

Meeting Minutes

Atlanta CDC IACUC Meeting  
October 16, 2019  
Skype Meeting  
12:00 PM

(b)(6) Voting members present: [redacted]

(b)(6) Voting members absent: [redacted]

(b)(6) Alternate members present: [redacted]

(b)(6) Office: [redacted]

[The CDC Atlanta IACUC has 14 voting members; therefore, 8 members represent a quorum of the committee.]

The meeting was called to order by the Chairperson at 12:03 PM.

Agenda Item # 1-Protocol review:

Original:

(b)(6) **“3054” Estimation of respirable aerosols detected during poultry slaughtering and defeathering in Bangladeshi urban live bird markets**

PI: [redacted]

Species: Chicken

USDA category: E

Number of animals: 750

Location: Bangladesh

The IACUC discussed this protocol in which the PI aims to estimate the amount of respirable aerosol particles produced during: 1) slaughtering chickens in cones, open barrels, and closed barrels; and 2) defeathering chickens in a defeathering machine with the top uncovered, half-closed by hinged lid, partially closed by a lid with a hole, fully closed by a square plate with a hole and pivot door in the middle, and fully closed by a slidable dish. The second aim is to explore advantages and disadvantages and perceived practical utility of different slaughtering and defeathering methods among the live bird market (LBM) workers.

The IACUC reviewed this protocol and had some questions. It was not clear to the Committee how this protocol was different than the external protocol that the Committee approved in May 2018; there appeared to be some overlap, and the IACUC would like the PI to clarify the differences. The IACUC questioned the value of doing these experiments outside of the LBM setting and requests that the PI expand on why a laboratory setting is required. The PI should check if there are any permit requirements for transporting chickens within Bangladesh. The IACUC questioned the use of an air-conditioned laboratory space for the first part of the study, as

the temperature and humidity of a room can change aerosol transmission. The Committee would like the PI to consider stunning the animals prior to exsanguination to be in line with the AVMA Guidelines on Euthanasia. The Committee felt stunned animals would still have involuntary movements and would still provide useful information to the investigators on relative amounts of aerosol transmission. The IACUC would like the PI to clarify if the animals are going to be eaten or disposed of after the study, since halal slaughter would not be required if the animals were not eaten. The IACUC also requests that the PI clarify if the animals will be fully dead prior to defeathering. The Committee voted to return the protocol for modifications to be reviewed via FCR (8 in favor, 0 opposed).

The meeting was adjourned at 12:48 PM.

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Meeting Minutes

Atlanta CDC IACUC Meeting  
November 4, 2019  
Roybal, Building 19, Room 255  
12:30 PM

Voting members present: (b)(6) (phone) (b)(6) (phone)

Voting members absent: (b)(6)

Alternate members present: (b)(6) (voting for (b)(6))

(b)(6) Office: (b)(6)

Guests: (b)(6) (OLSS) (b)(6) (CMB), (b)(6) (DHCPP)

[The CDC Atlanta IACUC has 13 voting members; therefore, 7 members represent a quorum of the committee.]

The meeting was called to order by the Chairperson at 12:37PM.

(b)(6) introduced herself. CMB introduced their extern (b)(6)

Agenda Item # 1-Protocols approved since last meeting:

**Originals**

3008 (b)(6) COWX (DMR) 3054 (b)(6) GUIC (FCR/DMR)  
3036 (b)(6) MULX (FCR)

**Amendments**

2836 (b)(6) RATC-A2 (DMR)  
2895 (b)(6) RATC-A2 (DMR)  
3000 (b)(6) MONC-A1 (FCR/DMR)

**Annual Reviews**

2804 (b)(6) MONC-A3 (VVC)  
2814 (b)(6) MOUC-A4  
2834 (b)(6) GUIC-A4  
2837 (b)(6) BATX-A4  
2840 (b)(6) MOUC-A5  
2884 (b)(6) FERC-A2  
2902 (b)(6) RABC-A4  
2904 (b)(6) RABC-A2  
2905 (b)(6) MOUC-A3 (VVC)  
2914 (b)(6) MULC-A6 (VVC)

