



**ANIMAL CARE AND USE COMMITTEE MINISTRY OF HEALTH (ACUC-MOH FORM)**

**Application for Ethics Approval for Research Projects**

1. Please refer to the **GUIDELINES TO ETHICAL CONDUCT IN THE CARE AND USE OF ANIMALS FOR SCIENTIFIC PURPOSES IN MINISTRY OF HEALTH (MOH) INSTITUTIONS AND FACILITIES (MOH-AG)**.
2. Please complete the application form in accordance to the guideline. Incomplete applications will be returned to the applicant resulting in delay in the granting of approval.
3. A typewritten application for **Ethics Approval for Testing Involving Animals form (ACUC 02 (R)/2023)** shall be submitted for approval.
4. All applications shall include: -
  - i. A complete research proposal that include the procedural part that uses animals in research.
  - ii. Gantt chart - highlight the part involving animals only.
  - iii. **Recommended at least three (3) recent** articles used for literature review as a guide in terms of use **animal breed, number of animals, and procedures carried out on animals**.
  - iv. Certificate/declaration if the animal used is a type of living modified organisms (LMOs) according to the definition of the Biosafety Act 2007.
5. All application need to be submitted to:

**Secretary**  
**Animal Care and Use Committee (ACUC)**  
**Ministry of Health, Malaysia (MOH)**  
**c/o Laboratory Animal Resource Unit**  
**Special Resource Centre, Institute for Medical Research**  
**Jalan Pahang, 50588 Kuala Lumpur**  
**Tel: 03-26162750**  
**Email: acuc-moh@moh.gov.my**
6. The applicants are responsible to ensure that all facets of animal care and use meet the requirement of the Guidelines to ethical conduct in the care and use of animals for scientific purposes in Ministry of Health (MOH) institutions and facilities (MOH-AG)
7. The Code of Practice embodies the principle of the 3R's (reduction, replacement and refinement of animal use) which are important to be considered when designing and carrying out scientific activities.
8. Approval from ACUC-MOH will be based on the duration of the approved research project and not exceeding the limits specified by Animal Welfare Act 2015.
9. The approval of ACUC-MOH is valid only for any activities to be carried out by MOH personnel and facilities.
10. A Final Report pertaining to animal work is required to be submitted at the end of the purpose of completion or extension of the scientific activities. In addition, applicants may also apply for renewal by sending a Continuation letter before expiry.



**JAWATANKUASA PENGGUNAAN & PENJAGAAN HAIWAN (ACUC)  
KEMENTERIAN KESIHATAN MALAYSIA (MOH)  
ANIMAL CARE AND USE COMMITTEE MINISTRY OF HEALTH (ACUC-MOH)**

**BORANG PERMOHONAN KELULUSAN  
ETIKA PENGGUNAAN HAIWAN DALAM PROJEK PENYELIDIKAN  
(ETHICS APPROVAL FOR RESEARCH PROJECTS FORM)**

<b>1. MAKLUMAT PEMOHON (KETUA PENYELIDIK) APPLICANT'S INFORMATION (PRINCIPAL INVESTIGATOR)</b>	
<b>NAMA</b> <i>NAME</i>	
<b>JAWATAN / GRED</b> <i>POSITION / GRADE</i>	
<b>ALAMAT PEJABAT</b> <i>OFFICE ADDRESS</i>	
<b>NO TELEFON</b> <i>TELEPHONE NUMBER</i>	
<b>E-MEL</b> <i>E-MAIL</i>	
<b>BERPENGALAMAN / TERLATIH UNTUK MENGENDALIKAN HAIWAN</b> <i>EXPERIENCE / TRAINED WORKING WITH ANIMALS</i>	
<b>YA / TIDAK</b> <i>YES / NO</i>	

**2. BUTIRAN MAKLUMAT PENYELIDIK BERSAMA & AHLI PENYELIDIK YANG TERLIBAT MENJALANKAN PROSEDUR KERJA SEPANJANG KAJIAN DIJALANKAN**  
**INFORMATION ON CO-INVESTIGATOR AND RESEARCH PERSONNEL INVOLVED**

<b>Bil. No.</b>	<b>Nama dan alamat Name and address</b>	<b>Jawatan Position</b>	<b>No telefon/ e-mel Telephone / e-mail</b>	<b>Berpengalaman / Terlatih untuk mengendalikan haiwan Experience / trained working with animals</b>  YA / TIDAK YES / NO

*\*Latar Belakang Penyelidik berkaitan dengan (i) penyelidikan (ii) penggunaan haiwan makmal dan (iii) latihan yang berkaitan*

*\*\*sila lampirkan muka surat tambahan jika ruang ini tidak mencukupi*

*\*Information(s) regarding investigator(s) in (i) research (ii) animal work and (iii) training on animal use*

