

*Joint Model 1:*  
Target Lesion  
Sum of LD and OS

*Joint Model 2:*  
Time to Non-target  
Lesion PD and OS

*Joint Model 3:*  
Time to New Lesion  
PD and OS

*Model 4:*  
Marginal model of  
overall survival

OS Prediction 1

OS Prediction 2

OS Prediction 3

OS Prediction 4

$w_1$

$w_2$

$w_3$

$w_4$

Final OS Prediction by Bayesian Model Average