2956 (b)(6) HAMC-A1  
2958 (b)(6) GUIC-A2 (VVC)  
2959 (b)(6) MULX  
2979 (b)(6) RABC-A1  
2982 (b)(6) BATC

2833 (b)(6) GUIC-A3



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2849 <input type="checkbox"/> FERC-A3	2915 <input type="checkbox"/> MOUC-A1	2987 <input type="checkbox"/> GOAL-A3
2875 <input type="checkbox"/> MOUC-A3 (DMR)	2918 <input type="checkbox"/> MOUC-A5	3004 <input type="checkbox"/> MOUC
2881 <input type="checkbox"/> MOUC-A3	2923 <input type="checkbox"/> MONC	3007 <input type="checkbox"/> GOAL
2882 <input type="checkbox"/> BATC	2943 <input type="checkbox"/> MULX-A2	3028 <input type="checkbox"/> RABC

**Agenda Item # 2-Review of the minutes:**

The minutes from the 10/09/2019 meeting were discussed and approved (9 in favor, 0 opposed, 1 member abstained).

The minutes from the 10/16/2019 meeting were discussed and approved (9 in favor, 0 opposed, 1 member abstained).

**Agenda Item # 3-Review of actions items:**

**\*\*Action items will be reviewed at each meeting.\*\***

1. "The IACUC Administrator will include the mechanism of approval for all protocols moving forward." Mechanism for approval of protocols has been included on the agenda and in the minutes.
2.
3. "The IACUC discussed and had two action items on this issue: 1) the PI and CMB care team should ensure that enrichment of the calf is a priority and that human interaction requirements are specified in the IACUC protocol; and 2) CMB will make sure that the fleece rubbing board is at a height where the calf can interact with it. Any needed amendments should be made prior to the arrival of the next calf." The IACUC Administrator will ask the PI to include human interaction specifically on the protocol. The fleece board will be placed at the correct height for the next calf.
4. "ACUPO will compose the letter to the IO to be signed within 60 days of the inspections." The letter was composed and signed.
5. "The Committee decided to continue revisions and table the vote on this policy [020, Social housing of NHPs] until the November meeting." The policy will be discussed during the QA portion of the meeting.
6. "The CMB Deputy Branch Chief agreed to work with the PI doing tick studies to put a justification in writing for the use of live animals for tick feeding." **The CMB Deputy Branch Chief reports that this is in progress.**

7. "The CMB Deputy Branch Chief will send it [the article on buprenorphine] to ACUPO so that it can be distributed to PIs." The article was sent to ACUPO during the meeting, and ACUPO will distribute it.

**Agenda Item # 4-Protocol review:**

**Originals:**

(b)(6)  
"3054" Estimation of respirable aerosols detected during poultry slaughtering and defeathering in Bangladeshi urban live bird markets

PI: [redacted]

Species: Chicken

USDA category: E

Number of animals: 750

Location: Bangladesh

The IACUC discussed this returned protocol in which the PI aims to estimate the amount of respirable aerosol particles produced during: 1) slaughtering chickens in cones, open barrels, and closed barrels; and 2) defeathering chickens in a defeathering machine with the top uncovered, half-closed by hinged lid, partially closed by a lid with a hole, fully closed by a square plate with a hole and pivot door in the middle, and fully closed by a slidable dish. The second aim is to explore advantages and disadvantages and perceived practical utility of different slaughtering and defeathering methods among the live bird market (LBM) workers.

The IACUC reviewed this returned protocol and still had some questions. The Committee would like the PI to itemize out the group size, including details such as how many pieces of equipment will be used and number animals per piece. They would like to see more details than just 675 animals. In the sections containing discussion of halal slaughter, the IACUC requests to see documentation of the requirement for halal slaughter in this situation. The PI should include any pertinent Bangladeshi laws or regulations that prevent other methods of slaughter from being used. The Committee felt the PI needed to do a better job of justifying the use of live animals to evaluate relative differences between the methods of slaughter, versus alternative methods. The Committee recommends the researchers consider the use of an aerosol generating device inside pieces of equipment and then putting samplers outside of the equipment to evaluate differences. If this cannot be done, stronger justification for why should be included. In the literature search, the PI should narrow down the citations to those which are referenced, not a full bibliography. Under section 8.3, the IACUC requests that the PI select yes, the animals might be subjected to more than momentary pain or discomfort; the PI can then include their justification for halal slaughter below. In the study description, the PI should include a detailed description of the method of halal slaughter as found in the Ag Guide. Under Hazardous Agents, the PI should include a note that proper PPE will be worn to protect workers in case any birds appearing healthy are actually shedding influenza virus. The Committee voted to return the protocol for modifications to be reviewed via FCR (10 in favor, 0 opposed).



