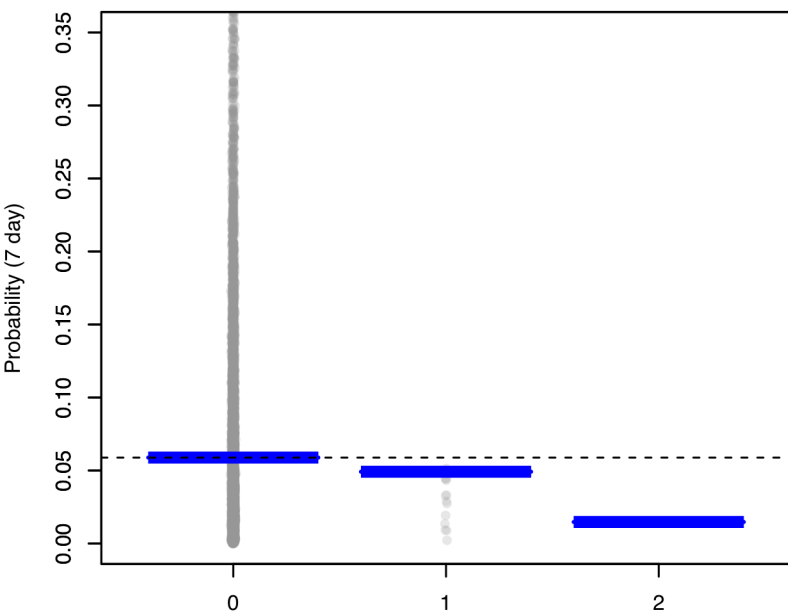
Cerebral_Hemorrhage (Pct.Var = 0.0)



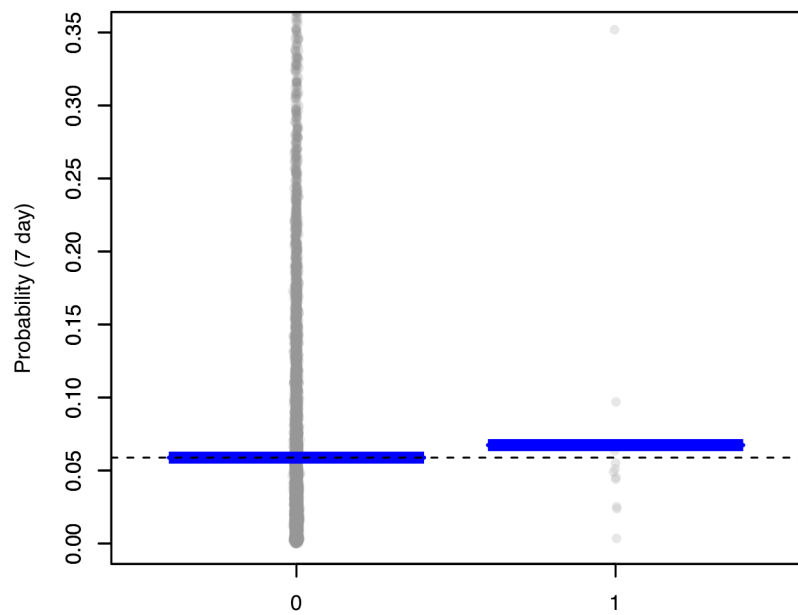
Diabetes_without_Complication (Pct.Var = 0.0)



