

Supplemental Online Content

Rinder P, Marcille T, Sinel-Boucher P, et al. Dynamic projection of medication nonpersistence and nonadherence among patients with early breast cancer. *JAMA Netw Open*. 2024;7(5):e2411909. doi:10.1001/jamanetworkopen.2024.11909

eFigure 1. Labeling of Pharmacy Visits for Persistence

eFigure 2. Model Architecture

eTable 1. Training Parameters for Persistence and Observance Models

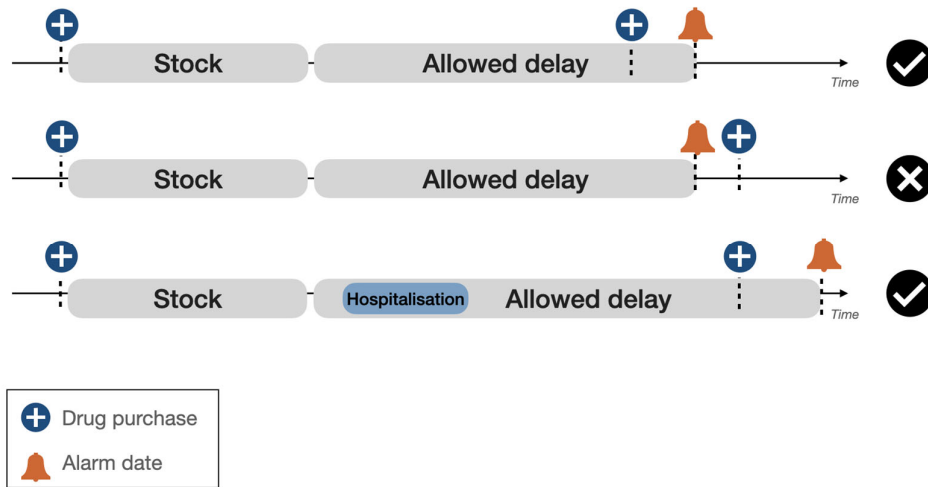
eTable 2. Persistence and Observance Model Parameters

eFigure 3. SHAP Evaluation of the Contribution of Age Over the Decision of the Persistence Model

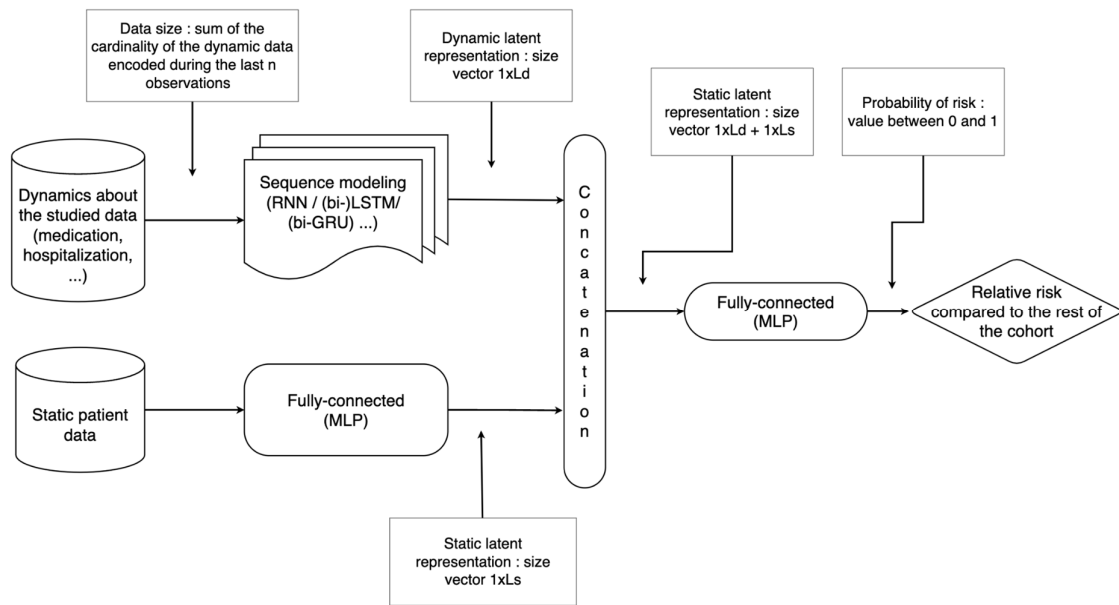
eFigure 4. SHAP Evaluation of the Contribution of Age Over the Decision of the Adherence Model

This supplemental material has been provided by the authors to give readers additional information about their work.

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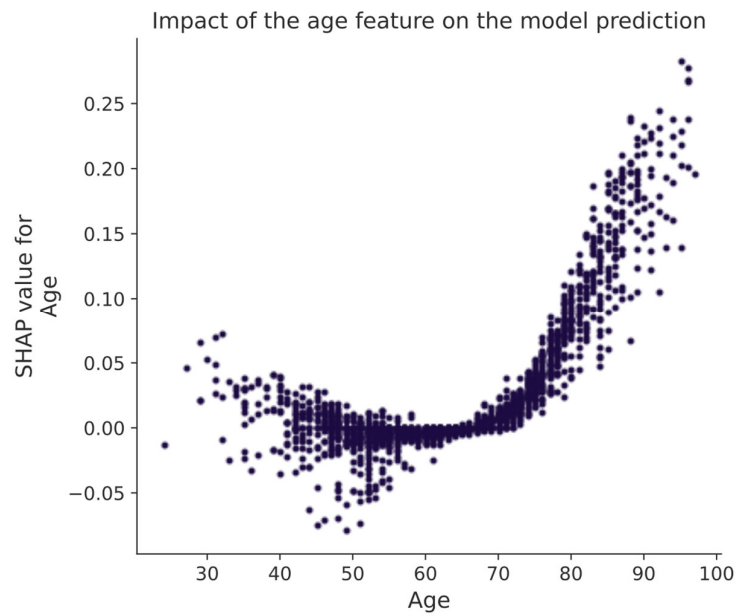
Training parameters	
Epochs	150
Batch size	128
Loss	Binary Cross Entropy (BCE) Loss
Principal metric	Accuracy
GPU use	False
PyTorch Lightning Parameters	
Optimizer	<class 'torch.optim.adam.Adam>
Optimizer learning rate (<i>persistence</i>)	9.9×10^{-5}
Optimizer learning rate (<i>observance</i>)	8.4×10^{-5}
Weight decay	0.001
Optimizer monitor	val_accuracy

eTable 2. Persistence and Observance Model Parameters

Persistence Model	
Static Module	
Number of neurons in first layer	338
Dropout	0.49
Dynamic module	
Number of neurons in first layer	226
Dropout	0.26
Concatenation module	
Number of neurons in first layer	399
Dropout	0.55
Observance Model	
Static Module	
Number of neurons in first layer	464
Dropout	0.60
Dynamic module	
Number of neurons in first layer	215
Dropout	0.23
Concatenation module	
Number of neurons in first layer	161

Dropout	0.17
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eFigure 3. SHAP Evaluation of the Contribution of Age Over the Decision of the Persistence Model



eFigure 4. SHAP Evaluation of the Contribution of Age Over the Decision of the Adherence Model

