# **Appendix B: Survey questionnaire**

Overleaf is a complete copy of the survey developed by the working group and disseminated between April and July 2020. The aim was to establish current practice in the use of head fixation and fluid restriction, and identify refinements. Further details can be found in Section 2.2.

## Participant Information

#### **General Information**

You are invited to take part in a survey to collect information on rodent high-yield behavioural experiments. This survey is running for a limited period and will close on 10 July 2020 at 4pm BST.

The questions have been developed by an <u>expert working group of the NC3Rs</u>. The aim is to establish current practice in this field and to identify any refinements to improve animal welfare and scientific outcomes. We very much hope you will participate.

Please read through these terms before agreeing to participate by ticking "yes". You may ask any questions before taking part by contacting the principal researcher (details on next page).

The survey consists of 70 questions on chronic implant surgeries, how animals are monitored post-operatively, motivational tools and behavioural testing protocols. We estimate it will take 30 minutes to complete. We ask that you complete it based on your most commonly used procedures or the ones with which you have most experience. Multiple responses from a research facility are encouraged, but respondents should be the lead person responsible for carrying out the research or the person chiefly involved in the care of the animals involved.

The results will be reviewed by the NC3Rs working group and used to help identify opportunities to refine this area of work. The group's recommendations will be published in a peer-reviewed paper and promoted within the research community. To keep up to date with the progress of the working group, please visit the NC3Rs website.

#### Do I have to take part?

Your participation is voluntary, and all questions are optional. You may withdraw at any point during the questionnaire for any reason by closing the browser. However, once you have submitted your answers, they will be anonymous so you will not be able to withdraw them.

## Data Management and Consent

How will your data be used?

All data collected in this survey will be anonymous, treated in strict confidence and held securely by the NC3Rs. The NC3Rs data management plan is available upon request (enquiries@nc3rs.org.uk).

Your data will be stored in a password-protected file and may be used in academic publications. Your IP address will not be stored. Research data will be stored for a minimum of three years after publication or public release.

Who will have access to your data?

The NC3Rs is the data controller with respect to your responses and these will be processed for the purpose of the research outlined above. Research is a task that we perform in the public interest.

The principal researcher is Dr Chris Barkus, NC3Rs, who is attached to the Department of Biomedical Services at the University of Oxford. Responsible members of the University of Oxford and funders may be given access to data for monitoring and/or audit of the study to ensure we are complying with guidelines, or as otherwise required by law. This project has been reviewed by, and received ethics clearance through, the University of Oxford Central University Research Ethics Committee (ethics approval reference R68817/RE001).

### What if there is a problem?

If you have a concern about any aspect of this project, please contact chris.barkus@nc3rs.org.uk. Your concern will be acknowledged within 10 working days. If you remain unhappy or wish to make a formal complaint, please contact Dr Vicky Robinson, Chief Executive, NC3Rs (enquiries@nc3rs.org.uk).Address: The NC3Rs, Gibbs Building, 215 Euston Road, London, NW1 2BE, or the Chair of the Oxford Medical Sciences Inter-Divisional Research Ethics Committee (ethics@medsci.ox.ac.uk); Address: Research Services, University of Oxford, Wellington Square, Oxford OX1 2JD.

Please note that you may only participate in this survey if you are 18 years of age or over.

If you have read the information above and agree to participate with the understanding that the data (including any personal data) you submit will be processed accordingly, please check the relevant box below to get started. Thank you in advance for your participation.

* 1. Have you read and understood this information, can confirm that you are over 18, and consent to
participate in this study?
Yes
○ No

2. Please select wh	nich area best describes your current research.
3. Please select the	e option that best describes your primary role
4. Please select the	e country you work in.
5. Please select the animal welfare role.	e species of animal you most commonly use in your research or support as part of y
Rat	
Mouse	
None of the above	ve

6. Do vou car	ry out surgery to in	nplant cranial d	evices in roden	ts or are vou resp	onsible for their po	st-
	e, for example as a				moible for their po	,J.
Yes						
No						