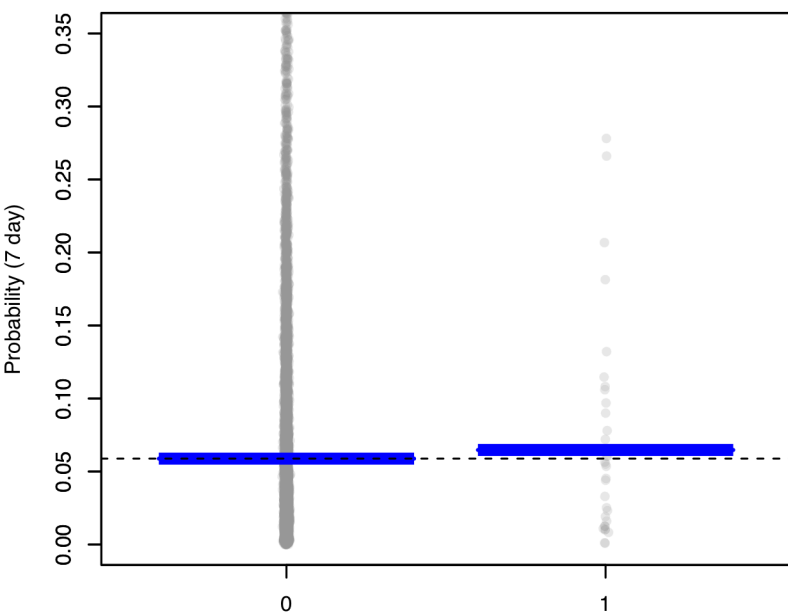
HIV_AIDS (Pct.Var = 0.0)



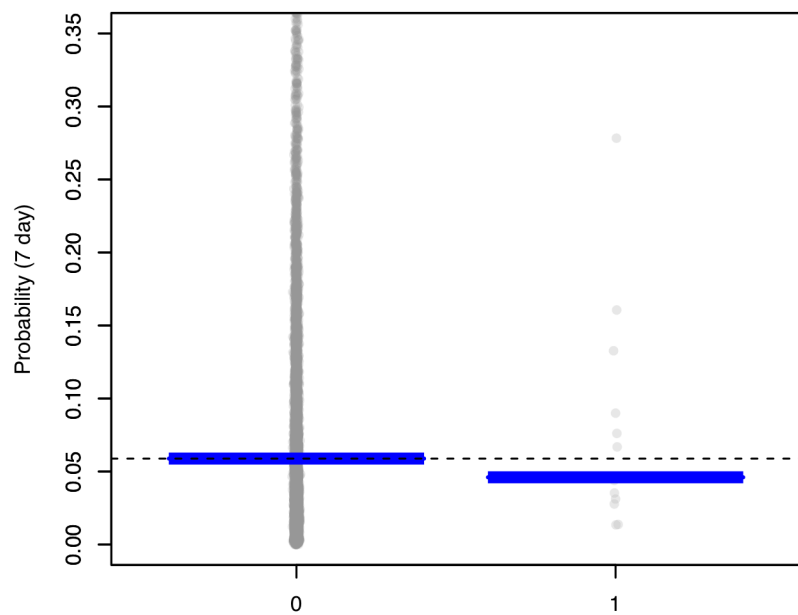
Coma_Brain_Compression_Anoxic_Damage (Pct.Var = 0.0)



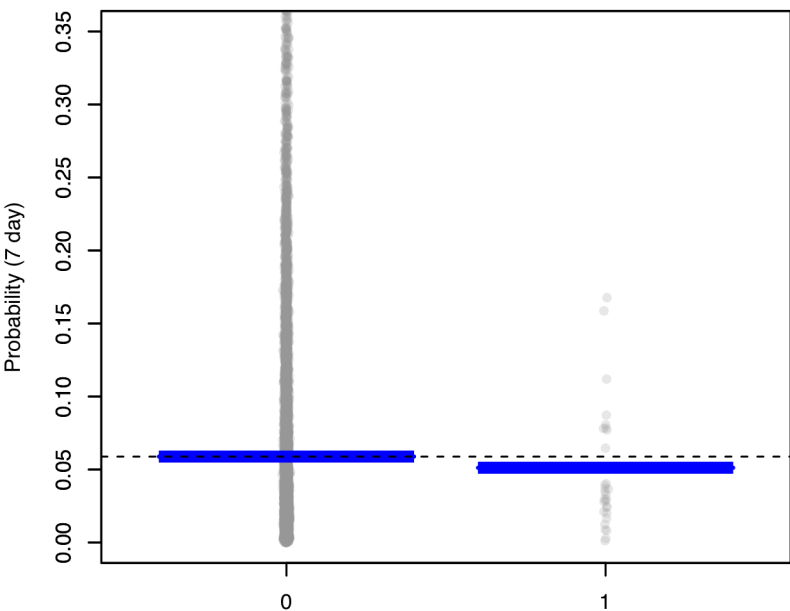
Quadriplegia (Pct.Var = 0.0)



