Overall Results

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Meta-analysis

Calculating effect sizes

Here, we calculated our effect sizes (log response ratio lnRR) for our complete data set (all traits).

Meta-analysis overall results (lnRR)

1. Calculating effect sizes (Done)

We calculated our effect sizes (log response ratio lnRR) for our complete data set (all traits).

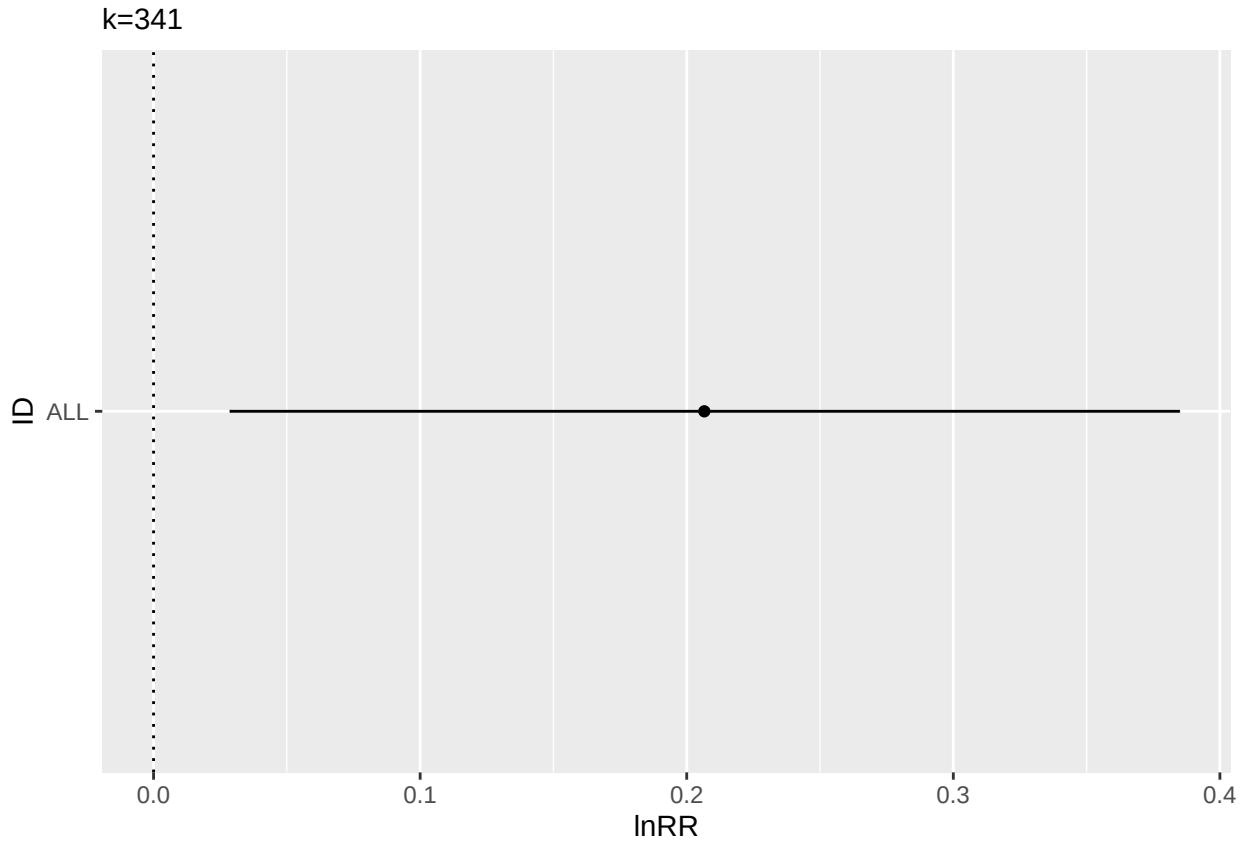
2. Deciding random effects (Done)

We used AIC values to decide which random effects to use. Combining "Trait", "Paper_ID" and "Cohort_ID" yielded the lowest AIC values.