7. How many time	es is the animal typ	pically anaesthetis	ed for your mos	st common surgio	cal procedure?
_ 1					
_ 2					
3 or more					
8. What permane	ent devices are typi	ically implanted? S	Select all that ap	oply.	
Head fixation of	device		Optical fibre	S	
Chronic single	electrodes		Miniscope		
Electrode arra	ys		Cranial wind	low	
Ground and/or	r reference electrode(s)	)	Intercranial o	cannula(e)	
Ground screw	(s)		Lenses / pris	sms	
EMG electrode	e placement				
Other (please	specify)				
				2.2.1	
	ed with other types	of surgical interve			
Yes, viral deliv	ery of genetic material	of surgical interve	Yes, mini-pu		ect all that apply. cannula(e) implantati
Yes, viral deliv	ery of genetic material				
Yes, viral deliv Yes, lesion of a	ery of genetic material a particular brain area p implantation for osmo		Yes, mini-pu		
Yes, viral deliv	ery of genetic material a particular brain area p implantation for osmo		Yes, mini-pu		
Yes, viral deliv Yes, lesion of a	ery of genetic material a particular brain area p implantation for osmo		Yes, mini-pu		
Yes, viral deliv Yes, lesion of a Yes, mini-pum Other (please	ery of genetic material a particular brain area p implantation for osmo	otic diffusion delivery	Yes, mini-pu	mp with intra-cranial	cannula(e) implantati
Yes, viral deliv Yes, lesion of a Yes, mini-pum Other (please	ery of genetic material a particular brain area p implantation for osmo	otic diffusion delivery	Yes, mini-pu	mp with intra-cranial	cannula(e) implantati
Yes, viral deliv Yes, lesion of a Yes, mini-pum Other (please	ery of genetic material a particular brain area p implantation for osmo	otic diffusion delivery	Yes, mini-pu	mp with intra-cranial	cannula(e) implantati
Yes, viral deliv Yes, lesion of a Yes, mini-pum Other (please	ery of genetic material a particular brain area p implantation for osmo specify)  ce, how important	otic diffusion delivery	Yes, mini-pu No  the welfare of	the animals ove	cannula(e) implantati
Yes, viral deliv Yes, lesion of a Yes, mini-pum Other (please	ery of genetic material a particular brain area p implantation for osmo specify)  ce, how important	otic diffusion delivery	Yes, mini-pu No  the welfare of	the animals ove	cannula(e) implantati
Yes, viral deliv Yes, lesion of a Yes, mini-pum Other (please  In your experience) Periment?	ery of genetic material a particular brain area p implantation for osmo specify)  ce, how important	otic diffusion delivery	Yes, mini-pu No  the welfare of	the animals ove	cannula(e) implantati
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Yes, viral delivery Yes, lesion of a Yes, mini-pum Other (please In Yes). In your experience periment?  Veight of the implant osition of the implant imensions of the implant	ery of genetic material a particular brain area p implantation for osmo specify)  ce, how important	otic diffusion delivery	Yes, mini-pu No  the welfare of	the animals ove	cannula(e) implantati
Yes, viral delivery Yes, lesion of a Yes, mini-pum Other (please In Yes). In your experience periment?  Veight of the implant osition of the implant imensions of the implant	ery of genetic material a particular brain area p implantation for osmo specify)  ce, how important	otic diffusion delivery	Yes, mini-pu No  the welfare of	the animals ove	cannula(e) implantati

Bone cement
Dental adhesive (e.g. superbond)
Other (please specify). Please also add further details such as type of screw used (material, self-tapping or not, etc) a drill type (handheld, frame-mounted etc) used.

	Pre-emptive (shortly before surgery)	During surgery (continuous or discrete)	Post-operative (within 12 hours of end of surgery)
Opioids, for example buprenorphine			
Sustained-release opioids, for example buprenorphine SR			
NSAIDs, for example meloxicam			
Steriods, for example prednisolone			
Other anti- inflammatories			
Local anaesthetic, for example lidocaine			
Inhalation anaesthesia, for example isoflurane			
Injectable anaesthesia, for example ketamine/medetomidine			
Fluids, for example saline or gluco-saline			
Oral/injected antibiotics (if given routinely for most surgeries)			
ther (please specify)  13. What steps are	taken to ensure aseptic co	nditions? Select all that app	ly.
Sterile equipment	t	A trained assistant	
Sterile foil or simi be fully sterilised	lar for handling equipment that ca (e.g. hand drill)		
Sterile instrument	ts	animal and the sur	r compartments for preparation of th gery itself
Separate sterile ii	nstruments for each animal		ng up with skin disinfectant, for orhexidine-containing solution
	les (e.g. gloves, drapes, swabs e rile tray/disposable sterile surface	etc) Mask	<b>3</b>

	Minutes	300	0
	m and the dura typically removed?		
Yes			
No (please provide fu	rther information e.g. soften the dura chem	ically, thin the cranium)	
6. Is brain tissue typic	ally excised/lesioned to ease your	implant?	
Always			
Usually			
Sometimes			
Rarely			
Never			

7. In addition to the druperative care immedia	•		<del>-</del>		•
nat apply.					
	Never	Rarely	Sometimes	Usually	Always
Provide additional warmth		0	0		0
Provide extra nesting material			$\bigcirc$		
Additional palatable foods			0		0
Assessment of body weight/condition		$\bigcirc$	$\bigcirc$		
Easily accessible source of fluids (e.g. gel packs)				$\circ$	
Assessment of fluid intake		$\bigcirc$	$\bigcirc$	$\bigcirc$	
Assessment of locomotor activity			0		
Grimace scale or other pain assessment		$\bigcirc$	$\bigcirc$		$\bigcirc$
Advice from animal care or veterinary staff					0
other (please specify). Pleas					health checks
performed?  More than once a	day		Weekly		
Daily			We do not per	form any checks oth	er than usual
Other (please spec					

1 day
2 - 4 days
5 - 7 days
More than 7 days
N/A
Until defined criteria are met/Other (please specify)