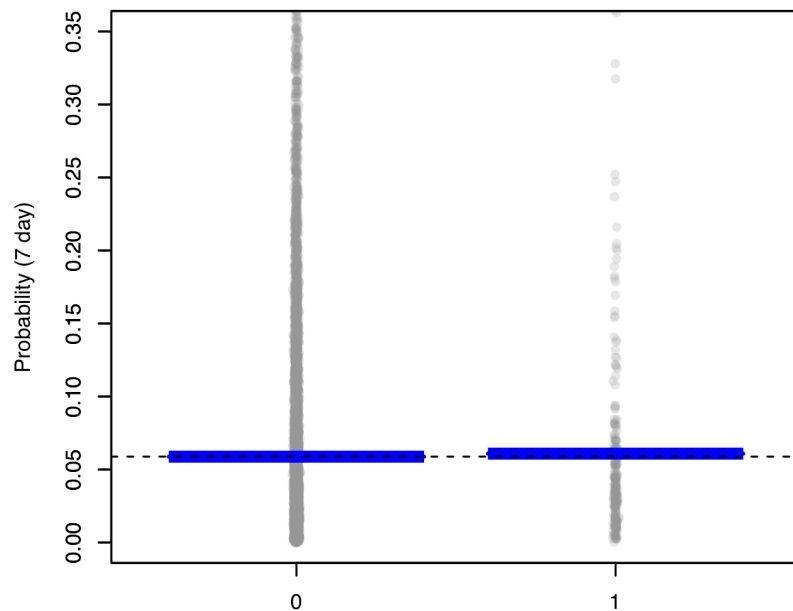
Muscular_Dystrophy (Pct.Var = 0.0)



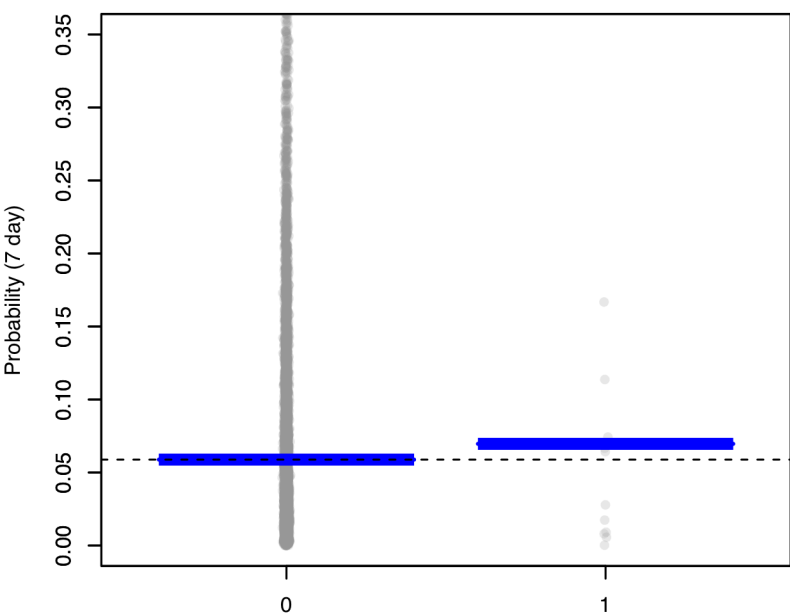
Paraplegia (Pct.Var = 0.0)