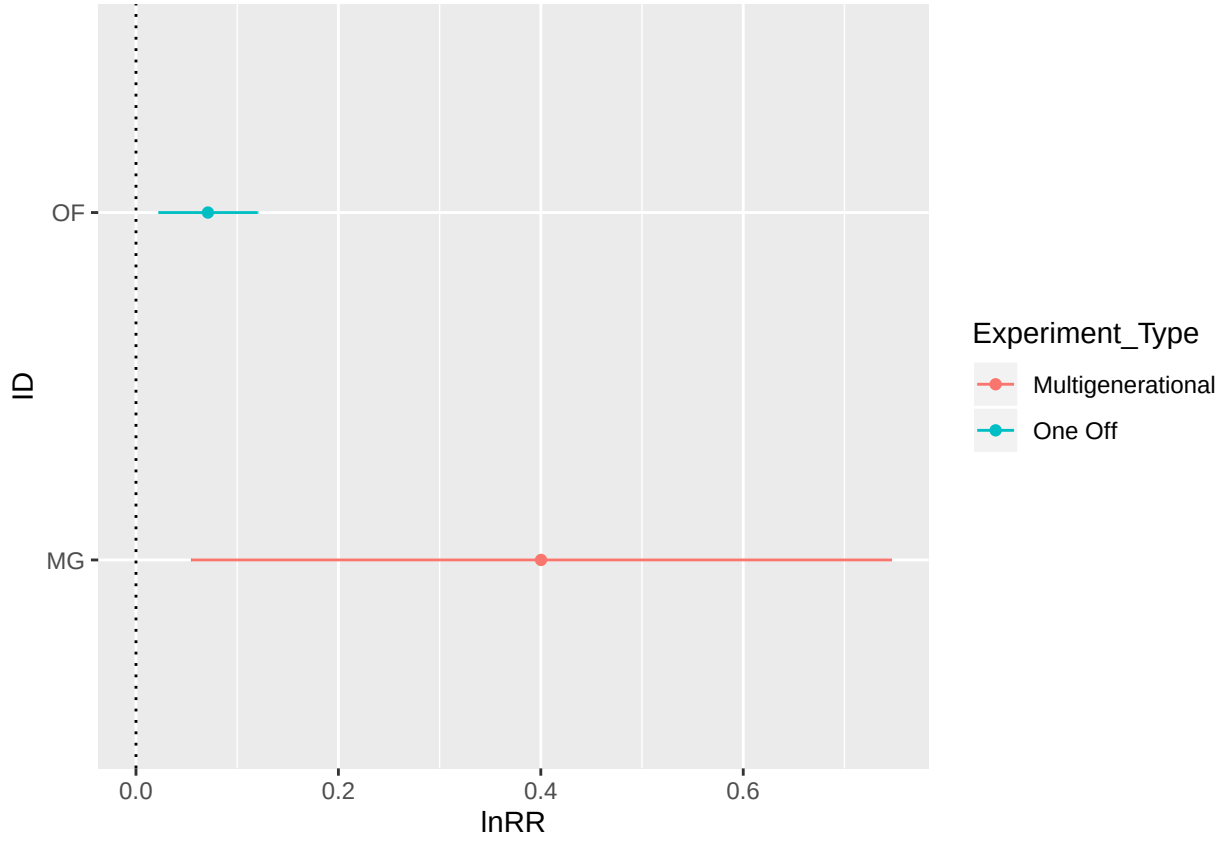
3. Running meta-analysis (overall, and then overall split by exposure type)

I conducted meta-analysis, first on the complete dataset, and then on subsetted data (split by one off and multigenerational exposure)

