Types of Anova: 3 Types

1. One way Anova: One factor with atleast two levels and these levels are independent.

Example: Doctor wants to test a new medication to decrease head ache. They split the participants in three groups (10 mg, 20mg, 30 mg). Doctor asked the participants to rate the headache between 1-10.

Medication is the factor.

Dosage are the levels.

2. Repeated measures Anova: One factor with atleast two levels, levels are dependent.

Example: Let consider running to be a factor. Running for day 1, day 2, day 3 being the levels. Performance is impacted.

3. Factorial anova: Two or more factors each of which with atleast two levels, which can be dependent or independent.

Example: Gender is a factor and has male or female has it’s levels (Independent as male and female are different entities). Running is a factor and has day 1, day 2 and day 3 as it’s levels.