*\*\*Please attach additional pages if required*

**3. KETERANGAN MENGENAI PROJEK YANG AKAN MELIBATKAN PENGGUNAAN HAIWAN MAKMAL**  
**INFORMATION REGARDING ANIMAL PROCEDURE**

<b>TAJUK</b> <i>TITLE</i>	
<b>OBJEKTIF</b> <i>OBJECTIVE</i>	

<p><b>NO. RUJUKAN PROJEK YANG DILULUSKAN OLEH INSTITUSI</b></p> <p><b>PROJECT REFERENCE NUMBER APPROVED BY THE INSTITUTIONS</b></p>	
<p><b>SILA SERTAKAN SALINAN SURAT KELULUSAN CADANGAN PROJEK / NO. RUJUKAN PROJEK DARI INSTITUT TUAN/PUAN</b></p> <p><b>PLEASE ATTACH A COPY OF APPROVAL LETTER OF PROJECT PROPOSAL / PROJECT REFERENCE NUMBER FROM THE INSTITUTE SIR/MADAM</b></p>	
<p><b>TARIKH MULA</b></p> <p><i>START DATE</i></p>	
<p><b>TARIKH AKHIR</b></p> <p><i>END DATE</i></p>	

<p><b>4. ADAKAH PROJEK INI TELAH DIBINCANG DENGAN PEGAWAI VETERINAR?</b> <i>HAS THE PROJECT BEEN DISCUSSED WITH THE VETERINARY OFFICER?</i></p>			
	<p><b>Ya</b> <i>Yes</i></p>		<p><b>Tidak</b> <i>No</i></p>
<p><b>NAMA PEGAWAI VETERINAR BERTUGAS</b> <i>ATTENDING VETERINARIAN</i></p>			

<b>5. MAKLUMAT MENGENAI HAIWAN YANG AKAN DIGUNAKAN</b> <i>INFORMATION ON THE ANIMAL USED</i>	
<b>5.1</b>	<b>Spesis / strain atau stok haiwan</b>  <i>Species / animal stock or strain</i>
<b>5.2</b>	<b>Adakah permit/ lesen diperlukan bagi penggunaan haiwan yang dinyatakan diatas?</b> <i>Is a permit/license required for the use of animals mentioned above?</i>
	Jika <b>YA</b> , nyatakan no. permit/ lesen yang diperolehi dari Jabatan berkenaan  <i>If YES, state the permit / license number obtained from the concerned Department</i>
<b>5.3</b>	<b>Umur</b> <i>Age</i>
<b>5.4</b>	<b>Jantina</b> <i>Sex</i>
<b>5.5</b>	<b>Berat</b> <i>Animal weight</i>
<b>5.6</b>	<b>Jumlah</b> <i>Total number animal</i>
<b>5.7</b>	<b>Terangkan bagaimana jumlah bilangan haiwan yang akan digunakan ditentukan.</b>  <b>contoh : 6 ekor x 3 ujikaji x 2</b>

	<p><b>pengulangan ujikaji = 36 haiwan.</b></p> <p><b>(masukkan carta alir atau jadual jika perlu)</b></p> <p>Explain how the total number of animals to be used was determine.</p> <p>E.g : 6 animals x 3 treatments x 2 replicates = 36 animals.</p> <p>(include a flow chart or table if necessary)</p>	
<b>5.8</b>	<p><b>Sumber haiwan diperolehi</b> <i>Animal source</i></p>	
<b>5.9</b>	<p><b>Lokasi penyelidikan yang akan dijalankan</b> <i>Research facility</i></p>	
<b>5.10</b>	<p><b>Kaedah pengangkutan haiwan ke lokasi penyelidikan</b> <i>Transportation to research facility</i></p>	

<b>6. PENJAGAAN HAIWAN SEPANJANG PROJEK PENYELIDIKAN</b> <i>ANIMAL CARE</i>						
<b>Suhu bilik / tempat penyimpanan haiwan</b> <i>Room / Animal storage temperature</i>						
<b>Jenis sangkar</b> <i>Type of cage</i>		Plastik <i>Plastic</i>		Logam <i>Metal</i>		Akuarium <i>Aquarium</i>
		Tangki		<i>Individual Ventilated Cage (IVC)</i>		

		<i>Tank</i>		
	Lain-lain. Sila nyatakan : <i>Others. Please specify :</i>			
<b>Kepadatan stok haiwan di dalam satu sangkar</b> <i>Stocking density</i>	Untuk Akuakultur, sila nyatakan saiz & isipadu ruang penyimpanan haiwan: <i>For aquaculture, specify the size and volume for animal storage:</i>			
<b>Bahan alas sangkar</b> <i>Bedding</i>				
<b>Kekerapan menukar alas sangkar</b> Frequency of bedding changes				
<b>Makanan</b> <i>Feed</i>				
<b>Sumber air minuman</b> <i>Water source</i>				