Plotting overall results

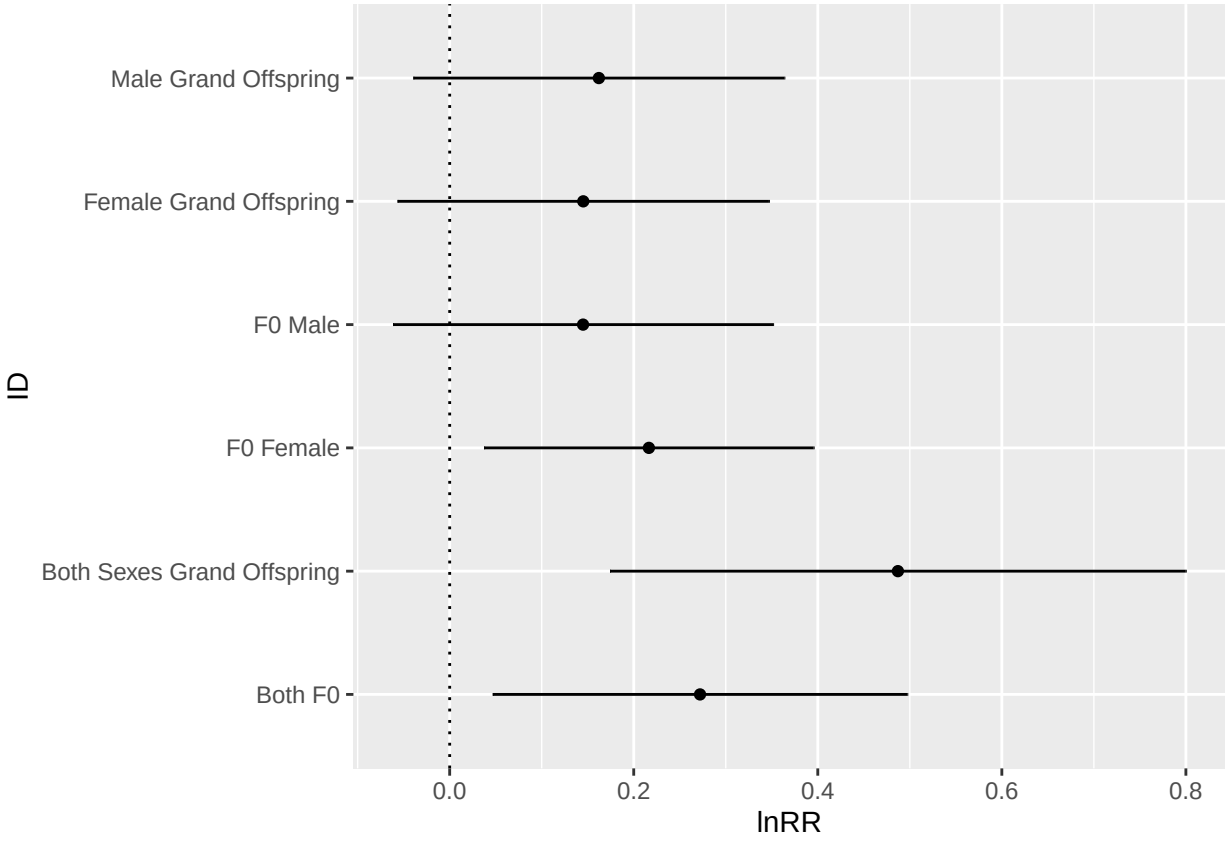


Plotting overall results when split by multigenerational and one off exposure



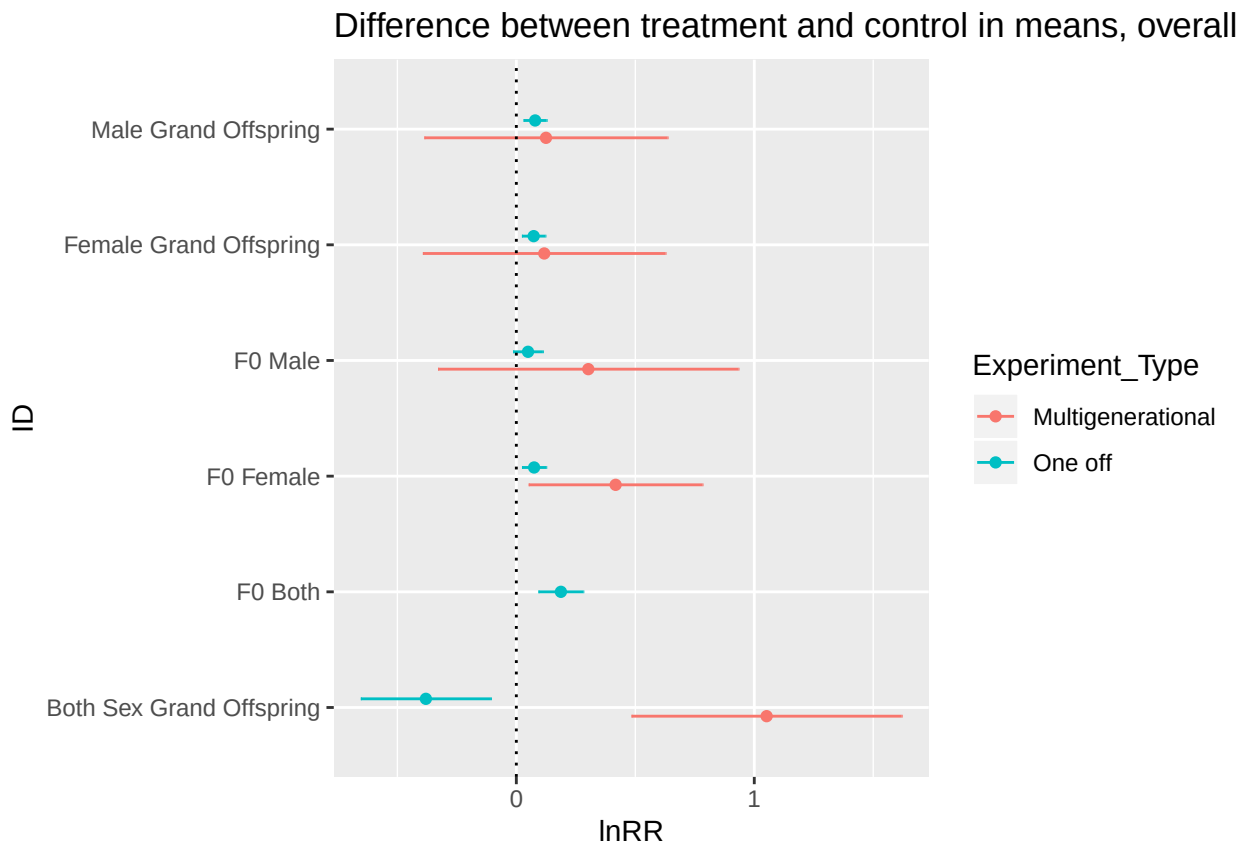
Running meta-analysis (Overall with moderators, and then overall split by exposure type with moderators)