(b)(6)

**“3020” Determination of the Infectivity, Pathogenesis, and Tissue Distribution of *Dracunculus medinensis* in the Rhesus macaque**

PI: [REDACTED]  
Species: NHP  
USDA category: D  
Number of animals: 5  
Location: Roybal 23

The IACUC discussed this returned protocol in which the PI aims to determine whether it is possible to successfully infect rhesus macaques with *Dracunculus medinensis*. He plans to expose five animals to infective parasites using a gastric tube, collect baseline sera as well as a serum sample each month after infection up to a year, use ultrasound to try and detect developing worms, and euthanize the animals prior to worm emergence to harvest the parasites for development of additional diagnostic tools. Guinea worm disease is considered a neglected tropical disease and eradication efforts have not yet been successful, so this protocol hopes to develop new tools for early detection of guinea worm and speed efforts to eradicate it.

The IACUC reviewed this protocol and had some remaining questions. The PI did not address why human antibodies cannot be used to create a human serological test. The IACUC also requests that the PI include the wording “dull mentation” under Euthanasia criteria. The Committee voted to return the protocol with modifications to be reviewed via DMR (9 in favor, 0 opposed, 1 member abstained due to association with the protocol).

(b)(4)

(b)(6)

**Amendments**

**“3024” Experimental evaluation of [REDACTED] as a potential antiviral in hamsters infected with Rabies.**

PI: [REDACTED]  
Species: Hamster  
USDA Category: D/E  
Number of animals: 115/35  
Location: Roybal 23

The IACUC discussed this annual review and amendment to the protocol in which the PI would like to add a weekly blood collection in all the groups during the length of the study to better monitor antibody response. They propose to bleed half of the group (5 animals per group) one week and the other half of the group the following week so the animals have a blood collection every other week. They also want to test the drug via intranasal (IN) route instead of orally, based on the literature and recent findings from their collaborations that have shown that [REDACTED] is not very well absorbed orally. (b)(4)

The IACUC reviewed this amended annual review and thought it was well written. The reviewer would like the PI to include why morbidity and mortality were lower than expected in the annual review. The IACUC would also like the PI to include more information on survivorship in various groups. The PI should update the date of the vet consult. The Committee voted to return the protocol with modifications to be reviewed by the Administrator (10 in favor, 0 opposed).

(b)(6)

**“3002” Pharmacokinetic and pharmacodynamic profile of antiretroviral drugs administered systemically in macaques**

PI:   
Species: NHP - Rhesus, Pigtail  
USDA category: D  
Number of animals: 156  
Location: Roybal 23

The IACUC discussed this annual review and amendment to the protocol in which the PI would like to change social housing status to 2G while on a particular study. Additionally, the PI wants to include additional details in the procedures to collect skin biopsies after the implants are removed. A maximum of 4 skin biopsies will be collected at the end of the study; a punch biopsy (<3mm) will be obtained directly over or near the implant site for histopathology examination of toxicity and drug levels. Tissue apposition of this area will be achieved using a single absorbable suture.

The IACUC reviewed this amended annual review and thought it was well written. The PI should make the number of skin biopsies allowed consistent throughout the protocol and include a pain scale for swelling and erythema. The Committee voted to return the protocol with modifications to be reviewed via DMR (9 in favor, 0 opposed, 1 member abstained due to association with the protocol).

(b)(6)

**“2986” Vectored Immunoprophylaxis for HIV Prevention and Treatment**

PI:   
Species: NHP - Rhesus  
USDA category: D  
Number of animals: 30  
Location: Roybal 23

(b)(6)

The IACUC discussed this annual review and amendment to the protocol in which the PI would like to amend the study design, updating the study described under Objective 1 to include the following:

(b)(4)

Collection of lymph node biosies before and after the treatment intervention to assess the effects of treatment on the latent virus reservoir.

