

FENESTRATED SCREWS EXPLORATION

Selected Variables

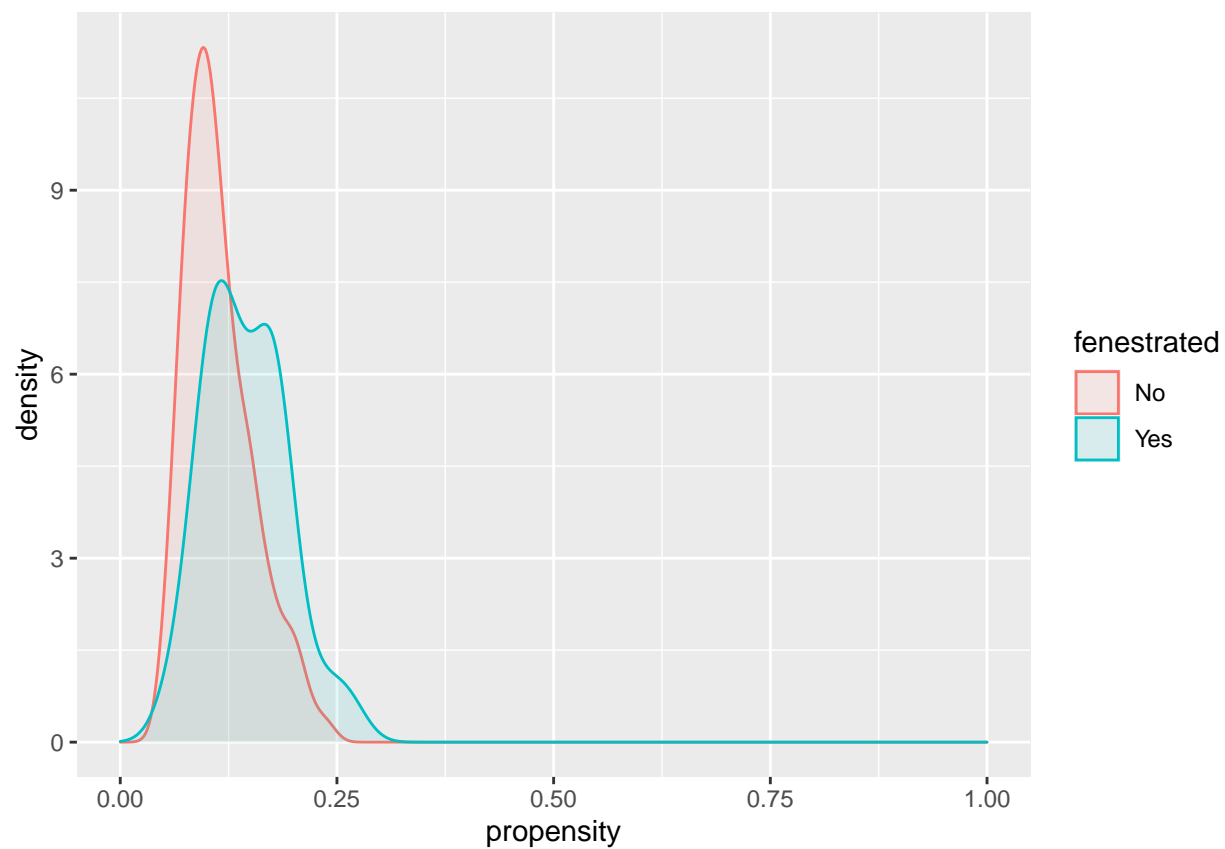
covariates:

- Age
- Osteoporosis / osteopenia
- Global Tilt
- ODI - Score (%)_First Visit
- Pelvic Fixation
- C03
- ASA classification
- fenestrated