Plotting overall results with moderators



Plotting Overall results with moderators (split by exposure type)

```
## # A tibble: 11 x 5
##    ID                        Experiment_Type      lnRR   ci.lb  ci.ub
##    <chr>                     <chr>               <dbl>   <dbl>  <dbl>
##  1 F0 Female                 Multigenerational  0.417   0.0521  0.783
##  2 F0 Male                   Multigenerational  0.302  -0.329   0.934
##  3 F0 Both                   One off            0.187   0.093   0.282
##  4 F0 Female                 One off            0.0747  0.0237  0.126
##  5 F0 Male                   One off            0.0491 -0.0134  0.112
##  6 Both Sex Grand Offspring Multigenerational  1.05    0.484   1.62
##  7 Female Grand Offspring   Multigenerational  0.117  -0.393   0.627
##  8 Male Grand Offspring     Multigenerational  0.125  -0.386   0.636
##  9 Both Sex Grand Offspring One off           -0.380  -0.654  -0.107
## 10 Female Grand Offspring   One off            0.0729  0.0235  0.122
## 11 Male Grand Offspring     One off            0.079   0.0306  0.127
```



Meta-analysis overall results (lnCVR)

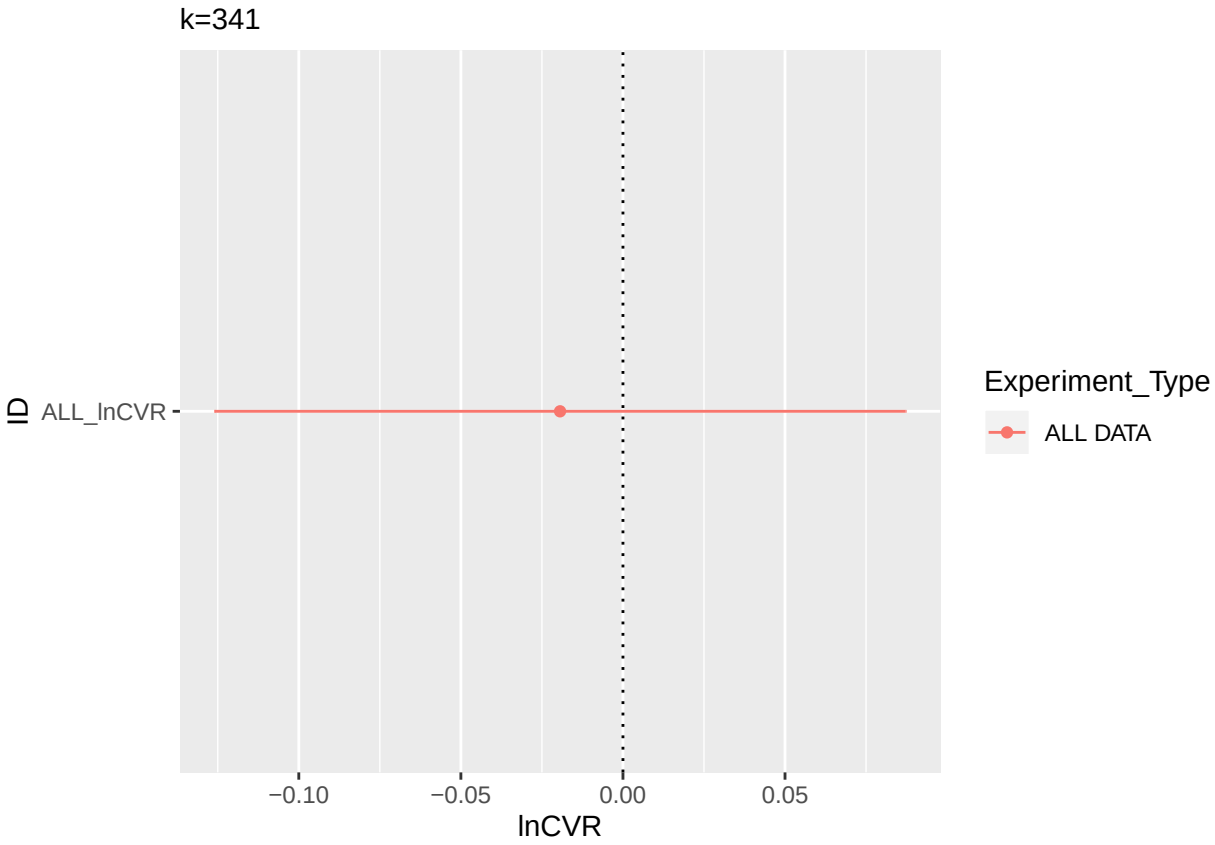
4. Calculating effect sizes (Done)

