Balance Tests in Papers

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```
# Number of papers by journal
group_by(sample, Journal) %>%
summarize(n = n()) %>%
kable()
```

Journal	n
AJPS	75
APSR	45
JOP	30

```
# Number of papers by experimental design
n_designs <- group_by(sample, `Experimental Design`) %>%
summarize(n = n())
kable(n_designs)
```

Experimental Design	n
Natural experiment	42
Randomized experiment	84
Regression discontinuity	24

```
# Proportion of papers that report balance test
group_by(sample, `Balance tests`) %>%
summarize(prop = n()/150) %>%
kable(digits = 2)
```

Balance tests	prop
No	0.48
Yes	0.52

```
# Proportion of papers by experimental design that report balance test
group_by(sample, `Experimental Design`,  `Balance tests`) %>%
summarize(n1 = n())  %>%
right_join(n_designs) %>%
mutate(prop = n1/n ) %>%
select(`Experimental Design`,  `Balance tests`, prop) %>%
spread(`Balance tests`, prop)  %>%
kable(digits = 2)
```

```
## `summarise()` has grouped output by 'Experimental Design'. You can override using the `.groups` argu
## Joining, by = "Experimental Design"
```

Experimental Design	No	Yes
Natural experiment	0.62	0.38
Randomized experiment	0.44	0.56
Regression discontinuity	0.38	0.62

```
# Among those that report balance tests, the proportion that use some version of an omnibus test rather

balance_tests <- sample %>% filter (`Balance tests` == "Yes")
n_balance <- nrow(balance_tests)
group_by(balance_tests, `p-value`) %>%
summarize(prop = n()/n_balance ) %>%
kable(digits = 2)
```

p-value	prop
Both	0.06
covariate-by-covariate	0.56
Omnibus	0.19
NA	0.18

```
#  Papers that discuss prognostic importance of covariates
group_by(balance_tests, `is covariate prognostic`) %>%
summarize(prop = n()/n_balance ) %>%
kable(digits = 2)
```

is covariate prognostic	prop
No	0.87
Yes	0.13

```
# Papers that include the lagged DV in the balance test
group_by(balance_tests, `lagged DV`) %>%
summarize(prop = n()/n_balance) %>%
kable(digits = 2)
```

lagged DV	prop
No	0.82
Yes	0.18