The IACUC reviewed this amended annual review and thought it was well written. The PI needs to check the box for surgery in the protocol. The Committee voted to return the protocol with modifications to be reviewed by the Administrator (9 in favor, 0 opposed, 1 member abstained due to association with the protocol).



**Agenda Item # 5- HCL Update:**

**Decon/Maintenance**

1. The [redacted] is being decontaminated on November 5.
2. No other maintenance is scheduled for December because the vivarium is large enough that it usually spills over into December.

**Animal Occupancy**

1. [redacted] had a mouse study in their space.
2. Prior to the vivarium going down for maintenance, flu had ferret work active.
3. [redacted] and Flu both have ongoing studies in their [redacted] level spaces.

**Agenda Item # 6- CMB Update:**

**Social housing of NHPs:** Over the last month there was one socialization that lasted about a week and one re-pairing. There are three potential pairings for the next month.

**Other updates:**

- [redacted] accepted the position of SCV in CMB.
- [redacted] are in study mode for the ACLAM boards.
- There will be a steam shutdown on Wednesday in building 23 when ambient temps are 55 degrees in order to repair the system. It should not impact animal rooms but CMB is preparing with extra heaters just in case.
- The CMB behavior team took a field trip to the Aquarium which was very interesting.
- WiFi nodes are being installed in the Vivarium any day now.

**Agenda Item # 7- Post Approval Monitoring (PAM) update:**

3015 [redacted] MOUC-A1, 10/15/2019, [redacted] and [redacted] BSL-4 study in HCL lab. Viewed under Monkey camera in [redacted] 1 office. Characterization of [redacted] disease pathogenesis in humanized mice. Daily health checks, inject saline fluids, [redacted] to aid in blood collection, ID scanning, body weights, deep sedation with Isoflurane, terminal blood collections, intra-cardially, cervical dislocation as secondary method of euthanization, then hand off to other associates for further processing in bio-safety cabinet.

**Recommendations-** None.

**Commendable Items-** Nice technical and veterinary skills, nice animal handling, nice command of BSL-4 laboratory safety excellent teamwork, and nice recordkeeping.

2902 [redacted] RABC-A4, 10/24, and 10/28/2019 [redacted]  
[redacted] Collect Body weights, anesthetize with Ketamine/Xylazine, IM, blood collection for PCV, IFA, administer Beuthanasia IV to rabbits and observe for cessation of breathing and lack of heartbeat. Observe controlled substances log sheet, all fine.



**Recommendations-** None.

**Commendable Items-** Nice technical skills, great teamwork, animals handled with care. Good animal recordkeeping.

**Agenda Item # 8 -Training:**

(b)(6) The IACUC Administrator discussed the recently released GAO Report "ANIMAL USE IN RESEARCH" and the Committee discussed the development and promotion of alternatives to use of animals in research at CDC.

(b)(6) left the meeting at 2:15PM.]

**Agenda Item # 9-Quality Assurance:**

- The IACUC reviewed the Report to the IO and signed the coversheet.
- The IACUC reviewed and discussed Policy 020: Social Housing of Nonhuman Primates and other Laboratory Animals. The IACUC voted to approve the policy with documented changes (9 in favor, 0 opposed).

**Agenda Item # 10-Other Business:**

There was another unexpected hatching in the Influenza Division. Two sets of eggs were placed in an incubator, one marked 10/4 and one 10/14. Eggs are inoculated at 10 days and those that are unused are chilled at the next delivery time, twice a week, to prevent further development. A technician mistook 10/4 for 10/14 and left the older eggs in the incubator. Multiple chicks hatched. Once discovered, the animals were all humanely euthanized by CMB veterinarians via decapitation. Out of 150 eggs, 100 were viable enough to require euthanasia. As the hatching was not planned, the animals were not on a protocol. All of the ID's SOPs were amended to no longer use a slash and instead use a dash to prevent confusion. The IACUC voted to report the incident to OLAW as a deviation because the animals were not on an approved protocol (9 in favor, 0 opposed).

The IACUC tentatively agreed to hold the December meeting offsite on December 13.

The meeting was adjourned at 2:38 PM.

**CDC-ATLANTA IACUC  
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**Meeting Minutes**

Atlanta CDC IACUC Meeting  
December 13, 2019  
Off-campus  
12:00 PM

Voting members present: (b)(6)

Voting members absent: (b)(6)

Alternate members present (b)(6) (voting for (b)(6), (b)(6) voted once for (b)(6)

ACUPO Office: (b)(6)

Guests: (b)(6)

[The CDC Atlanta IACUC has 14 voting members; therefore, 8 members represent a quorum of the committee.]