	Never	Rarely	Sometimes	Usually	Always
Provide additional warmth					
Provide extra nesting material					
Additional palatable foods					
Assessment of body weight/condition	$\bigcirc$		$\bigcirc$		$\circ$
Easily accessible source of fluids (e.g. gel packs)	0	0	0	0	0
Assessment of fluid intake			$\bigcirc$		
Assessment of locomotor activity			0		
Grimace scale or other pain assessment	$\bigcirc$	$\bigcirc$	$\bigcirc$		$\circ$
Advice from animal care or veterinary staff	0				0
Administration of analgesia					
Administration of steroids	0				0
Provide saline/glucosaline via injection	$\bigcirc$			$\bigcirc$	
Routine administration of antibiotics (i.e. to every animal regardless of any evidence of infection)		0		0	0
Administration of anti- inflammatory agent to prevent brain swelling	$\bigcirc$	$\bigcirc$		$\bigcirc$	$\bigcirc$
Administration of steroids	0				0
Other (please specify)					
			_		

	Not at all important	Slightly important	Moderately important	Very important	Extremely importan
Provide additional varmth	0	0	0	0	0
Provide extra nesting naterial	$\circ$	$\circ$		$\circ$	$\circ$
additional palatable pods					
ssessment of body reight/condition	$\bigcirc$	$\bigcirc$			$\bigcirc$
Easily accessible ource of fluids (e.g. ge acks)	ı	0			
Assessment of fluid Intake	$\bigcirc$	$\bigcirc$			$\bigcirc$
assessment of ocomotor activity				0	
Grimace scale or other ain assessment	$\circ$	$\bigcirc$			$\bigcirc$
administration of analgesia		0		0	
Advice from animal care or veterinary staff		$\bigcirc$			$\bigcirc$
administration of teroids			0		
Provide aline/glucosaline via njection				$\bigcirc$	$\bigcirc$
Routine administration of antibiotics (i.e. to every animal regardless of any evidence of fection)					
administration of anti- nflammatory agent to prevent brain swelling					
administration of teroids	0	0		0	
ner (please specify)					

1 day 2 - 3 days More than 14 days 4 - 6 days We do not use food or fluid restriction  23. What period of time are the animals typically given to recover from surgery before the first believes? 0 days 1 day 10 - 14 days 10 - 14 days 10 - 14 days 2 - 3 days More than 14 days 4 - 6 days We do not perform behavioural tests on these and the second surgery (i.e. non-instrumented animals)  Immediately after surgery (i.e. instrumented animals)  Following recovery from surgery (i.e. instrumented animals)	0 days		7 - 9 days	
2 - 3 days  4 - 6 days  We do not use food or fluid restriction  23. What period of time are the animals typically given to recover from surgery before the first believest?  0 days  1 day  10 - 14 days  2 - 3 days  More than 14 days  4 - 6 days  More than 14 days  4 - 6 days  We do not perform behavioural tests on these as the surgery (i.e.  Singly-housed Pair-housed Group-housed animals)  mediately after surgery (i.e.  non-instrumented animals)  mediately after surgery (i.e.  nstrumented animals)  collowing recovery from surgery (i.e.				
4 - 6 days  We do not use food or fluid restriction  23. What period of time are the animals typically given to recover from surgery before the first believes?  0 days  7 - 9 days  1 day  10 - 14 days  4 - 6 days  More than 14 days  4 - 6 days  We do not perform behavioural tests on these and the surgery (i.e.  1 day  1 day  2 - 3 days  More than 14 days  4 - 6 days  We do not perform behavioural tests on these and the surgery (i.e.  1 day  1 day  1 day  1 day  4 - 6 days  More than 14 days  Group-housed  Singly-housed  Pair-housed  Group-housed  Before surgery (i.e.  Indicately after surgery (i.e.  Instrumented animals)  Following recovery from surgery (i.e.				
23. What period of time are the animals typically given to recover from surgery before the first bettest?  0 days 1 day 10 - 14 days 2 - 3 days More than 14 days 4 - 6 days We do not perform behavioural tests on these as the surgery (i.e. non-instrumented animals)  Immediately after surgery (i.e. nostrumented animals)  Following recovery from surgery (i.e. nostrumented animals)  Following recovery from surgery (i.e.				or fluid restriction
test?  O days  To days  More than 14 days  We do not perform behavioural tests on these as the days  How are animals typically housed during an experiment?  Singly-housed  Pair-housed  Group-housed  Before surgery (i.e.  Innon-instrumented  Animals)  Immediately after surgery (i.e.  Instrumented animals)  Following recovery from surgery (i.e.	4 - 6 days		we do not use lood	or ilula restriction
1 day 2 - 3 days More than 14 days 4 - 6 days We do not perform behavioural tests on these as  4. How are animals typically housed during an experiment?  Singly-housed Pair-housed Group-housed Before surgery (i.e. non-instrumented animals) Immediately after surgery (i.e. instrumented animals) Following recovery from surgery (i.e.	•	ne are the animals typical	ly given to recover from surg	gery before the first behavio
2 - 3 days  4 - 6 days  We do not perform behavioural tests on these and the second state of the second st	0 days		7 - 9 days	
4 - 6 days  We do not perform behavioural tests on these and the second states of the second	1 day		10 - 14 days	
4. How are animals typically housed during an experiment?  Singly-housed Pair-housed Group-housed  Before surgery (i.e. non-instrumented animals)  Immediately after surgery (i.e. non-instrumented animals)  Following recovery from surgery (i.e. non-instrumented animals)	2 - 3 days		More than 14 days	
Singly-housed Pair-housed Group-housed  Before surgery (i.e. non-instrumented animals)  Immediately after surgery (i.e. nostrumented animals)  Following recovery from surgery (i.e. nostrumented animals)	4 - 6 days		We do not perform	behavioural tests on these animal
Before surgery (i.e. non-instrumented animals)  Immediately after surgery (i.e. instrumented animals)  Following recovery from surgery (i.e.	_		_	
Before surgery (i.e. non-instrumented animals)  Immediately after surgery (i.e. instrumented animals)  Following recovery from surgery (i.e.	. How are animals typi	cally housed during an ex	xperiment?	
non-instrumented animals)  Immediately after surgery (i.e. instrumented animals)  Following recovery from surgery (i.e. instrumented animals)		Singly-housed	Pair-housed	Group-housed
Immediately after surgery (i.e	on-instrumented		0	
surgery (i.e.	urgery (i.e.	0	0	$\circ$
	urgery (i.e.	0	0	

