1–Month Prediction R² Heatmap by Time Window and Model

| Model | pre_3d | pre_3d_7d | pre_7d_all | pre_all | post_1w | post_7d_30d | post_day23_30 | post_day27_30 |
|---|---|---|---|---|---|---|---|---|
| XGBoost | 0.724 | 0.338 | 0.794 | 0.742 | 0.714 | 0.655 | 0.531 | 0.725 |
| Random Forest | 0.695 | 0.478 | 0.701 | 0.726 | 0.648 | 0.669 | 0.548 | 0.666 |
| Linear Regression | 0.757 | 0.506 | 0.716 | 0.679 | 0.661 | 0.792 | 0.763 | 0.693 |
| LASSO | 0.716 | 0.455 | 0.673 | 0.666 | 0.594 | 0.714 | 0.743 | 0.627 |
| Elastic Net | 0.761 | 0.51 | 0.7 | 0.674 | 0.64 | 0.743 | 0.642 | 0.735 |

Time Windows Relative to Surgery