The meeting was called to order by the Chairperson at 12:04PM.

**Agenda Item # 1-Protocols approved since last meeting:**

**Originals**

3020 (b)(6) MONC (FCR/DMR)

**Amendments**

2833 (b)(6) GUIC-A4 (admin - associate)

293 (b)(6) MOUC-A4 (admin - add mice)

3004 (b)(6) MOUC-A1 (admin - language)

3024 (b)(6) HAMC-A4 (VVC)

**Annual Reviews**

278 (b)(6) MOUC-A3

279 (b)(6) AMC-A2

2828 (b)(6) MOUC-A3

2832 (b)(6) MOUC-A3

283 (b)(6) RATC-A2

2852 (b)(6) MONC-A1

2872 (b)(6) OUC-A1 (DMR)

2897 (b)(6) MONC

290 (b)(6) RATC-A1

2913 (b)(6) FERC-A1

2916 (b)(6) PRAC-A2

291 (b)(6) MULC-A1

2928 (b)(6) MULC-A3

292 (b)(6) MULX-A5 (VVC)



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(b)(6)			
(b)(6)			
(b)(6)			
(b)(6)	2885	FERC-A6	2930 (b)(6) MOUC-A1
(b)(6)	2888	MOUC-A3	2933 (b)(6) PRAC-A2
(b)(6)	2891	FERC-A7 (DMR)	2934 (b)(6) RABC-A1
(b)(6)	2894	MOUC-A4	2938 (b)(6) PRAX
(b)(6)	2895	RATC-A2 (VVC)	2939 (b)(6) MOUC-A3
(b)(6)	2944	MONC-A1 (VVC)	2994 (b)(6) MULC
(b)(6)	2949	MULX-A1	2996 (b)(6) MOUC
(b)(6)	2957	RATC	2998 (b)(6) MULX
(b)(6)	2963	GOAX	3000 (b)(6) MONC-A1
(b)(6)	2972	MULX	3001 (b)(6) MULX-A1
(b)(6)	2985	HAMC-A1	3006 (b)(6) HAMC-A1
(b)(6)	2988	MONC	3013 (b)(6) MULL-A2
(b)(6)	2989	MULC	3019 (b)(6) BATL-A7
(b)(6)	2990	MULC	3021 (b)(6) MULC-A4
(b)(6)	2991	MULC	3024 (b)(6) MONC-A1 (VVC)
(b)(6)	2992	MULC	3032 (b)(6) PRAC-A1
(b)(6)	2993	(b)(6) MULX-A1	3043 (b)(6) MOUC-A1
(b)(6)	2823	MOUC-A2	
(b)(6)	2976	MOUC-A1	

## Agenda Item # 2-Review of the minutes:

The minutes from the 11/04/2019 meeting were discussed and approved (7 in favor, 0 opposed, 1 member abstained, 3 members had not yet joined the meeting).

## Agenda Item # 3-Review of actions items:

**\*\*Action items will be reviewed at each meeting.\*\***

1. "The CMB Deputy Branch Chief agreed to work with the PI doing tick studies to put a justification in writing for the use of live animals for tick feeding. The CMB Deputy Branch Chief reports that this is in progress." **It is still in progress.**

☐ joined the meeting at 12:07PM.]

2. "The CMB Deputy Branch Chief will send it [the article on buprenorphine] to ACUPO so that it can be distributed to PIs." The article was sent to ACUPO and distributed to animal users.
3. "The IACUC voted to report the [egg hatching] incident to OLAW as a deviation because the animals were not on an approved protocol." The letter to OLAW is being drafted and will be sent soon.

(b)(6) joined the meeting at 12:12PM.]

