

Supplemental Table 1: Summary and comparison of different criteria for risk classification in stage I endometrial cancer. Abbreviations: HIR = high-intermediate risk, LVSI+ = positive lymphovascular space invasion, MMI = myometrial invasion, OS = overall survival, RT = radiation therapy

	Proposed unfavorable risk criteria	GOG-99 HIR criteria	PORTEC-1 HIR criteria
Risk factors	Grade 2-3 disease >50% MMI LVSI+ Age \geq 70	Grade 2-3 disease >2/3 MMI LVSI+	Grade 3 disease >50% MMI Age >60
Criteria	\geq 2 of 4 risk factors	Any age with 3 risk factors Age \geq 50, \geq 2 risk factors Age \geq 70, \geq 1 risk factor	\geq 2 of 3 risk factors
Number (%) of stage I patients (n=117,272)	25,691 (21.9%)	25,066 (21.4%)	19,779 (16.9%)
C-index	0.673	0.672	0.655

Supplemental table 2. Multivariable Cox proportional hazards model in stage I patients stratified by the proposed unfavorable risk definition.

Factors	<i>Unfavorable risk</i>		<i>Favorable risk</i>	
	Hazard of death (95% Confidence)	P Value	Hazard of death (95% Confidence)	P Value
Age				
< 70 years	Reference		Reference	
≥ 70 years	2.26 (2.01-2.54)	<0.001*	2.71 (2.44-3.00)	<0.001*
Charlson-Deyo Score				
0	Reference		Reference	
1	1.33 (1.21-1.45)	<0.001*	1.41 (1.30-1.53)	<0.001*
≥ 2	1.80 (1.58-2.05)	<0.001*	2.72 (2.44-3.04)	<0.001*
Race				
Non-Hispanic White	Reference		Reference	
Other	1.18 (1.07-1.31)	0.001*	1.06 (0.96-1.16)	0.258
Unknown	1.04 (0.70-1.54)	0.847	1.02 (0.70-1.49)	0.915
Insurance Status				
Government	Reference		Reference	
Private	0.78 (0.69-0.87)	<0.001*	0.53 (0.49-0.58)	<0.001*
Uninsured	0.73 (0.51-1.03)	0.070	0.77 (0.63-0.93)	0.008*
Unknown	0.87 (0.58-1.30)	0.500	0.57 (0.38-0.83)	0.004*
Facility Type				
Academic	Reference		Reference	
Community	1.08 (1.00-1.17)	0.045*	1.03 (0.96-1.11)	0.362
Lymphovascular invasion				
No	Reference		Reference	
Yes	1.56 (1.43-1.70)	<0.001*	1.52 (1.14-2.03)	0.005*
FIGO stage				
Stage IA	Reference		Reference	
Stage IB	1.56 (1.41-1.73)	<0.001*	1.66 (1.40-1.97)	<0.001*
Histologic Grade				
Grade 1	Reference		Reference	
Grade 2	1.46 (1.29-1.65)	<0.001*	1.52 (1.37-1.69)	<0.001*
Grade 3	2.91 (2.49-3.40)	<0.001*	3.16 (2.78-3.58)	<0.001*
Lymph node dissection				
No	Reference		Reference	
Yes	0.59 (0.54-0.64)	<0.001*	0.81 (0.75-0.87)	<0.001*
Radiation therapy received				
No	Reference		Reference	
Yes	0.74 (0.68-0.80)	<0.001*	1.02 (0.91-1.15)	0.710
P_{interaction} between radiation therapy and unfavorable risk classification	<0.001*			