# ARRIVE study plan

Please fill in all sections of the ARRIVE study plan.

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| Study details |
| Study title: | Title or ID | Grant code: | Enter |
| Start date: | Enter a start date | End date: | Enter an end date |
| Project licence or permit number: | E.g. PPL number or permit number | Project lead: | Name, email (e.g. of PPL holder) |
| Protocol numbers: | List protocols and steps being used | Expected severity: | Details of the severity classification |
| Primary responsible: | Name (e.g. of PIL holder) | Contact details: | Email/phone |
| Secondary contact: | Name | Contact details: | Email/phone |

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| [Experimental animals](https://arriveguidelines.org/arrive-guidelines/experimental-animals) 🔗  |
| Species | Strain/Genotype | Sex | Age | Weight | Source | Number |
| e.g. Mouse | e.g. C57Bl/6J | Select | e.g. 6 weeks | e.g. 20-22g | Enter here | e.g. 10 |
|  | Total number | Enter |

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| [Experimental procedures](https://arriveguidelines.org/arrive-guidelines/experimental-procedures) 🔗 What is done and how is it done, when and how often. |
| Procedures: | Include the route, frequency and duration of all the procedures taking place. |
| Surgical procedures: | Details of any surgical procedures, including pre- and post-operative care regime.  |
| Anaesthesia: | Type and duration |
| Analgesia: | Pre- and post-surgery analgesia regime |
| Locations: | e.g. rooms, surgical suites, experimental suites |
| Acclimatisation period: | Details of acclimation into the unit, during procedures or after surgery. |

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| [Animal care and monitoring](https://arriveguidelines.org/arrive-guidelines/animal-care-and-monitoring) 🔗 |
| Adverse events: | Expected study-specific and procedure-specific adverse events |
| Humane endpoints: | Indicate the number of events and/or duration of an event that would terminate the study of an animal |
| Welfare monitoring: | Signs to be monitored, with timing and frequency | Attached clinical assessment form: | Y/N |
| Changes in [housing and husbandry](https://arriveguidelines.org/arrive-guidelines/housing-and-husbandry) 🔗: | Indicate any changes in the housing or husbandry conditions that deviate from the units standard (e.g. single housing) and interventions for welfare refinement. |
| Restrictions in veterinary care: | Justify restricting the use of certain drugs/diet supplementation. |

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| Risks |
| Emergency procedures: | Detail the necessary steps to minimise data loss in the absence of the researcher, e.g. tissue collection procedures. |
| Potential risk to personnel: | Indicate if there are any risks to personnel during the work, e.g. carcinogenic material, toxicity, risk to pregnant staff |

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| Personnel involved in the experiment |
| Name | Procedures they will conduct | Trained and competent[ ]  |
| Name | Procedures they will conduct | Trained and competent[ ]  |

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| [Study design](https://arriveguidelines.org/arrive-guidelines/study-design) 🔗 and [sample size](https://arriveguidelines.org/arrive-guidelines/sample-size) 🔗 |
| Experimental groups: | Details of the experimental groups being compared, including control groups |
| [Experimental unit](https://arriveguidelines.org/arrive-guidelines/study-design/1b)🔗: | The entity independently assigned to different groups | Sample size per group: | Number of experimental units per group |
| Justification for sample size: | Explain how the sample size was decided. If relevant, provide details of a sample size calculation. |
| [EDA](https://eda.nc3rs.org.uk/)🔗 read only diagram: | Link to EDA read only diagram | Access code: | Enter |

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| [Inclusion and exclusion criteria](https://arriveguidelines.org/arrive-guidelines/inclusion-and-exclusion-criteria) 🔗  |
| Inclusion criteria: | Criteria that will determine whether an animal or experimental unit is allocated into the study |
| Exclusion criteria: | Criteria that will determine whether an animal, experimental unit or data point is removed from the study or analysis |
| Expected attrition: | Estimate of the percentage or number of animals or experimental units that will not reach the end of the study |

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| [Randomisation](https://arriveguidelines.org/arrive-guidelines/randomisation) 🔗 and [blinding/masking](https://arriveguidelines.org/arrive-guidelines/blinding) 🔗 |
| Method of allocation to group: | How the experimental units will be assigned to the groups, e.g. how the randomisation sequence will be generated |
| Strategy to minimise confounders: | How systematic differences between groups will be minimised, e.g. randomising cage placement or the order of treatment |
| Blinding strategy: | Methods to conceal group identity during allocation, conduct, outcome assessment and analysis. |

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| [Outcome measures](https://arriveguidelines.org/arrive-guidelines/outcome-measures) 🔗 and [statistical methods](https://arriveguidelines.org/arrive-guidelines/statistical-methods/) 🔗 |
| Outcome measures: | All measurements taken during the conduct of the study |
| Primary outcome measure: | The principal outcome measure that has informed the sample size |
| Analysis plans: | Factors included in the planned statistical analyses, appropriate for the data collected |

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| Sign off |  |  |
| Primary responsible: | Name | Date | [ ]  I confirm I am aware of my responsibilities as the primary responsible (e.g. conditions of the personal licence) and my training and competency record is up to date. |
| Project lead: | Name | Date | [ ]  I confirm I am aware of my responsibilities as a project lead/licence holder and this work is in line with the project. |
| Internal sign off: | Name | Date | Role, e.g. NACWO |