Propensity Scores Common Support

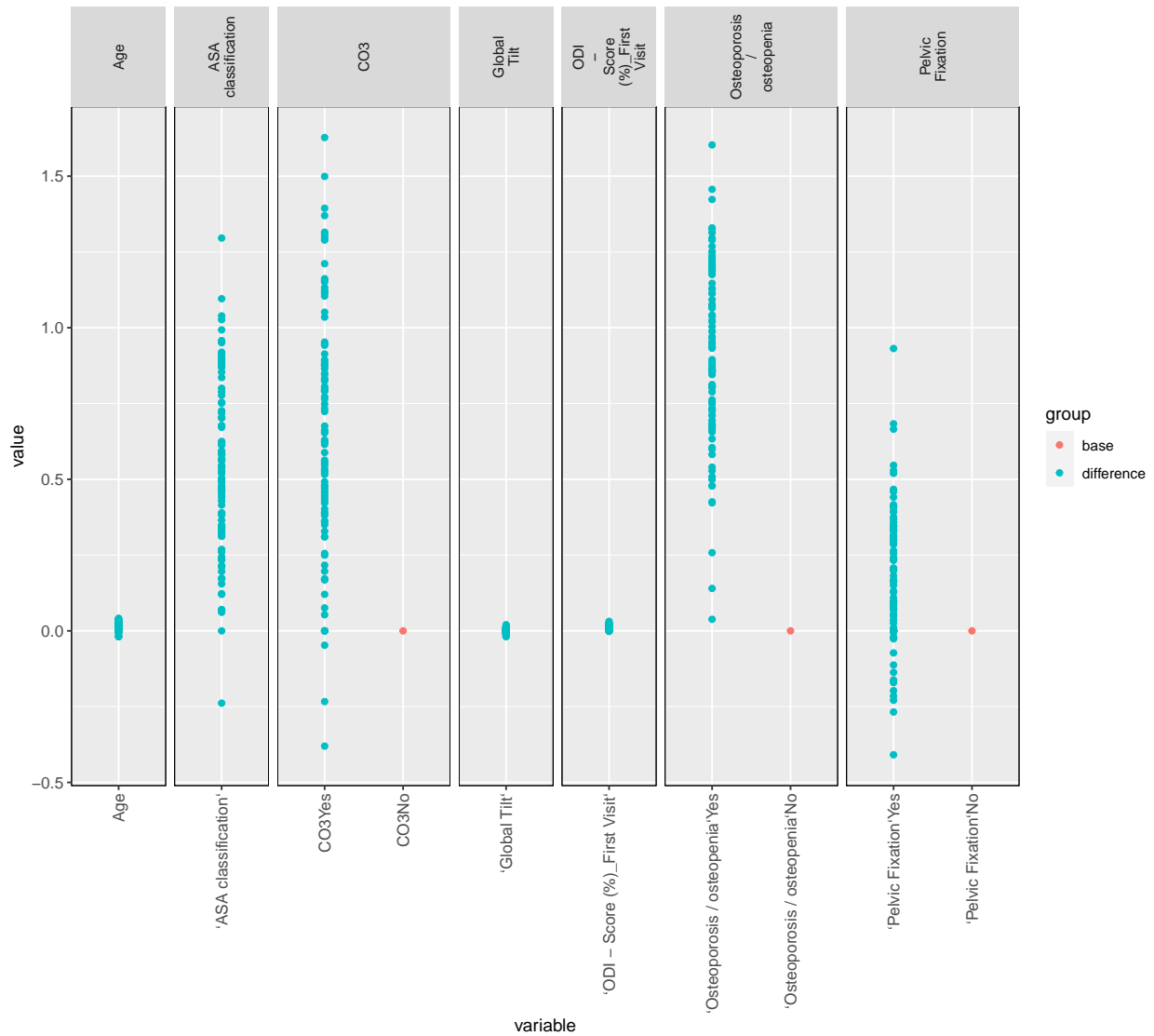
Model Stats

- Treatment proportion: 0.12
- Model Type: elastic_net
- Accuracy: 0.8822018
- Params: alpha: 0.1 lambda: 0.0484856