We have a bespok We keep detailed r	neet used for all pees scoresheet speenotes of each animotes of each animotes of each animotes system but recond keep detailed	ost-operative animal cifically for these type mal in a lab book.  mal on their cage car ord concerns as they	s. es of experiments. d/in our colony record s		
. How often do you se	ee each of the	se adverse effect	s at any point post	-surgery? Usually	Always
cabbing/wounding round the head nplant	0	0	0	0	0
Secondary infections					
Vound rupturing/loss of titches					
oss/repair needed of nead implant	$\bigcirc$	$\circ$		$\bigcirc$	
Bleeding					
oss of appetite					
Piloerection					
Shivering					
Reluctance to move			0		
ack of alertness	0	0	0	0	0
ack of grooming					
lunched posture	0	0		0	
ocalisation					
nflammation	0		0	0	0
xcessive weight loss or example >20% over		0	0	0	0
few days)					

# PART B. Fluid and food restriction

	Not a consideration at all	n Least important	Not very important	Important	Most important
Jsed by others in the ield					
Established lab practice					
Better for scientific outcomes of the study e.g. lower number of rials to criterion)	0	0	0	0	0
The alternative food/fluid) has not vorked in the past	$\circ$	$\circ$	$\circ$		$\circ$
The experimental set- up practically requires thechnical consideration					0
Animal welfare considerations		$\circ$	$\circ$		
Regulatory advice					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					
29. Are the anima					

30. How is fluid res	striction initially	introduced?			
We gradually re there).	duce access to wa	ter to the level used du	ıring testing (i.e. starting	with a large volur	me and decrease fro
We restrict to th procedure).	e level used during	testing from the start	(i.e. the volume used rer	mains more-or-les	s constant througho
		typically necessary and increase from there).	d gradually increase this	as weight and/or	performance stabilis
Other (please sp	pecify)				
apply.  Task performand Number of trials  Time engaged v  Other (please s	completed			l amount of food/f	
Office (pictuse s)					
Is there a daily mis value with units.		of water that MUS	ST be provided to ea	ach animal? If	so, please speci
		of water that MUS	ST be provided to ea	ach animal? If	so, please speci
Is there a daily mis value with units.	nimum amount  t important con	siderations for usin	ng this value?		
Is there a daily miss value with units.	nimum amount	siderations for usin		ach animal? If	so, please speci
Is there a daily mist value with units.  What are the most eterinary advice alues given in the	nimum amount  t important con	siderations for usin	ng this value?		
Is there a daily mit value with units.  What are the most eterinary advice elues given in the erature experience of	nimum amount  t important con	siderations for usin	ng this value?		
Is there a daily mits value with units.  What are the most eterinary advice alues given in the erature apprience of allaborators alidance from local nical review process g. from your IACUC	nimum amount  t important con	siderations for usin	ng this value?		
Is there a daily mis value with units.	nimum amount  t important con	siderations for usin	ng this value?		

Yes, at a fixed time	ter testing				
	-	ov goin in tocting			
No, animals only re Other (please spec		ey gain in testing			
Other (piease spec					
35. Do animals recei	ive a different a	amount of fluid o	n non-testing days'	?	
Yes - 12 hours or l	onger/constant ac	cess	Yes - less than	n 1 hour access	
Yes - 6 – 12 hours	access		Yes - until the	y have consumed a	fixed amount of liqu
Yes - 2 – 6 hours	access			receive the same am	ount of fluid access
Yes - 1 hour acces	SS			on-testing days seven days a week	
			O TWITE WE LEGIC	seven days a week	
6. How often do you se	ee the following	a sians of dehvdi	ration?		
,	Never	Rarely	Sometimes	Usually	Always
Reduced skin turgor e.g. skin tent test)		0		0	0
Sunken eyes					
Marked variation in					
general behaviour (e.g. change in locomotor activity, ncreased/decreased activity)		0			
change in locomotor activity, ncreased/decreased		0	0	0	0
change in locomotor activity, ncreased/decreased activity) Change in faecal pellet	0	0	0	0	0
change in locomotor activity, ncreased/decreased activity)  Change in faecal pellet consistency  Dry, 'tacky' oral mucous			0	0	0
change in locomotor activity, ncreased/decreased activity)  Change in faecal pellet consistency  Dry, 'tacky' oral mucous membrane  Reduced capillary refill					
change in locomotor activity, ncreased/decreased activity)  Change in faecal pellet consistency  Dry, 'tacky' oral mucous membrane  Reduced capillary refill ime					
change in locomotor activity, ncreased/decreased activity)  Change in faecal pellet consistency  Dry, 'tacky' oral mucous membrane  Reduced capillary refill ime  Hunched posture					
change in locomotor activity, ncreased/decreased activity)  Change in faecal pellet consistency  Ory, 'tacky' oral mucous membrane  Reduced capillary refill ime  Hunched posture  Abnormal gait  Deviation from growth					

extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals remain below 80% of reference weight for an extended period of time (please specify)  We do not remove animals from the study based on the measure (please specify)  Please specify the length of time considered if appropriate or if another measure is used.  11. Do you use a fixed value for the reference weight or adjust this throughout the study?  We use a fixed value based on one measurement of free feeding weight.  We adjust based on control mice from the same cohoon.  We use a fixed value based on several measurements of		More than once a day	Weekly
Other (please specify)    B. When do these checks take place? Select all that apply.   At the start of each testing day   Shortly after fluid access   At the end of each testing day   Shortly before behavioural testing   At the end of each testing day   Shortly after behavioural testing   Around lights on in the animal house   Shortly after behavioural testing   Around lights off in the animal house   Other (please specify)		Daily	Never
At the start of each testing day   Shortly after fluid access   Shortly before behavioural testing   At the end of each testing day   Shortly before behavioural testing   At the end of each testing day   Shortly after behavioural testing   Around lights on in the animal house   Shortly before fluid access   Around lights off in the animal house   Other (please specify)		Several times a week	
At the start of each testing day Shortly before behavioural testing At the end of each testing day Shortly before behavioural testing Around lights on in the animal house Shortly before fluid access Around lights off in the animal house Other (please specify)  What is the limit for intervention, for example increased monitoring or free access to water? Animals fall below 85% of reference weight Animals fall below 80% of reference weight Animals fall below 80% of reference weight Animals fall below another proportion of reference weight/other measure (please specify)  Animals fall below 85% of reference weight acutely Animals fall below 85% of reference weight for an extended period of time (please specify) Animals fall below 80% of reference weight for an extended period of time (please specify)  Animals remain below 80% of reference weight for an extended period of time (please specify)  We do not remove animals from the study?  We use a fixed value based on several measurements of free feeding weight.  We use a fixed value based on several measurements of free feeding weight.  We adjust based on publicly available growth curves (e.g.		Other (please specify)	
At the start of each testing day Shortly before behavioural testing At the end of each testing day Shortly before behavioural testing Around lights on in the animal house Shortly before fluid access Around lights off in the animal house Other (please specify)  What is the limit for intervention, for example increased monitoring or free access to water? Animals fall below 85% of reference weight Animals fall below 80% of reference weight Animals fall below 80% of reference weight Animals fall below another proportion of reference weight/other measure (please specify)  Animals fall below 85% of reference weight acutely Animals fall below 85% of reference weight for an extended period of time (please specify) Animals fall below 80% of reference weight for an extended period of time (please specify)  Animals remain below 80% of reference weight for an extended period of time (please specify)  We do not remove animals from the study?  We use a fixed value based on several measurements of free feeding weight.  We use a fixed value based on several measurements of free feeding weight.  We adjust based on publicly available growth curves (e.g.			
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Shortly before behavioural testing At the end of each testing day Shortly after behavioural testing Around lights on in the animal house Shortly before fluid access Around lights off in the animal house Other (please specify)  What is the limit for intervention, for example increased monitoring or free access to water? Animals fall below 85% of reference weight Animals fall below 85% of reference weight Animals fall below 75% of reference weight Animals fall below another proportion of reference weight/other measure (please specify)  Animals fall below 85% of reference weight for an extended period of time (please specify) Animals fall below 85% of reference weight for an extended period of time (please specify)  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals remain below 80% of reference weight for an extended period of time (please specify)  We do not remove animals from the study?  We adjust based on data from within our labJunit.  We use a fixed value based on one measurement of free feeding weight.  We adjust based on publicly available growth curves (e.g.		·	
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essed?			