**7. KETERANGAN MENGENAI PROJEK PENYELIDIKAN YANG AKAN MELIBATKAN PENGGUNAAN HAIWAN MAKMAL.**  
*DESCRIPTION ON RESEARCH PROJECT INVOLVING THE USE OF LABORATORY ANIMALS.*

**7.2 Latar belakang ringkas dan kewajaran projek penyelidikan serta prosedur yang akan dilakukan ke atas haiwan termasuk penjagaan haiwan pra, semasa dan pasca projek\* (Penerangan secara *layman* dan mudah difahami) :**

*Brief background and appropriateness of diagnostic testing and procedures that will be performed on animals including animal care pre, during and after the project\* (Explanation in layman's terms and easy to understand):*

**7.2** Terangkan justifikasi penggunaan haiwan dalam projek penyelidikan ini  
*Justify the use of animals in the research project*

**7.3** Berikan ringkasan prosedur ke atas haiwan dalam bentuk carta alir\*  
*Make a summary of the procedure on the animal in the form of flow chart\**

**7.4** Adakah penyelidikan ini melibatkan bahan-bahan toksik yang berjadual:  
*Does testing involve the use of*

Ya; Nyatakan: \_\_\_\_\_  
*Yes; State*

Tidak  
*No*



<i>scheduled toxic substances:</i>	
<p><b>7.5 Adakah penyelidikan ini melibatkan agen-agen berjangkit:</b></p> <p><i>Does this research project involve use of infectious agents:</i></p>	<p><input type="checkbox"/> Ya; Nyatakan: _____ Yes; State</p> <p><input type="checkbox"/> Tidak No</p>
<p><b>7.6 Adakah penyelidikan ini melibatkan haiwan jenis LMO:</b></p> <p><i>Does the research involved animal(s) from LMO (Living Modified Organism):</i></p>	<p><input type="checkbox"/> Ya; Nyatakan : _____ Yes; State <i>* sila kepilkan sijil deklarasi</i> <i>* please attached declaration certificate</i></p> <p><input type="checkbox"/> Tidak No</p>
<p><b>7.7 Sila nyatakan “Takat Akhir Haiwan” (Humane End-Point) yang dijangkakan dalam penyelidikan ini:</b></p> <p><i>Please specify and list the possible “Humane End-Point” for animal(s) used in this research project:</i></p>	

## 8. SENARAI PERALATAN, UBATAN DAN LAIN-LAIN BAHAN KIMIA / REAGEN YANG AKAN DIGUNAKAN KE ATAS HAIWAN

*LIST OF EQUIPMENT / INSTRUMENT, DRUG AND OTHER CHEMICALS / REAGENTS THAT WILL BE USE ON THE ANIMAL*

### 8.1 Senarai peralatan

*List of equipment / instrument*

<b>Bil. No.</b>	<b>Nama Peralatan</b> <i>Equipments / instruments</i>

### 8.2 Ubat pelali (anaesthetic)

*Anesthetic drug*

<b>Bil. No.</b>	<b>Nama Ubat Drug</b>	<b>Kepekatan Concentration (e.g: mg/ml)</b>	<b>Dos Dosage (mg/kg)</b>	<b>Cara ubat diberikan Route of administration (e.g: intramuscular, intraperitoneal, subcutaneous, etc.)</b>

**8.3 Bahan kimia/reagent***Chemical name / reagent*

<b>Bil. No.</b>	<b>Nama bahan kimia / reagent Chemical name / reagent</b>	<b>Kepekatan Concentration (e.g: mg/ml)</b>	<b>Dos Dosage (mg/kg)</b>	<b>Cara diberikan kepada haiwan Route of administration (e.g: intramuscular, intraperitoneal, subcutaneous, etc.)</b>

**8.4 Nyatakan apa yang akan berlaku kepada haiwan selepas tamat projek penyelidikan?***(Please explain the status of animals after the end of research project)*

<b>Kuantiti spesis (species quantity)</b>	<b>Untuk dikekalkan/dijual/didermakan/ dipindahkan/digunakan (to be retained / sold to/ donated to/transfer to/ adopted by) (specify location or to/by whom and purpose if animal are retained)</b>	<b>Untuk dimatikan (to be euthanized)</b> <b>Pembuangan bangkai (carcass disposal)</b>