Model Coefficients

Bootstrapping replicas: 100



##		variable	low_ci	median	up_ci	t_value	selected
## 1:		(Intercept)	-7.368	-5.189	-3.069	4.444	*
## 2:		Age	-0.014	0.011	0.036	0.898	
## 3:		CO3No	0.000	0.000	0.000	NA	
## 4:		CO3Yes	-0.025	0.641	1.383	1.630	
## 5:		'ASA classification'	0.065	0.529	1.033	1.901	*
## 6:		'Global Tilt'	-0.014	0.000	0.013	0.043	
## 7:		'ODI - Score (%)_First Visit'	0.000	0.010	0.024	1.488	
## 8:		'Osteoporosis / osteopenia'No	0.000	0.000	0.000	NA	
## 9:		'Osteoporosis / osteopenia'Yes	0.336	0.882	1.379	3.139	*
## 10:		'Pelvic Fixation'No	0.000	0.000	0.000	NA	
## 11:		'Pelvic Fixation'Yes	-0.222	0.129	0.609	0.731	

Average Treatment Effects - Reinterventions

Outcome: reinterventions_n

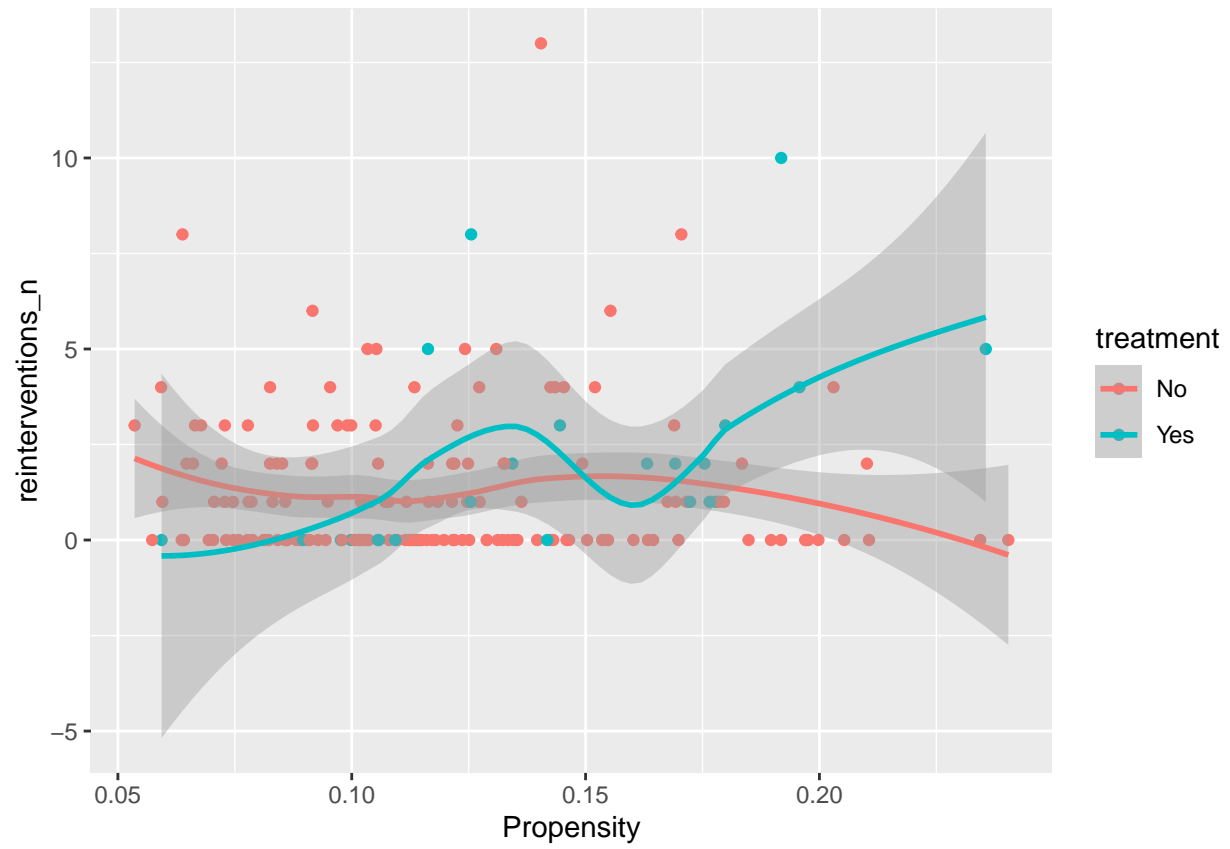
Distribution:
0% 25% 50% 75% 100%
0 0 0 2 13