43. Are the anima	als that you use or ca	are for often und	ler food restrict	ion?	
Yes	·				
○ No					

4. How is food restriction initially introduc	ed?
We gradually reduce the food given to the lev there).	rel used during testing (i.e. starting with a large amount and decrease from
We restrict to the level used during testing fro the procedure).	m the start (i.e. the amount given remains more-or-less constant through
We restrict at a level lower than is typically ne (i.e. starting with a small amount and increase	ecessary and gradually increase this as weight and/or performance stabilise from there).
Other (please specify)	
5. How do you determine that your anima	als are at an appropriate level of food restriction? Select all
Task performance	We give a fixed amount of food
Number of trials completed	We work to a fixed percentage of baseline weight
Time engaged with task	<del>_</del>
Other (please specify)	
6. Do you typically provide a fixed amoun	nt of food or is it adjusted? What is your primary guide if you
6. Do you typically provide a fixed amoundjust?  Adjusted to maintain good body weight  Adjusted to maintain task performance	nt of food or is it adjusted? What is your primary guide if you
6. Do you typically provide a fixed amoundjust?  Adjusted to maintain good body weight	nt of food or is it adjusted? What is your primary guide if you
6. Do you typically provide a fixed amoundjust?  Adjusted to maintain good body weight  Adjusted to maintain task performance	nt of food or is it adjusted? What is your primary guide if you
6. Do you typically provide a fixed amount djust?  Adjusted to maintain good body weight  Adjusted to maintain task performance  Fixed (please specify)	
6. Do you typically provide a fixed amount djust?  Adjusted to maintain good body weight  Adjusted to maintain task performance  Fixed (please specify)	
6. Do you typically provide a fixed amount djust?  Adjusted to maintain good body weight  Adjusted to maintain task performance  Fixed (please specify)	
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6. Do you typically provide a fixed amount djust?  Adjusted to maintain good body weight  Adjusted to maintain task performance  Fixed (please specify)	
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6. Do you typically provide a fixed amount djust?  Adjusted to maintain good body weight  Adjusted to maintain task performance  Fixed (please specify)	hat MUST be provided to each animal? If so, please specify

Not a consideration at all Least important Not very important Important Most important Veterinary advice  Values given in the literature  Experience of collaborators  Guidance from local ethical review process (e.g., from your IACUC or AWERB)  Regulatory advice  Established lab practice  Olease list any guidelines used in making this decision.  49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's back performance  Yes - a variable amount based on the animal's task performance  Yes - a variable amount based on the animal's task performance  Yes - a fixed amount less than ad lib but greater than the typical amount on a test day  50. How often are the animals under food control weighed?  More than once a day  Daily  Several times a week  Weekly  Other (please specify)	Veterinary advice	Veterinary advice			siderations for usi	•		
Values given in the literature	Values given in the literature  Experience of collaborators  Guidance from local ethical review process (e.g. from your IACUC or AWERB)  Regulatory advice  Established lab practice  Bease list any guidelines used in making this decision.  49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a fixed amount approximately equal to ad lib into the performance  Yes - a fixed amount less than ad lib but greater than the typical amount on a test day  50. How often are the animals under food control weighed?  More than once a day  Daily  Several times a week  Weekly	Values given in the literature  Experience of collaborators  Guidance from local ethical review process (e.g. from your IACUC or AWERB)  Regulatory advice  Established lab practice  Bease list any guidelines used in making this decision.  49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a fixed amount approximately equal to ad lib into the performance  Yes - a fixed amount less than ad lib but greater than the typical amount on a test day  50. How often are the animals under food control weighed?  More than once a day  Daily  Several times a week  Weekly	N			Not very important	Important	Most important
Values given in the literature	Values given in the literature	Values given in the literature	Veterinary advice	at all	Least Important	Not very important	Important	Wost Important
Experience of collaborators  Guidance from local ethical review process (e.g. from your IACUC or AWERB)  Regulatory advice  Established lab practice  Lease list any guidelines used in making this decision.  49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a variable amount less than ad lib but greater than the typical amount on a test day  50. How often are the animals under food control weighed?  More than once a day  Daily  Several times a week  Weekly	Experience of collaborators  Guidance from local ethical review process (e.g. from your IACUC or AWERB)  Regulatory advice  Established lab practice  Lease list any guidelines used in making this decision.  49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a variable amount less than ad lib but greater than the typical amount on a test day  50. How often are the animals under food control weighed?  More than once a day  Daily  Several times a week  Weekly	Experience of collaborators  Guidance from local ethical review process (e.g. from your IACUC or AWERB)  Regulatory advice  Established lab practice  Lease list any guidelines used in making this decision.  49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a variable amount less than ad lib but greater than the typical amount on a test day  50. How often are the animals under food control weighed?  More than once a day  Daily  Several times a week  Weekly	·	<u> </u>				
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All Daily  Several times a week  Weekly  Aguidelines used in making this decision.  Aguidelines used in tests amount approximately equal to ad lib into the maximal stask performance  No  N/A - animals are used in tests seven days a week.  N/A - animals are used in tests seven days a week.  Yes - a fixed amount less than ad lib but greater than the typical amount on a test day.  More than once a day  Daily  Several times a week  Weekly	All Daily  Several times a week  Weekly  Aguidelines used in making this decision.  Aguidelines used in tests amount approximately equal to ad lib into the maximal stask performance  No  N/A - animals are used in tests seven days a week.  N/A - animals are used in tests seven days a week.  Yes - a fixed amount less than ad lib but greater than the typical amount on a test day.  More than once a day  Daily  Several times a week  Weekly	All Daily  Several times a week  Weekly  Aguidelines used in making this decision.  Aguidelines used in tests amount approximately equal to ad lib into the maximal stask performance  No  N/A - animals are used in tests seven days a week.  N/A - animals are used in tests seven days a week.  Yes - a fixed amount less than ad lib but greater than the typical amount on a test day.  More than once a day  Daily  Several times a week  Weekly	ethical review process (e.g. from your IACUC	0	0	0	0	0
49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a fixed amount approximately equal to ad lib into No  No  No  Yes - a variable amount based on the animal's task performance  N/A - animals are used in tests seven days a week.  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  No  Pes - a fixed amount approximately equal to ad lib into No  No  No  No  No  No  Several times a week  Weekly	49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a fixed amount approximately equal to ad lib into No  No  No  Yes - a variable amount based on the animal's task performance  N/A - animals are used in tests seven days a week.  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  No  Pes - a fixed amount approximately equal to ad lib into No  No  No  No  No  No  Several times a week  Weekly	49. On non-testing days is a larger amount of food given?  Yes - a variable amount based on the animal's body weight  Yes - a variable amount based on the animal's task performance  Yes - a fixed amount approximately equal to ad lib into No  No  No  Yes - a variable amount based on the animal's task performance  N/A - animals are used in tests seven days a week.  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  Yes - a fixed amount approximately equal to ad lib into No  No  No  No  No  Pes - a fixed amount approximately equal to ad lib into No  No  No  No  No  No  Several times a week  Weekly	Regulatory advice					
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Daily Several times a week Weekly	Daily Several times a week Weekly	Daily Several times a week Weekly		mount based on th	ne animal's task	_		
Several times a week  Weekly	Several times a week  Weekly	Several times a week  Weekly	Yes - a fixed amount on typical amount on 50. How often are the	a test day ne animals und			re used in tests s	even days a week.
Weekly	Weekly	Weekly	Yes - a fixed amount on typical amount on 50. How often are the More than once a	a test day ne animals und			re used in tests s	even days a week.
			Yes - a fixed amount on typical amount on 50. How often are the More than once a Daily	a test day ne animals und day			re used in tests s	even days a week.
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			Yes - a fixed amount on typical amount on typical amount on 50. How often are the More than once a Daily Several times a well Weekly	a test day ne animals und day veek			re used in tests s	even days a week.
			Yes - a fixed amount on typical amount on typical amount on 50. How often are the More than once a Daily Several times a well Weekly	a test day ne animals und day veek			re used in tests s	even days a week.

