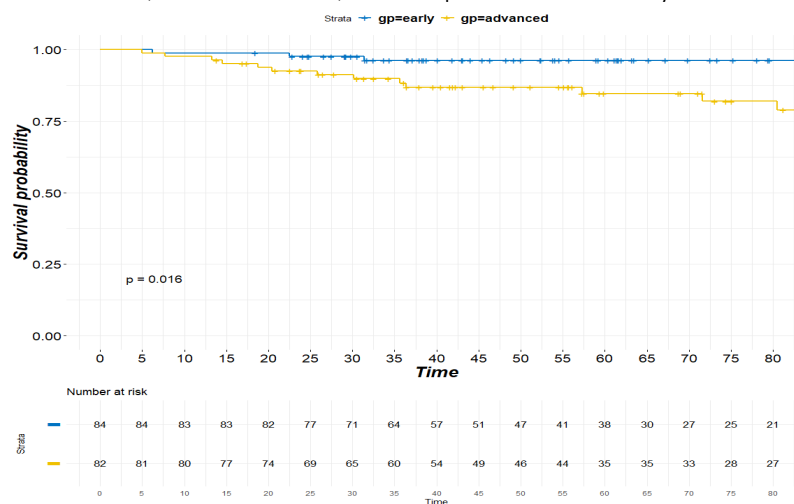


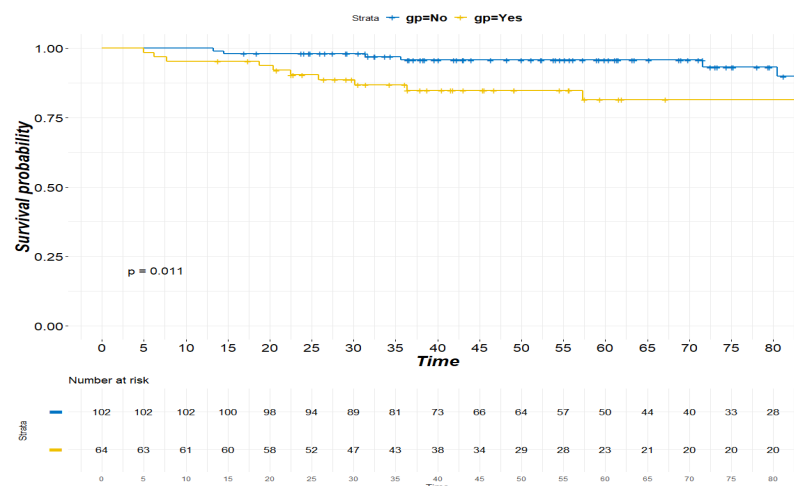
**Supplementary Table 1.** Multivariate Cox with time-dependent covariates with radiotherapy (overall survival)

Characteristic	HR <sup>1</sup>	95% CI <sup>1</sup>	p-value
<b>age_category</b>			
10 - 15	—	—	
>15	1.41	0.54, 3.68	0.5
<b>B.symptoms</b>			
No	—	—	
Yes	2.65	0.92, 7.59	0.070
<b>Early/Advanced_stage</b>			
early	—	—	
advanced	2.78	0.83, 9.32	0.10
<b>PET CT (tdc)</b>			
tt(tpet)TRUE	2.49	0.52, 12.0	0.3
<b>omit_radio</b>			
Not omitted	—	—	
Omitted	0.77	0.27, 2.20	0.2 <sup>2</sup>

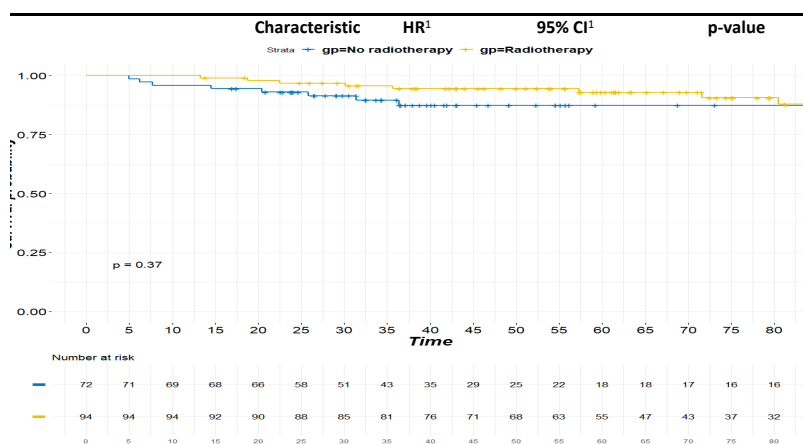
<sup>1</sup>HR = Hazard Ratio, CI = Confidence Interval, <sup>2</sup>one-sided p-value for non-inferiority



