

Animal Welfare regulations define a painful procedure as “any procedure that would reasonably be expected to cause more than slight or momentary pain or distress in a human being to which that procedure is applied, that is, pain in excess of that caused by injections or other minor procedures” (9 CFR § 1.1).

If multiple categories may apply, you should report each animal only once in the category consistent with the greatest amount of pain or distress they experience

USDA Category	C	D	E
<p>For more details on UCSF standards of care please refer to UCSF <a href="#">Standard Operating Procedures (SOP)*</a>, <a href="#">Guidelines**</a>, <a href="#">Policies***</a> and <a href="#">IACUC Office Fact Sheets****</a></p>	<p>Animals subjected to procedures that cause no pain or distress, or only momentary or slight pain or distress and do not require the use of pain-relieving drugs***** <b>no clinical or health issues</b></p>	<p>Animals subjected to potentially painful or stressful procedures for which they receive appropriate anesthetics, analgesics and/or tranquilizer drugs <b>[or nonpharmaceutical methods of relief]</b></p>	<p>Animals subjected to potentially painful or stressful procedures that are not relieved with anesthetics, analgesics and/or tranquilizer drugs <b>[or nonpharmaceutical methods of relief]</b>. Withholding anesthesia/analgesia <b>[or other form of relief]</b> must be scientifically justified in writing and approved by the IACUC</p>
<b>Husbandry Activities</b>			
Most basic husbandry activities such as breeding, holding, weighing, observations, ear notching/punching, injectable microchipping, point or automated tattooing, tail snips in mice ≤ 21 days old	X		
<b>Drug administration and blood/fluid collections</b>			
Most basic injections or oral administrations and blood or fluid collection techniques that incur none or only momentary pain/distress or restraint (manual or anesthetic) performed per approved <b>UCSF SOP*</b>	X		
Retro-orbital injection and/or blood collection		X	
Hydrodynamic delivery in anesthetized mice		X	X (if no anesthesia)
<b>Behavioral Assays and Tests</b>			
Non-invasive or low-impact tests such as voluntary locomotor, cognitive, and/or emotional tests (eg. open field, rotarod, spatial mazes, place, social, or food/fluid preference tests, elevated mazes).	X		
Minimally invasive, escapable, or predictable aversive tests: passive avoidance with escapable shock, allodynia/hyperalgesia tests (e.g. hot plate, tail flick, Von Frey), Morris Water Maze, fear conditioning with escapable or predictable shocks	X		
Forced or inescapable aversive stimuli testing (eg. tail suspension, forced swim, fear conditioning with inescapable or unpredictable shocks, sleep deprivation, resident/intruder assays, chronic unpredictable mild stress, forced exercise)			X
<b>Euthanasia</b>			
Euthanasia followed by postmortem physical verification (per <b>UCSF Policy***</b> )	X		
<b>Surgery</b>			
Non-survival surgeries (including perfusions), major or minor survival surgeries with potential pain/distress treated with vet-recommended intra- and post-operative analgesia		X	
Major or minor survival surgeries, as described above, where potential pain/distress is <b>NOT</b> treated per vet-recommendation			X
<b>Induced disease models</b>			
Genetically engineered and/or chemically and/or surgically induced models with no clinical phenotype and/or a phenotype that does not cause pain and/or distress	X		
Genetically engineered and/or chemically and/or surgically induced phenotype that causes pain or distress (eg. Hindlimb ischemia, EAE, stroke, LPS, bleomycin) that will <b>NOT</b> be alleviated at first appearance of pain and/or distress (eg. hunched posture, BCS = or < than 2...).			X

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Genetically engineered and/or chemically and/or surgically induced phenotype that causes pain and/or distress (eg. Hindlimb ischemia, EAE, stroke, LPS, bleomycin) that <b>IS</b> alleviated at first appearance of pain and/or distress (eg. hunched posture, BCS = or < than 2...).		X	
Behavioral models of depression or anxiety induced by aversive stimuli (eg. Environmental or social)			X
<b>Tumors</b>			
non-surgically induced or spontaneous tumors within <b>UCSF guideline**</b> endpoints (depending on the model)	X	X	
induced or spontaneous tumors >2cm in any direction, ulceration, or models affecting normal function or causing unalleviated pain or distress			X
<b>Environmental factors</b>			
Environmental conditions outside of the standard of care		X	X (extreme models (eg. hypoxia, cold...))
Absence of environmental enrichment (based on duration and model as described in the <b>Environmental Enrichment and Social Housing Policy***</b> )		X	X
Momentary restraint	X		
Prolonged restraint within parameters described in <b>IACUC office Fact Sheet****</b> (eg. duration, acclimation, criteria for removal...)		X	
<b>Food regulation</b>			
meeting criteria of standard of care ( <b>per SOP*</b> )	X		
outside of standard of care ( <b>per SOP*</b> )			X
<b>Fluid regulation</b>			
meeting criteria of standard of care ( <b>per SOP*</b> )	X		
outside of standard of care ( <b>per SOP*</b> )			X