We calculated our effect sizes (lnCVR) for our complete data set (all traits).

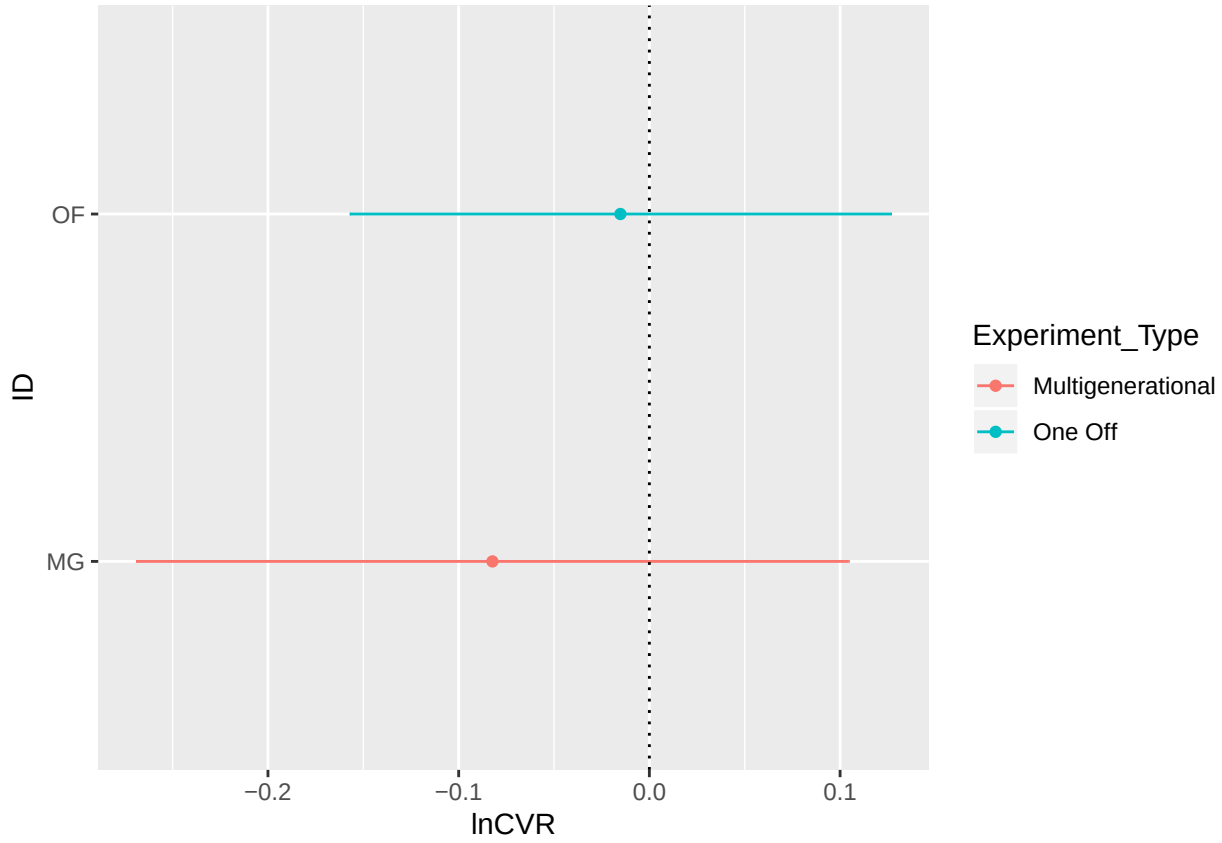
5. Running meta-analysis for lnCVR (overall, and then overall split by exposure type)