Model Type Y: boosting
RMSE: 2.20604679902546
Params: nrounds: 50.0
max_depth: 2
eta: 0.3
gamma: 0.0
colsample_bytree: 0.6
min_child_weight: 1.0
subsample: 0.5

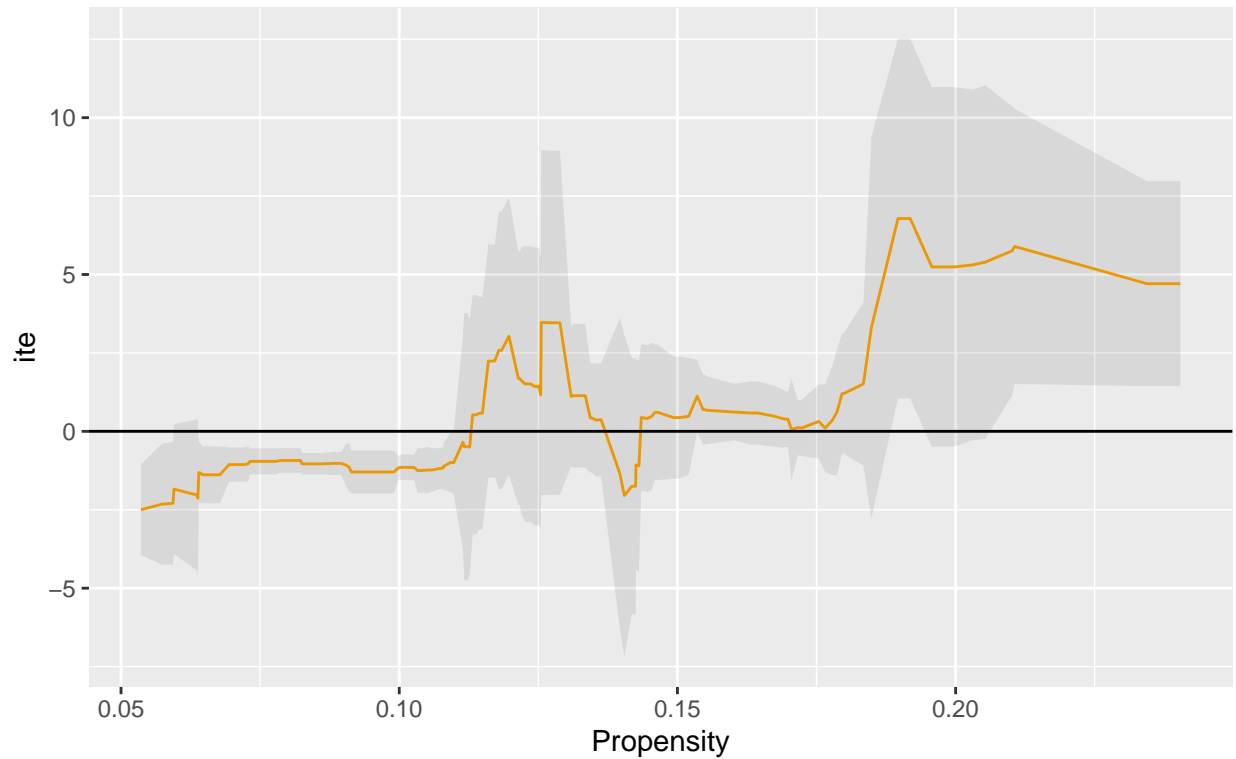
Model Type No: boosting
RMSE: 1.91103510239684
Params: nrounds: 50.0
max_depth: 1
eta: 0.3
gamma: 0.0
colsample_bytree: 0.6
min_child_weight: 1.0
subsample: 1.0

ATE (Yes-No): 0.335 (Std.Error: 0.403)
Observational differences in treatment 0.814 (Yes-No)

	treatment	outcome
1:	No	1.269231
2:	Yes	2.083333



Individual Treatment effect by propensity reinterventions_n



Outcome: has_reintervention

Distribution:

