

Supplementary Table 1. Properties of explanatory variables in the three risk groups respectively.

| Explanatory variables | Risk | Median (25%;75%) | Interquartile range | Minimum | Maximum | Skewness (Std. Error) | Kurtosis (Std. Error) |
|---|--------------|------------------------|---------------------|---------|---------|-----------------------|-----------------------|
| Delivered dose | low | 74.00 (74.00;87.00) | 4.00 | 74.00 | 81.00 | 1.262 (0.403) | 0.348 (0.788) |
| | intermediate | 78.00 (78.00;78.00) | 0.00 | 73.20 | 81.00 | -0.517 (0.414) | 3.435 (0.809) |
| | high | 81.00 (74.40;81.00) | 3.60 | 73.50 | 81.00 | -1.002 (0.414) | 0.179 (0.809) |
| Plan accuracy (%) | low | 98.78 (97.87;99.25) | 1.38 | 96.05 | 100.00 | -0.784 (0.403) | 0.105 (0.788) |
| | intermediate | 98.57 (97.87;99.32) | 1.44 | 94.24 | 99.99 | -1.438 (0.414) | 2.124 (0.809) |
| | high | 97.95 (96.94;99.03) | 2.12 | 92.12 | 99.50 | -1.606 (0.414) | 3.087 (0.809) |
| ADT duration (months) | low | 6.0 (2.25;8.5) | 6 | 0 | 60 | 3.239 (0.403) | 12.711 (0.788) |
| | intermediate | 22.0 (6;7.5) | 30 | 6 | 60 | 0.685 (0.4149) | -0.735 (0.809) |
| | high | 36.0 (24.0;57.0) | 33 | 6 | 120 | 1.376 (0.4149) | 4.125 (0.809) |
| Time to reach PSA nadir (months) | low | 10.00 (5.00;26.00) | 21 | 1 | 48 | 0.845 (0.403) | -0.284 (0.788) |
| | intermediate | 13.00 (7.25;15.00) | 8 | 1 | 35 | 0.724 (0.414) | 1.358 (0.809) |
| | high | 14.00 (8.00;18.00) | 10 | 2 | 28 | 0.169 (0.412) | -0.779 (0.821) |

Supplementary Table 2. Model summary of binary logistic regression (backward stepwise - likelihood ratio)

| Model summary | | | |
|----------------------|---|-------------|----------------------------|
| Model | Chi-square | Sig. | Nagelkerke R square |
| 1 | 7.492 | 0.278 | 0.146 |
| 2 | 0.000 | 0.995 | 0.146 |
| 3 | -0.145 | 0.703 | 0.143 |
| 4 | -0.300 | 0.584 | 0.138 |
| 5 | -0.771 | 0.380 | 0.123 |
| Step 1 | Variables: (Constant), Delivered dose, Plan accuracy, Risk, ADT duration, Time to reach PSA nadir | | |
| Step 2 | Variables: (Constant), Delivered dose, Plan accuracy, Risk, ADT duration | | |
| Step 3 | Variables: (Constant), Plan accuracy, Risk, ADT duration | | |
| Step 4 | Variables: (Constant), Plan accuracy, Risk | | |
| Step 5 | Variables: (Constant), Risk | | |

Supplementary Table 3. Properties of explanatory variables in the four risk groups reclassified by the ISUP recommendations

| Explanatory variables | Risk | Median | Interquartile range | Minimum | Maximum | Skewness (Std. Error) | Kurtosis (Std. Error) |
|---|----------------|------------------------|---------------------|---------|---------|-----------------------|-----------------------|
| Delivered dose | low | 74.00 (74.00;87.00) | 4.00 | 74.00 | 81.00 | 1.262 (0.403) | 0.348 (0.788) |
| | intermediate 1 | 78.00 (78.00;78.00) | 0.00 | 73.20 | 81.00 | -0.592 (0.472) | 3.227 (0.918) |
| | intermediate 2 | 78.00 (77.00;78.00) | 1.00 | 76.00 | 81.00 | 0.872 (0.717) | 2.589 (1.400) |
| | high | 81.00 (74.40;81.00) | 3.60 | 73.50 | 81.00 | -1.002 (0.414) | 0.179 (0.809) |
| Plan accuracy (%) | low | 98.78 (97.87;99.25) | 1.38 | 96.05 | 100.00 | -0.784 (0.403) | 0.105 (0.788) |
| | intermediate 1 | 98.64 (97.99;99.32) | 1.33 | 95.34 | 99.87 | -1.252 (0.472) | 1.26 (0.918) |
| | intermediate 2 | 98.51 (97.35;99.44) | 2.07 | 94.24 | 99.99 | -1.370 (0.717) | 2.601 (1.400) |
| | high | 97.95 (96.94;99.03) | 2.12 | 92.12 | 99.50 | -1.606 (0.414) | 3.087 (0.809) |
| ADT duration (months) | low | 6.0 (2.25;8.5) | 6 | 0 | 60 | 3.239 (0.403) | 12.711 (0.788) |
| | intermediate 1 | 19.5 (6.0;36.0) | 30 | 6 | 60 | 0.658 (0.472) | -0.596 (0.918) |
| | intermediate 2 | 30.0 (12.0;60.0) | 48 | 6 | 60 | -0.015 (0.717) | -2.220 (1.400) |
| | high | 36.0 (24.0;57.0) | 33 | 6 | 120 | 1.376 (0.4149) | 4.125 (0.809) |
| Time to reach PSA nadir (months) | low | 10.0 (5.0;26.0) | 21 | 1 | 48 | 0.845 (0.403) | -0.284 (0.788) |
| | intermediate 1 | 13.5 (5.0;26.0) | 8 | 2 | 35 | 0.852 (0.472) | 1.813 (0.918) |
| | intermediate 2 | 13.0 (4.5;16.0) | 12 | 1 | 24 | 0.034 (0.717) | -0.301 (1.400) |
| | high | 14.0 (8.0;18.0) | 10 | 2 | 28 | 0.169 (0.412) | -0.779 (0.821) |