

**Supplementary Table 4. Best cut-off values of PHRI in predicting specified clinical outcomes / relapse**

<b>A. For all patients</b>				
<b>For 6-month specified clinical outcomes</b>				
<b>Best value</b>	<b>AUROC (95% CI)</b>	<b>Specificity (95% CI)</b>	<b>Sensitivity (95% CI)</b>	<b>Accuracy (95% CI)</b>
PHRI_max ≤1	0.765 (0.701, 0.830)	0.766 (0.585, 0.828)	0.726 (0.531, 0.843)	0.757 (0.631, 0.806)
PHRI_total ≤1	0.787 (0.721, 0.852)	0.761 (0.594, 0.849)	0.726 (0.565, 0.841)	0.754 (0.622, 0.825)
PHRI_sigmoid ≤0	0.740 (0.673, 0.806)	0.814 (0.603, 0.897)	0.651 (0.516, 0.762)	0.777 (0.606, 0.841)
PHRI_rectum ≤0	0.731 (0.664, 0.797)	0.795 (0.586, 0.868)	0.656 (0.504, 0.770)	0.763 (0.601, 0.819)
<b>For 12-month specified clinical outcomes</b>				
<b>Best value</b>	<b>AUROC (95% CI)</b>	<b>Specificity (95% CI)</b>	<b>Sensitivity (95% CI)</b>	<b>Accuracy (95% CI)</b>
PHRI_max ≤1	0.730 (0.665, 0.795)	0.781 (0.566, 0.845)	0.680 (0.462, 0.777)	0.752 (0.603, 0.794)
PHRI_total ≤1	0.751 (0.685, 0.817)	0.775 (0.569, 0.844)	0.680 (0.502, 0.780)	0.748 (0.595, 0.798)
PHRI_sigmoid ≤1	0.693 (0.628, 0.759)	0.868 (0.669, 0.915)	0.526 (0.320, 0.636)	0.770 (0.634, 0.804)
PHRI_rectum ≤0	0.722 (0.659, 0.785)	0.814 (0.628, 0.888)	0.632 (0.471, 0.731)	0.761 (0.623, 0.814)
<b>B. For patients in ER (MES 0)</b>				
<b>For 6-month specified clinical outcomes</b>				
<b>Best value</b>	<b>AUROC (95% CI)</b>	<b>Specificity (95% CI)</b>	<b>Sensitivity (95% CI)</b>	<b>Accuracy (95% CI)</b>
PHRI_max ≤0	0.575 (0.408, 0.741)	0.894 (0.656, 1.000)	0.250 (0.000, 0.518)	0.862 (0.640, 0.962)
PHRI_total ≤0	0.575 (0.408, 0.741)	0.894 (0.656, 1.000)	0.250 (0.000, 0.518)	0.754 (0.640, 0.962)
PHRI_sigmoid ≤0	0.598 (0.437, 0.759)	0.947 (0.700, 0.993)	0.250 (0.000, 0.625)	0.912 (0.678, 0.956)
PHRI_rectum ≤1	0.531 (0.404, 0.657)	0.967 (0.794, 0.993)	0.125 (0.000, 0.375)	0.925 (0.755, 0.950)
<b>For 12-month specified clinical outcomes</b>				
<b>Best value</b>	<b>AUROC (95% CI)</b>	<b>Specificity (95% CI)</b>	<b>Sensitivity (95% CI)</b>	<b>Accuracy (95% CI)</b>
PHRI_max ≤1	0.517 (0.415, 0.619)	0.939 (0.566, 0.845)	0.143 (0.000, 0.357)	0.863 (0.683, 0.904)
PHRI_total ≤1	0.519 (0.415, 0.622)	0.939 (0.740, 1.000)	0.143 (0.000, 0.286)	0.863 (0.677, 0.918)
PHRI_sigmoid ≤2	0.506 (0.432, 0.581)	0.977 (0.844, 1.000)	0.071 (0.000, 0.214)	0.890 (0.770, 0.911)
PHRI_rectum ≤1	0.539 (0.440, 0.639)	0.970 (0.780, 0.992)	0.143 (0.000, 0.286)	0.891 (0.725, 0.912)