Proportion

0.338403

Model Type Y: boosting

Accuracy: 0.747619047619048

Params: nrounds: 50.0

max_depth: 5

eta: 0.4

gamma: 0.0

colsample_bytree: 0.6

min_child_weight: 1.0

subsample: 0.5

Model Type No: boosting

Accuracy: 0.65513413506013

Params: nrounds: 50.0

max_depth: 1

eta: 0.3

gamma: 0.0

colsample_bytree: 0.8

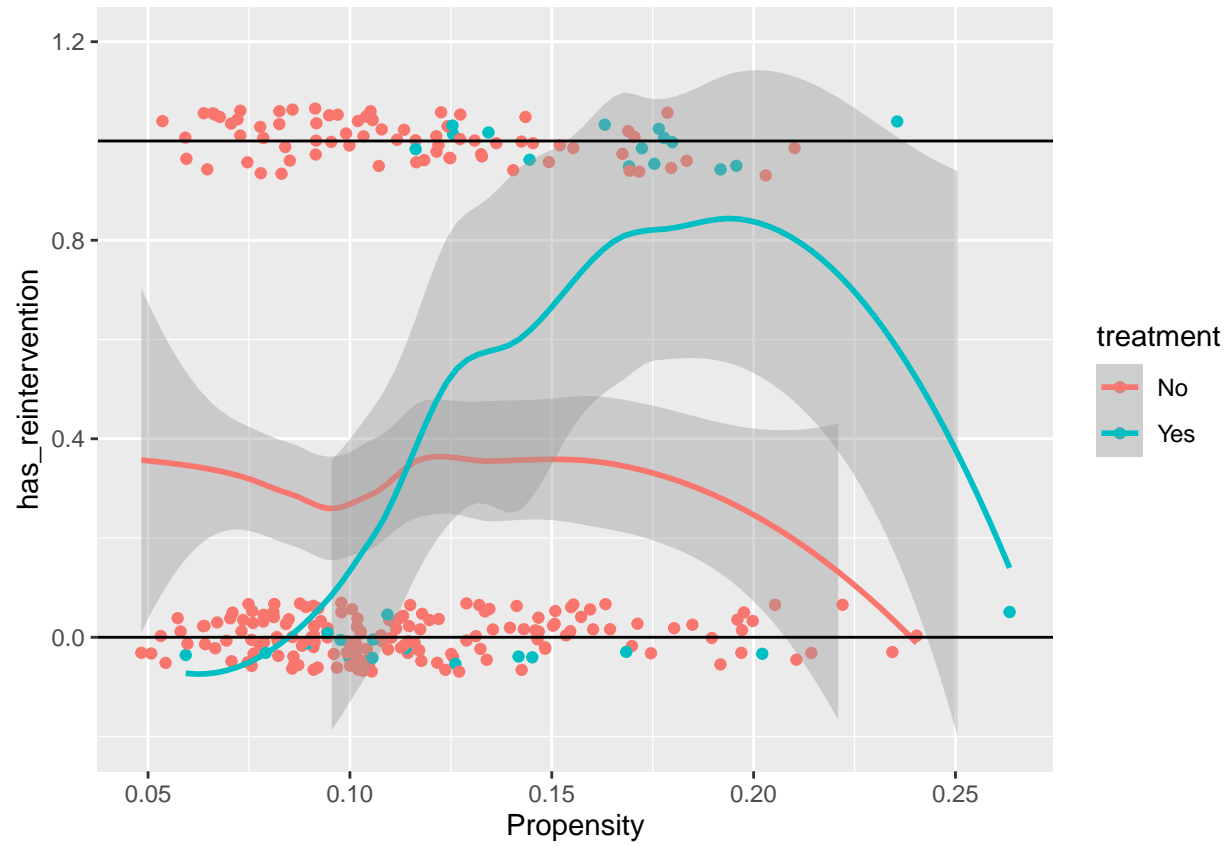
min_child_weight: 1.0

subsample: 0.7142857

ATE (Yes-No): 0.001 (Std.Error: 0.055)

Observational differences in treatment 0.165 (Yes-No)

```
treatment  outcome
1:         No 0.3189655
2:         Yes 0.4838710
```



Individual Treatment effect by propensity
has_reintervention

