

How to proceed after the ANOVA table

Are there any preplanned contrasts
or pairwise comparisons?

no

yes

Is the overall H_0
significant?

use t-tests or (adjusted)
pairwise comparisons to
assess those

yes

no

Do we want formal
pairwise comparisons?

done: report overall mean
and no evidence against H_0

no

yes

Use unadjusted pairwise
comparisons for ALL
pairs of groups
(Fisher, LSD)

Use multiple comparison
procedures for ALL
pairwise comparisons
(Bonferroni, Tukey,
adjusted LSD ...)