

Searches for Nonhuman Primate Protocols and Procedures

The tables below contain links to searches of multiple databases for alternatives and refinements for a study to test an AIDS vaccine in primates. Construct your own queries with appropriate terms, or use the examples below if they are relevant.

Important! Pubmed MeSH Terms are specific words and phrases drawn from the NLM's controlled vocabulary. Use the [MeSH Terms Browser](#) to find the MeSH Terms most appropriate for your study. Substituting phrases not found in the MeSH vocabulary will **not** be effective.

Hot Tip! The [MAJR] qualifier identifies a MeSH Term which is a main topic of the article. Use [MAJR] in place of [MeSH] and [ALL] to find the subset of articles focussed on the search terms. Compare the "focussed" and "inclusive" examples below to see the effect of using the [MAJR] qualifier.

Replacement and Reduction:

The goal of these searches is to find models or systems which are more informative, to reduce animal numbers through better statistical methods, to replace species with ones more acceptable to society, and to replace animal use with in vitro or computer models, if possible.

	PubMed	Agricola	Other
Model AND Species	<i>focussed:</i> "AIDS Vaccines"[MAJR] AND "Primates"[MAJR] <i>inclusive:</i> "AIDS Vaccines"[MESH] AND "Primates" [MeSH]	(w=AIDS & w=Vaccine) & (w=Primate + w=Primates)	
Clinical Query	"AIDS Vaccines" [MeSH] AND ((Double [WORD] AND Blind* [WORD]) OR Placebo [WORD])		
Alternative Animal Models	"AIDS Vaccines" [MeSH] AND ("Animal Experimentation" [MeSH] OR "Models, Animal" [MeSH] OR "Models, Genetic" [MeSH])		
In Vitro Assays	("AIDS Vaccines" [MeSH] AND "Biological Assay" [MeSH]) NOT ("Models, Animal" [MeSH] OR "Animal Experimentation" [MeSH])		
Models Not Involving Animals	("AIDS Vaccines" [MeSH] AND ("Models, Theoretical" [MeSH] OR "Computer Simulation" [MeSH])) NOT ("Models, Animal" [MeSH] OR "Animal Experimentation" [MeSH])		
Statistical Methods	"Statistics" [MeSH] AND ("Animal Experimentation" [MeSH] OR "Models, Animal" [MeSH])	(w=Statistics + w=Statistical) & ((w=Sample & w=Size) + w=Power)	Statistics Core Hyperstat StatPages.net Power Analysis bibliography crossover

			designs
Teaching	"Teaching" [MeSH] AND ("Animal Experimentation" [MeSH] OR "Models, Animal" [MeSH])	w=teaching & w=alternatives	NORINA

Use the [PubMed MESH Terms Browser](#) to find terms to build your own queries.
Use [PubMed Clinical Queries](#) for studies focussed on therapies.

Refinement:

The goal of these searches is to find alternate procedures which cause less pain or distress.

	PubMed	Agricola	Other
Euthanasia	"Euthanasia" [MeSH] AND Primates [ALL]	w=Euthanasia & (w=Primates + w=Primate)	Methods pdf Methods
Blood Collection	"Blood Specimen Collection/Methods" [MeSH] AND Primates [ALL]	(w=Blood & (w=Sampling + w=Collecting)) & (w=Primates + w=Primate)	
Anesthesia	"Anesthesia/Methods" [MeSH] AND Primates [ALL]	w=Anesthesia & (w=Primates + w=Primate)	altweb Primates OR Primate
Analgesia	"Analgesia/methods" [MeSH] AND Primates [ALL]	w=Analgesia & (w=Primates + w=Primate)	altweb Primates OR Primate
Neuromuscular Blockade	"Neuromuscular Blockade" [MeSH] AND Primates [All]	w=Neuromuscular & w=Blockade & (w=Primates + w=Primate)	
Surgery	"Surgical Procedures, Operative"[MAJR] AND Primates [MAJR]	w=Surgery & (w=Primates + w=Primate)	
Substance Administration	"Drug Administration Routes" [MeSH] AND Primates [ALL]		
Toxicology	"Toxicology" [MeSH] AND ("Animal Experimentation" [MeSH] OR "Models, Animal" [MeSH])	w=Toxicology & w=Alternatives & (w=Primate + w=Primates)	Toxnet
Restraint	"Restraint, Physical/Methods" [MeSH] AND Primates [ALL]	w=Restraint & (w=Primates + w=Primate)	
Diet	"Diet" [MeSH] AND Primates [ALL]	w=Diet & (w=Primates + w=Primate)	
Intubation	"Intubation/Methods" [MeSH]	w=Intubation &	

	AND Primates [ALL]	(w=Primates + w=Primate)	
Perfusion	"Perfusion/Methods" [MeSH] AND Primates [ALL]	w=Perfusion & (w=Primates + w=Primate)	
Catheterization	"Catheterization/Methods" [MeSH] AND Primates [ALL]	(w=Catheter + w=Catheterization) & (w=Primate + w=Primates)	
Housing	"Housing, Animal" AND Primates [ALL]	w=Caging & (w=Primate + w=Primates)	NW Primate Housing OW Primate Housing Enrichment DB

Why Searches For Alternatives Must Be Performed

[Mice](#) | [Rats](#) | [Dogs](#) | [Cats](#) | [Rabbits](#) | [Frogs](#) | [Ferrets](#) | [Goats](#) | [Pigs](#) | [Fish](#) | [Primates](#)