	At the start of each testing day
	Shortly before behavioural testing
	Shortly after behavioural testing
	Shortly before feeding
	Shortly after feeding
	At the end of each testing day
	Around lights on in the animal house
	Around lights off in the animal house
	Other (please specify)
L	
52 V	Vhat is the limit for intervention, for example increased monitoring or free access to food?
	Animals fall below 85% of reference weight
	Animals fall below 80% of reference weight
	Animals fall below 75% of reference weight
	Animals fall below another proportion of reference weight/other measurement (please specify)
( )	Alimitals fail below arother proportion of reference weight other measurement (pieuse specify)
Г	
3. W	What is the limit for removing the animal from the study? (e.g euthanasia)  Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)
i3. V	Animals fall below 85% of reference weight acutely
[ 33. W	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)
[ 33. V	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely
[[	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely
33. W	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)
[[	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)  We do not remove animals from the study based on this measure (please specify)
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)  We do not remove animals from the study based on this measure (please specify)
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)  We do not remove animals from the study based on this measure (please specify)  e specify the length of time considered if appropriate or if another measure is used.
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals remain below 75% of reference weight for an extended period of time (please specify)  We do not remove animals from the study based on this measure (please specify)  e specify the length of time considered if appropriate or if another measure is used.
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)  We do not remove animals from the study based on this measure (please specify)  e specify the length of time considered if appropriate or if another measure is used.  To you use a fixed value for the reference weight or adjust this throughout the study?  We use a fixed value based on one measurement of free
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)  We do not remove animals from the study based on this measure (please specify)  e specify the length of time considered if appropriate or if another measure is used.  To you use a fixed value for the reference weight or adjust this throughout the study?  We use a fixed value based on one measurement of free  We adjust based on data from within our lab/unit.
	Animals fall below 85% of reference weight acutely  Animals remain below 85% of reference weight for an extended period of time (please specify)  Animals fall below 80% of reference weight acutely  Animals remain below 80% of reference weight for an extended period of time (please specify)  Animals fall below 75% of reference weight acutely  Animals remain below 75% of reference weight for an extended period of time (please specify)  Animals fall below another proportion of reference weight (please specify)  We do not remove animals from the study based on this measure (please specify)  e specify the length of time considered if appropriate or if another measure is used.  To you use a fixed value for the reference weight or adjust this throughout the study?  We use a fixed value based on one measurement of free feeding weight.  We adjust based on data from within our lab/unit.  We adjust based on control mice from the same cohort.  We use a fixed value based on several measurements of

	re any r	neasures	s other t	han body	/ weight	assesse	d?			
	Body con	dition								
	Home ca	ge activity								
	Other (ple	ease speci	fy)							
										maximisin
e c	of the ar	ıimals? (	Could an	nything fu	ırther be	done to	improve	welfare <sup>·</sup>	further?	