I conducted meta-analysis using lnCVR, first on the complete dataset, and then on subsetted data (split by one off and multigenerational exposure)

Plotting overall results lnCVR

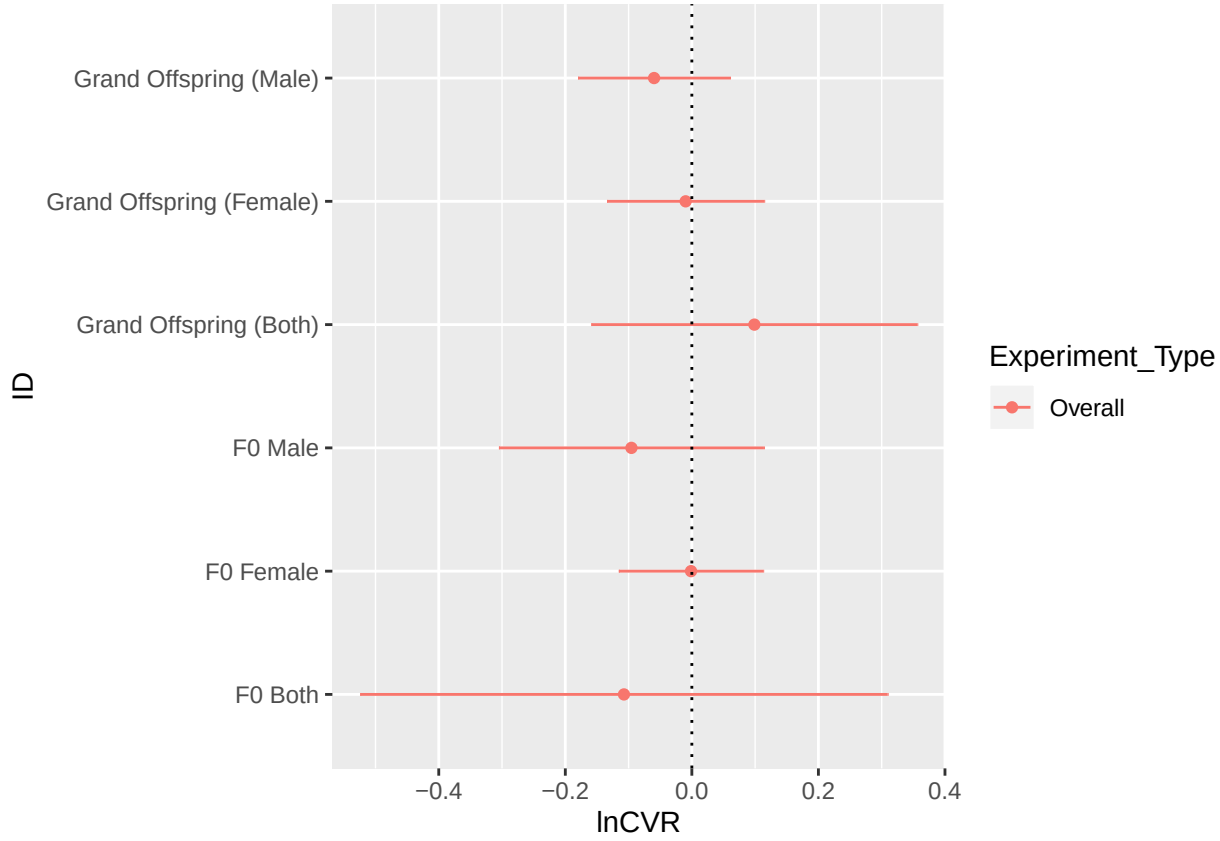


Plotting overall results when split by multigenerational and one off exposure (lnCVR)



Running meta-analysis lnCVR (Overall with moderators, and then overall split by exposure type with moderators)

Plotting overall results with moderators



Plotting Overall results with moderators (split by exposure type)