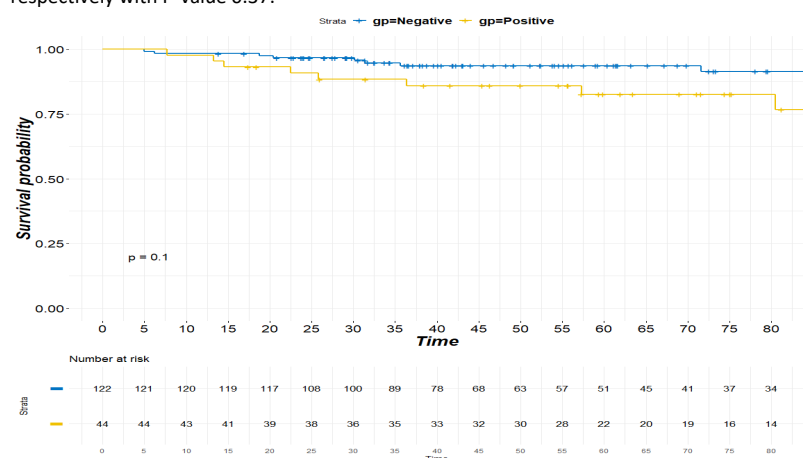
**Supplementary Figure 1:** The three-year overall survival among the group of patients who are presented initially with early stage and who are presented with advanced stage is 96%, and 88% respectively, and the 5 years of overall survival for them are 96%, and 85% respectively with P-value 0.016.



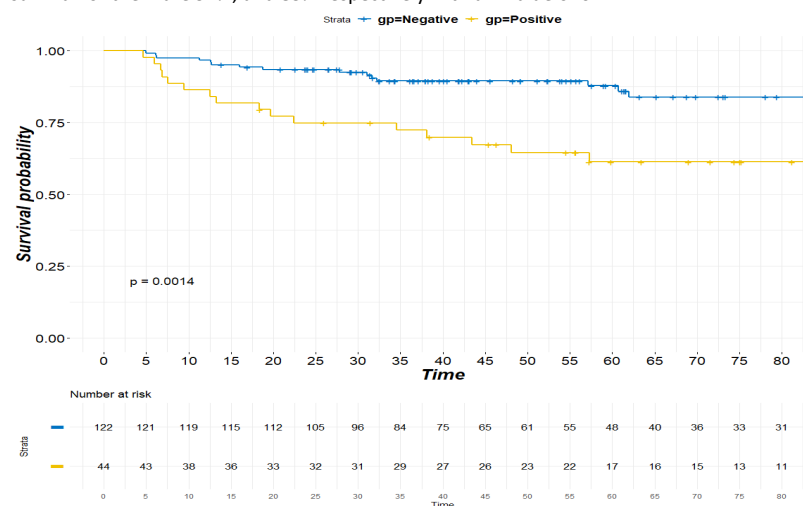
**Supplementary Figure 2:** The three-year overall survival for the patients who are presented with positive B symptoms, and those who are presented without B symptoms are 87%, and 96% respectively, and the 5 years of overall survival for them are 81%, 96% respectively with P-value 0.011.



**Supplementary Figure 3.** The three-year overall survival among the patients who did not receive radiotherapy and who received radiotherapy post their chemotherapy protocol are 90%, and 94% respectively, and the 5 years overall survival for them are 87%, and 93% respectively with P-value 0.37.



**Supplementary Figure 4.** The three-year overall survival among good responders versus poor responders detected by interim PET CT is 94%, and 88% respectively, and the 5 years of overall survival for them are 94%, and 83% respectively with a P-value of 0.1.



**Supplementary Figure 5.** The three-year event-free survival for patients who are presented with positive B symptoms, and who are presented without B symptoms is 73%, and 93% respectively, and 5 years of event-free survival for them are 64%, and 90% respectively with significant P- value 0.00017.