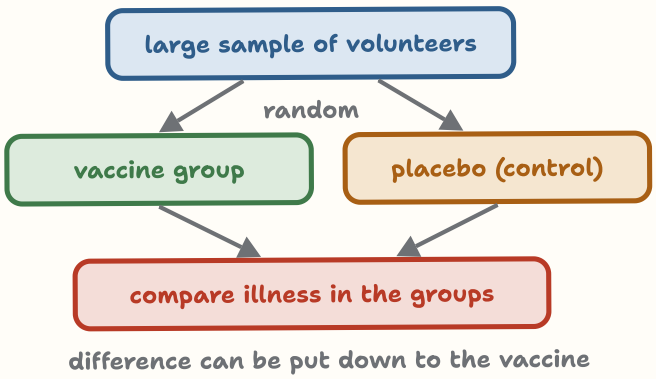
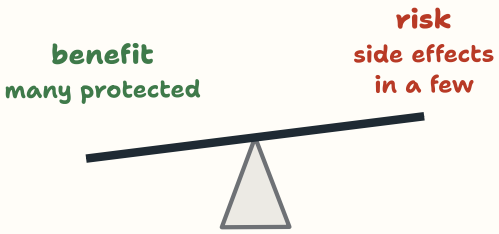
Vaccine and Antibody Ethics and Evidence

Judge a vaccine by a controlled, large trial, weigh benefit to many against risk to a few, and balance animal welfare against safety.

FAIR TRIAL



WEIGH BENEFIT AND RISK



animal tests: welfare concern, but they check safety before human trials

Key terms

control group	given a placebo, so a difference in illness can be put down to the vaccine; groups allocated at random.
placebo	a dummy treatment with no active ingredient, used for comparison.
sample size	a large sample is more representative and less affected by chance.
benefit and risk	the benefit of protecting many people (herd immunity) is weighed against side effects in a few.
informed consent	volunteers are told the risks before agreeing to take part.
animal testing	raises welfare concerns, but checks safety before human trials.

I can...

- [ ] Ethical issues associated with vaccines and monoclonal antibodies
- [ ] Discuss ethical issues
- [ ] Evaluate methodology, evidence and data on their use

EXAM TRAP

Ethics answers need both sides: a concern and its counter-argument. Say what a control group is for (comparison), and what a large sample does (less chance, representative). Never answer with opinion only.

4 marks: what earns them

1. A control group given a placebo allows comparison, so a difference in illness can be put down to the vaccine (groups allocated at random)
   Not: a control, with no comparison or purpose stated
2. A large sample size means results are representative / less affected by chance
   Not: a lot of people, with no consequence stated
3. Benefit of protecting many people (disease prevented / herd immunity) must be weighed against the risk of side effects in a few
   Not: vaccines are good or vaccines are bad (opinion only)
4. Animal testing raises welfare concerns, but is used to check safety before human trials
   Not: animal welfare concern with no balancing point

Remember

Control and random: fair comparison.
Large sample: less chance.
Benefit to many against risk to few.

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