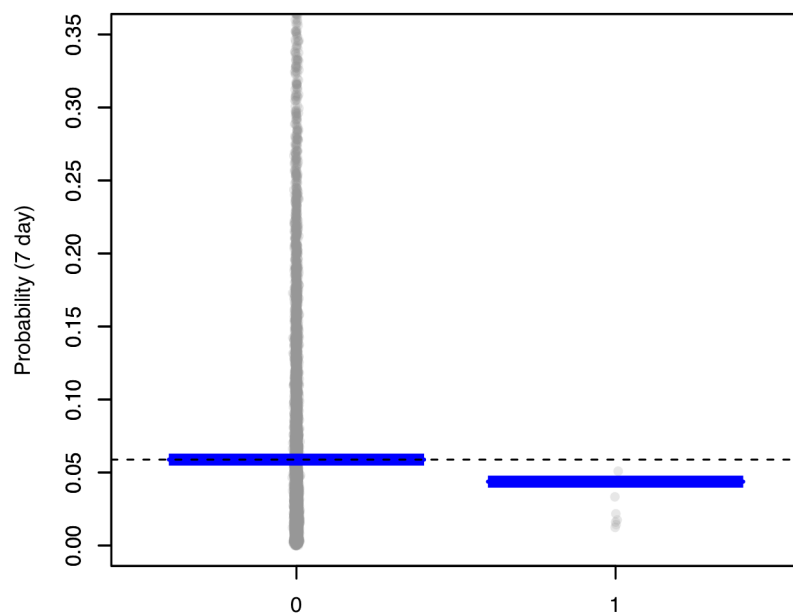
Drug_Alcohol_Dependence (Pct.Var = 0.0)



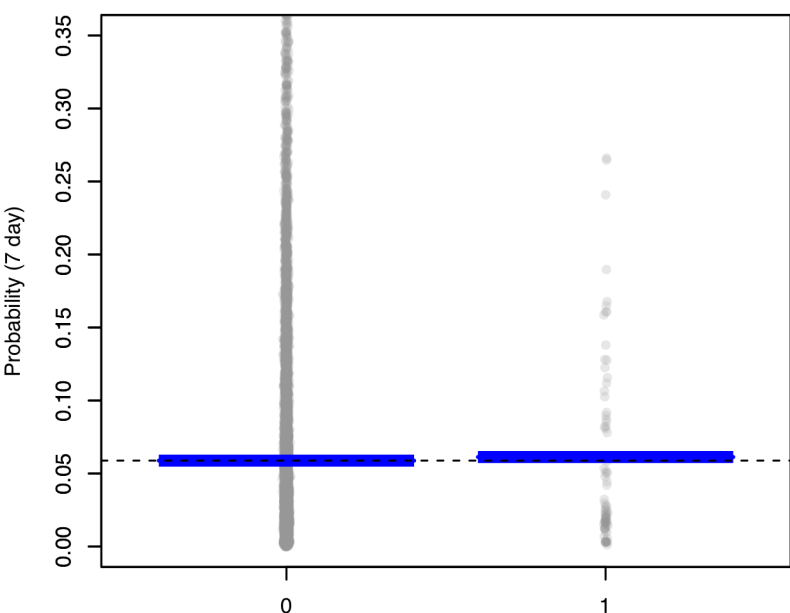
Atrophic_Lateral_Sclerosis_and_Other_Motor_Neuron_Disease (Pct



