

L5/Iliac ATEs

Initial Patients: 372

Comparability constraints

```
data_ %<>%  
  .['Surgical Approach'=='Posterior'] %>%  
  .['Pelvic Tilt' < 35] %>%  
  .['Ideal GT' < 21] %>%  
  .['RLL' > -42]
```

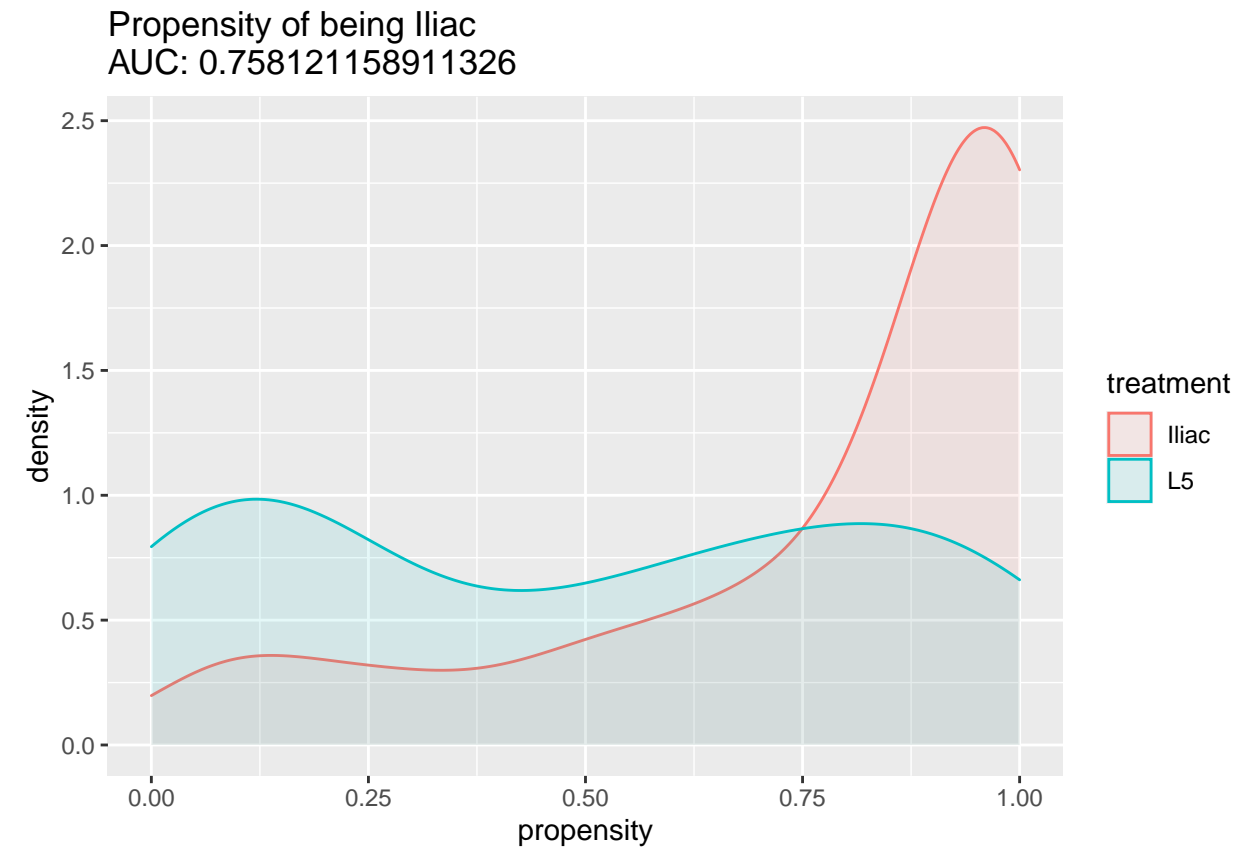
```
      type N  
1: Iliac 73  
2:    L5 35
```

Confounding Variables

- Age
- BMI_First Visit
- ASA classification
- Prior Spine Surgery
- Pelvic Tilt
- Interbody Fusion
- essg_category
- Number of Posterior Instrumented Levels
- Decompression
- Osteotomy
- 3CO
- Ideal GT
- RLL
- Thoracolumbar L2-T10

Propensity Score

Boosting



Propensity threshold 0

```
type N
1: Iliac 67
2: L5 34
```

Average Treatment Effects

Outcome: 5Y. ODI - Score (%)
RMSE: 2.42348598739085
Relative RMSE: 10.9 %
ATE (Iliac - L5): 8.69920091727112
ATE (std Error) 3.28261409465537
t.test p-value 0.00973966668547889

Outcome: 5Y. SRS22 - SRS Subtotal score
RMSE: 0.110514410555023
Relative RMSE: 12.1 %
ATE (Iliac - L5): -0.149466510896605

ATE (std Error) 0.146560651844534
t.test p-value 0.310884726285428

Outcome: 5Y. SF36 - MCS
RMSE: 1.43241511241728
Relative RMSE: 11.9 %
ATE (Iliac - L5): -3.67823903560638
ATE (std Error) 1.64686166495585
t.test p-value 0.0283456338353173

Outcome: 5Y. SF36 - PCS
RMSE: 1.15428755065249
Relative RMSE: 11.1 %
ATE (Iliac - L5): -7.86848343610764
ATE (std Error) 1.25549478915009
t.test p-value 1.80906886492141e-08

Outcome: major_complications
RMSE: 0.246053951221706
Relative RMSE: 13.2 %
ATE (Iliac - L5): 0.0938399905143717
ATE (std Error) 0.358087962275288
t.test p-value 0.794080371924084

Outcome: reiqs
RMSE: 0.21020057828683
Relative RMSE: 12 %
ATE (Iliac - L5): 0.561537197924907
ATE (std Error) 0.333127058743438
t.test p-value 0.0964462545632714