

## Supplementary Materials

### **Application of artificial intelligence incorporating PI-RADS v2.1 to prevent unnecessary prostate biopsies**

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**Supplementary Table 1.** Models' parameters. Each model was parameterized using different parameter settings with a 5-fold cross validation.

Parameter	Parameter space	Chosen Value
Epoch	[1 1000]	500
Batch	{64, 32 ,16, 8}	32
Learning Rate	{0.001}	0.001
K-Fold	5	5

**Supplementary Figure 1** Dichotomous distribution of PIRADS interpreted by AI system.