<p style="text-align: center;"><b>9. KLASIFIKASI PROJEK PENYELIDIKAN</b>  <b>CLASSIFICATION OF RESEARCH PROJECT</b>  <i>Tandakan (X) pada ruangan kotak yang disediakan</i>  <i>Mark (X) in the box provided</i></p>		
Kategori yang dipilih <i>Category chosen</i>	Categories	Examples and Comments
	<p><b>Category A</b>  Experiments involving either no living materials or use of no living materials or use of plants, bacteria, protozoa, or invertebrate animal species.</p>	<p>Biochemical, botanical, bacteriological, microbiological, or invertebrate animal studies, tissue cultures, studies on tissues obtained from autopsy or from slaughterhouse, studies on embryonated eggs, invertebrate animals have nervous systems and respond to noxious stimuli, and therefore must also be treated humanely.</p>
	<p><b>Category B</b>  Experiments on vertebrate animal species that are expected to produce little or no discomfort.</p>	<p>Mere holding of animals captive for experimental purposes; simple procedures such as injections of relatively harmless substances and blood sampling; physical examinations; experiments on completely anesthetized animals which do not regain consciousness; food/water deprivation for short periods (a few hours); standard methods of euthanasia that induce rapid unconsciousness, such as anesthetic overdose or decapitation preceded by sedation or light anesthesia.</p>
	<p><b>Category C</b>  Experiments that involve some minor stress or pain (short-duration pain) to vertebrate animal species.</p>	<p>Exposure of blood vessels or implantation of chronic catheters with anesthesia; behavioral experiments on awake animals that involve short-term stressful restraint; immunization employing Freud's adjuvant; noxious stimuli from which escape is possible; surgical procedures under anesthesia that may result in some minor post-surgical discomfort. Category C procedures incur additional concern in proportion to the degree and duration of unavoidable stress or discomfort.</p>
	<p><b>Category D</b>  Experiments that involve significant but unavoidable stress or pain to vertebrate animal species.</p>	<p>Deliberate induction of behavioral stress in order to test its effect; major surgical procedure under anesthesia that result in significant post-operative discomfort; induction of an anatomical or physiological deficit that will result in pain or distress; application of noxious stimuli from which escape is impossible; prolonged periods (up to several hours or more) of physical restraint; maternal deprivation with substitution of punitive surrogates; induction of aggression; procedures that produce pain</p>

		in which anesthetics are not used, such as toxicity testing with death as end point; production of radiation sickness, certain injections, and stress and shock research that would result in pain approaching the pain tolerance threshold i.e. the point at which intense emotional reactions occur. Category D experiments present an explicit responsibility on the investigator to explore alternative designs to ensure that animal distress is minimized or eliminated.
	<p><b>Category E</b> Procedures that involve inflicting severe pain near, at, or above the pain tolerance threshold of unanesthetized, conscious animals.</p>	Use of muscle relaxants or paralytic drugs such as succinyl choline or other curariform drugs used alone for surgical restraint without the use of anesthetics; severe burn or trauma infliction on unanesthetized animals; attempts to induce psychotic-like behavior; killing by use of microwave ovens designed for domestic kitchens or by strychnine; inescapably severe stress or terminal stress. Category E experiments are considered highly questionable or unacceptable irrespective of the significance of anticipated results. Many of these procedures are specifically prohibited in national policies and therefore may result in withdrawal of federal funds and/or institutional USDA registration.

**10. DENGAN INI SAYA JUGA MENGAJUKAN BAHAWA SAYA TELAH MEMBACA AKTA KEBAJIKAN HAIWAN 2015, DAN MEMATUHI SEMUA SYARAT PENGGUNAAN HAIWAN YANG DITETAPKAN BAWAH AKTA INI DAN PERATURAN-PERATURAN YANG BERKAITAN.**

**I, HEREBY DECLARE THAT I HAVE READ THE ANIMAL WELFARE ACT 2015, AND COMPLY TO ALL THE CONDITIONS FOR THE USE OF ANIMALS SET UNDER THIS ACT AND OTHER RELATED REGULATIONS.**

\_\_\_\_\_  
Tarikh:  
Date:

\_\_\_\_\_  
(Cop dan tandatangan Ketua Penyelidik)  
(Stamp and signature of Principal Investigator)

**UNTUK KEGUNAAN JAWATANKUASA ACUC-MOH**  
**FOR ACUC-MOH USE ONLY**

Tarikh borang diterima : \_\_\_\_\_  
*Date of form received*

Keputusan Jawatankuasa Penjagaan dan Penggunaan Haiwan, Kementerian Kesihatan Malaysia  
*Decision of Ministry of Health Animal Care and Use Committee*

- Diluluskan / *Approved*
- Diluluskan dengan pembedulan kecil / *Approved pending with minor modification*
- Kelulusan ditangguhkan untuk justifikasi dan penjelasan / *Withhold approval pending justification and clarification*
- Tidak diluluskan / *Not approved*

Tarikh kelulusan dibuat : \_\_\_\_\_  
*Date of approval*

No. rujukan kelulusan ACUC-MOH: \_\_\_\_\_  
*Ref. No. of ACUC-MOH approval*