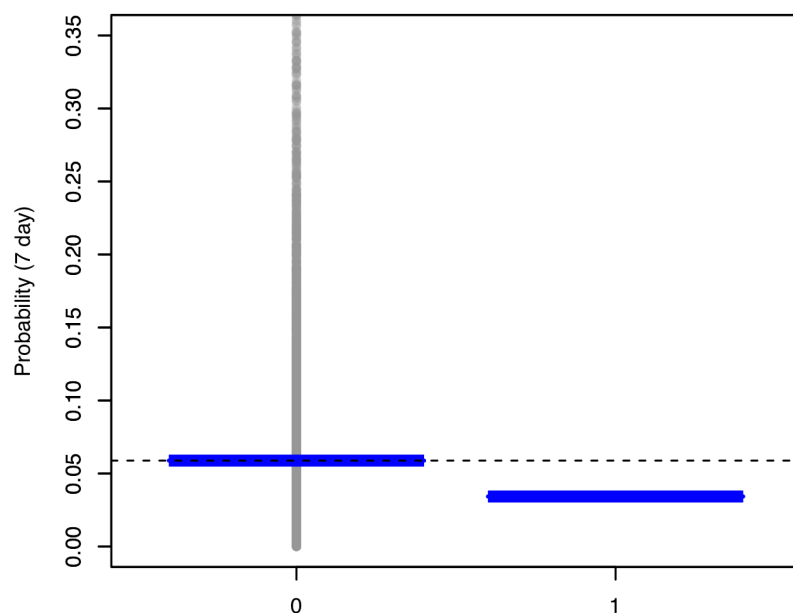
Monoplegia_Other_Paralytic_Syndromes (Pct.Var = 0.0)



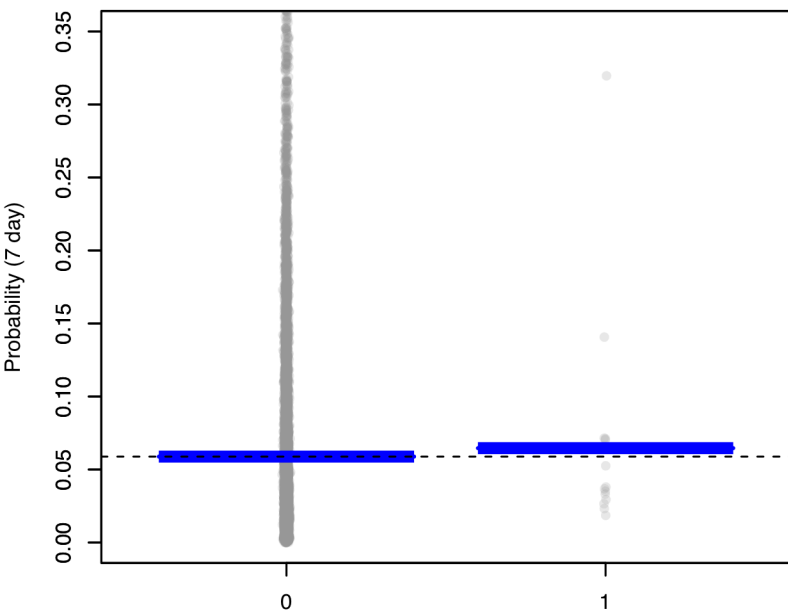
Spinal_Cord_Disorders_Injuries (Pct.Var = 0.0)



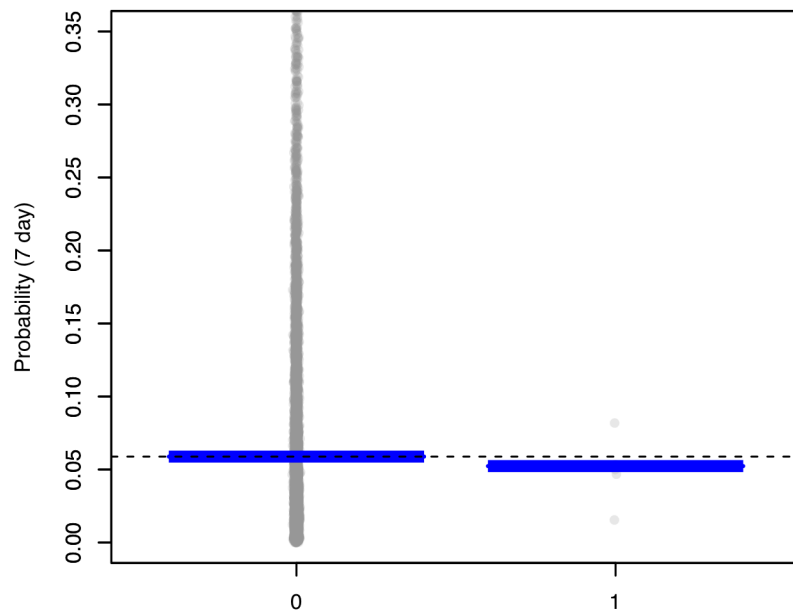
Severe_Skin_Burn_or_Condition (Pct.Var = 0.0)