T	Head fixation  Tethered device  Home cage testing	
	Home cage testing	
Т		
	Testing without restraint e.g. wireless recording or no record	ding device
58. Are		cedure and the tethering/restraint method togethe
	Together, we acclimatise animals to being ethered/restrained whilst they also make basic	N/A - animals immediately enter testing using the full and tethering/restraint method.
re	responses.	N/A - We only perform wireless recordings or no
b s	We acclimatise animals to being tethered/restrained first perfore adding any elements of the task, i.e. we have some sessions in which they are restrained but the task is not run.	recording so do not restrict the animals' movement in way.
	Animals receive some behavioural training before being	
	ethered/restrained for the first time (or before surgery).	
O C	Other (please specify)	
before	e formal testing begins)?	
O 0	)	<u></u> 3
1	L	<u>4+</u>
_ 2	2	
60. Do	o the animals have a habituation/acclimatisation	n period at the start of each formal testing session
○ N	No	
_ Y	Yes (please specify length of time and other details)	

Mana Harris		navioural testi		4 times a week		
More than twice a  Twice a day	day			ekly		
5 – 7 times a wee	sk		we	екіу		
3 – 7 umes a wee	<b>N</b>					
2. What is the typical	duration of a	behavioural s	session?			
0		Minutes	6		240	
3. Which of the follow	ing may term	ninate a behav	vioural session?	How commo	nly is this the	e reason for
iding a session?						
						This measure would not end
	Never	Rarely	Sometimes	Usually	Always	behavioural session
nimal stops engaging	Never	reacty	Sometimes	Ostally	Aways	30331011
n the task/fixed number f response omissions						
nimal shows signs of						
listress/ill health	O	0				
ixed amount of time						
ixed number of trials	0	0	0			
ixed number of correct esponses						
Fixed number of						
ncorrect responses						
nimal reaches a raining criterion						
raining criterion	0	0	0	0	0	0

It varies as part of			ocans)		
		for non-scientific rea			
Please provide further inf	ormation (e.g. plea	ase specify if a rever	se light cycle is used)		
What approximate p	percentage of th	ne initial cohort c	of animals typically	fail to complete	behavioural
ting?					
0		%		100	
)					
How frequently are					
nimals persistently do	Never	Rarely	Sometimes	Usually	Always
t engage in the task			O		
nimals frequently ow signs of distress					
ring the task					
emoved due to ill ealth/implant					
mplications					

Saccharine solution  Milkshake  Soya milk  Fruit juice  Food pellet similar to standard lab chow.  Sucrose pellet  Flavoured food/sucrose pellet  Electrical stimulation of, for example, the dopamine system  Optical stimulation of, for example, the dopamine system  A sensory cue (e.g. visual and/or auditory cue(s))  Please provide further information and specify any other rewards not listed above.  68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as	
Milkshake  Soya milk  Fruit juice  Food pellet similar to standard lab chow.  Sucrose pellet  Flavoured food/sucrose pellet  Electrical stimulation of, for example, the dopamine system  Optical stimulation of, for example, the dopamine system  A sensory cue (e.g. visual and/or auditory cue(s))  Please provide further information and specify any other rewards not listed above.  68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  Yes, using this reward means more food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as	
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Flavoured food/sucrose pellet  Electrical stimulation of, for example, the dopamine system  Optical stimulation of, for example, the dopamine system  A sensory cue (e.g. visual and/or auditory cue(s))  Please provide further information and specify any other rewards not listed above.  68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  Yes, using this reward means more food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as	
Sucrose pellet  Flavoured food/sucrose pellet  Electrical stimulation of, for example, the dopamine system  Optical stimulation of, for example, the dopamine system  A sensory cue (e.g. visual and/or auditory cue(s))  Please provide further information and specify any other rewards not listed above.  68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  Yes, using this reward means more food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as	
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A sensory cue (e.g. visual and/or auditory cue(s))  Please provide further information and specify any other rewards not listed above.  68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  Yes, using this reward means more food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals complete a greater pehavioural performance than previously or compared to other groups.  Yes - using this reward means animals complete a greater behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as	n
Please provide further information and specify any other rewards not listed above.  68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  Yes, using this reward means more food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as	
68. Has this choice of reward altered your food/fluid restriction regime?  Yes, using this reward means less food/fluid restriction  Yes, using this reward means more food/fluid restriction  No  N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  We have only ever used this reward and would not consider changing this.  N/A - we do not use food/fluid restriction.	
No N/A - We have only ever used this reward  69. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  We have only ever used this reward but would cons changing if it could improve behavioural performance response rates.  We have only ever used this reward and would not consider changing this.  No - we have not seen any change/they respond as	restriction regime?
N/A - We have only ever used this reward  99. Has this choice of reward altered behavioural performance in your animals?  Yes - using this reward means animals complete a greater number of trials than previously or compared to other groups.  Yes - using this reward means animals have greater behavioural performance than previously or compared to other groups.  We have only ever used this reward but would cons changing if it could improve behavioural performance response rates.  We have only ever used this reward and would not consider changing this.  N/A - we do not use food/fluid restriction.	
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behavioural performance than previously or compared to other groups.  No - we have not seen any change/they respond as  consider changing this.  N/A - we do not use food/fluid restriction.	We have only ever used this reward but would consi changing if it could improve behavioural performance response rates.
No - we have not seen any change/they respond as	consider changing this.
	N/A - we do not use lood/illula restriction.

70. Are any of the following aversive training methods used? Select all that apply.	
Air puff	
White noise	
Time out	
Shock	
Other (please specify)	
71. Finally, is there any other key information about your behavioural protocol that is important in ensurin the welfare of the animals? Can you identify any parts of the procedure where further improvements are possible?	

nk you for participating	ın tnıs survey.		