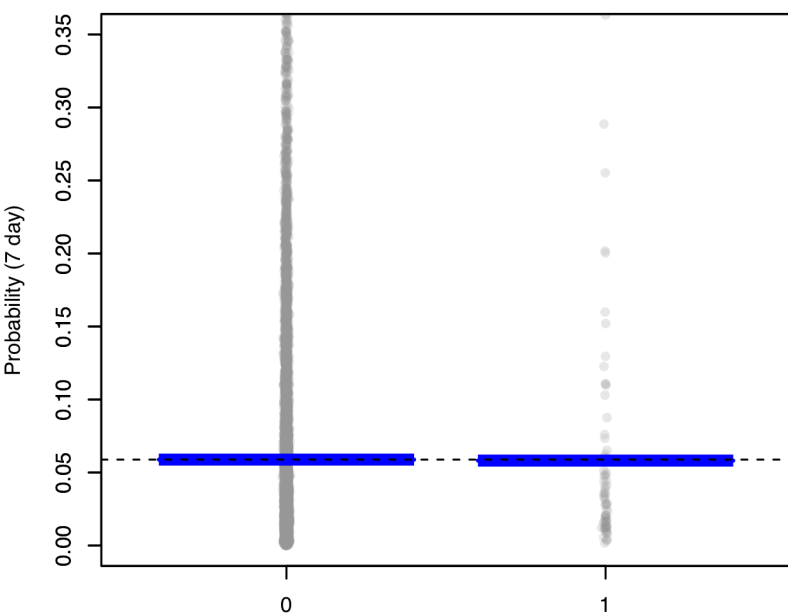
Drug_Alcohol_Psychosis (Pct.Var = 0.0)



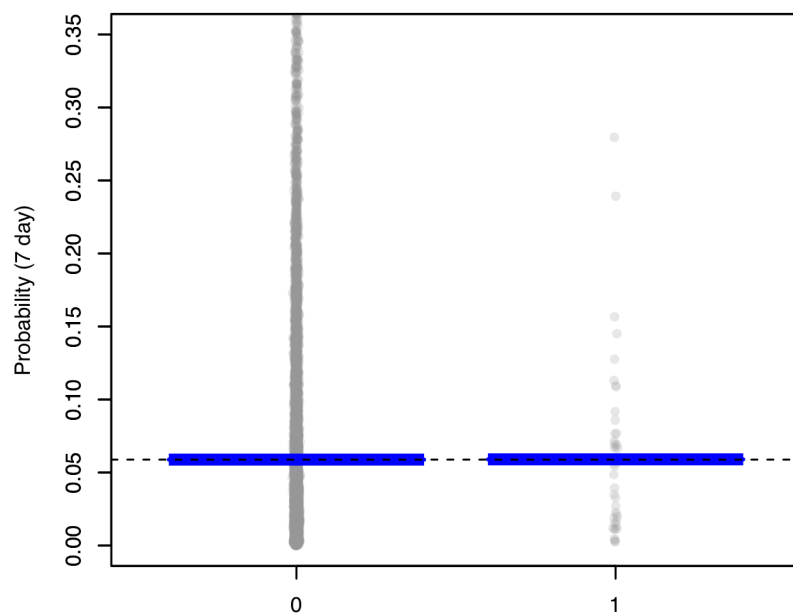
Cystic_Fibrosis (Pct.Var = 0.0)



Angina_Pectoris (Pct.Var = 0.0)



Major_Head_Injury (Pct.Var = 0.0)



Diabetes_with_Acute_Complications (Pct.Var = 0.0)