**Agenda Item # 4-Protocol review:**

**Originals:**

(b)(6) **"3054" Estimation of respirable aerosols detected during poultry slaughtering and defeathering in Bangladeshi urban live bird markets**

PI: (b)(6)

Species: Chicken

USDA category: E

Number of animals: 750

Location: Bangladesh

The IACUC discussed this returned protocol in which the PI aims to estimate the amount of respirable aerosol particles produced during: 1) slaughtering chickens in cones, open barrels, and closed barrels; and 2) defeathering chickens in a defeathering machine with the top uncovered, half-closed by hinged lid, partially closed by a lid with a hole, fully closed by a square plate with a hole and pivot door in the middle, and fully closed by a slidable dish. The second aim is to explore advantages and disadvantages and perceived practical utility of different slaughtering and defeathering methods among the live bird market (LBM) workers.

The IACUC reviewed this returned protocol and still had some questions. The PI should fill out the responsibilities of the listed protocol associate. Throughout the protocol, the PI should remove the "From the PI" statements and repetition. Under alleviation of pain, the IACUC would like the PI to remove the statement that the birds will be released on the ground. Under study description, figures are referenced, but there are no attachments; the PI should add all of the attachments or remove reference to them. The IACUC requests that the PI include a statement that the animals awaiting slaughter will be separated from those being slaughtered. The PI can just cite reference 50 and does not need to include quotes from the reference, just the full citation. The IACUC would like the PI to include the 30 second time limit to be rendered insensitive in the description of halal slaughter. Under 'Precautions', in order to cover unknown bacterial pathogens, the last part of the sentence should read: "...in case any of the healthy appearing birds are shedding influenza virus or bacterial pathogens." Additionally, the work practices should be changed to ABSL-2 to protect from potential pathogenic microorganisms. The Committee voted to return the protocol for modifications to be reviewed via DMR (9 in favor, 0 opposed, 1 member abstained).

**"3070" Immunoprophylaxis with Broadly Neutralizing Antibodies for the Prevention of HIV Infection**



PI: [REDACTED]  
Species: NHP  
USDA category: D  
Number of animals: 9  
Location: Roybal 23

The IACUC discussed this renewal protocol in which the PI aims to evaluate the protective efficacy that passively administered bNAb (b)(4) confers against vaginal SHIV acquisition in DMPA-treated pigtail macaques exhibiting concurrent vaginal sexually transmitted infections with *C. trachomatis*, *T. vaginalis* and *T. pallidum*, as compared to no-antibody controls, and to define the plasma level of (b)(4) that correlates with protection.

The IACUC reviewed this protocol and thought it was well written. The PI should correct the building location listed in the protocol. Under proposed activities, it says that the blood volume collected may be up to 6.6ml/kg/month, but the table under Details of blood/body fluid collections says less than 6ml/kg/month, so this needs to be made consistent. The PI should include information on B virus under hazardous agents and include the potential laboratory routes of infection for the various agents. The Committee voted to return the protocol with modifications to be reviewed by the Administrator (10 in favor, 0 opposed).

### Amendments

#### **“2905” Antibody Production in Mice**

PI: [REDACTED]  
Species: Mouse  
USDA Category: D/E  
Number of animals: 230/200  
Location: Roybal 18/23

The IACUC discussed this amendment to the protocol in which the PI would like to (1) Increase total animal number on protocol (reflected in species info and study description); (2) Add animals under category E designation; and (3) Update language in description of proposed activities to allow "up to 4" subcutaneous immunization inoculations (up to 200 uL each) – the protocol previously had 4 listed as the only option.

The IACUC reviewed this amendment and thought it was well written. Under study description, the PI should change the wording to allow for “up to” 4 inoculations as mentioned in the amendment. The Committee voted to return the protocol with modifications to be reviewed by the Administrator (10 in favor, 0 opposed).

#### **“2956” Defective interfering particle therapeutic efficacy in small animal models of**

(b)(3):42  
U.S.C. §

(b)(3):42  
U.S.C. §

PI: [REDACTED]

Species: Hamster  
USDA category: D/E  
Number of animals: 1070/2700  
Location: Roybal 23

The IACUC discussed this amendment to the protocol. Initial studies on the protocol have demonstrated that defective interfering particles (TIPs) can improve outcome in (b)(3):42 U.S.C. § 262a(b)(1)(F) infected hamsters. The PI proposes to amend the protocol to include additional aims and has increased animal numbers and added additional agents to support these investigations. The experimental questions to be addressed are: (1) How long are TIPs stable in the hamster? (2) How does immune stimulation contribute to protection? And (3) Can (b)(3):42 TIPs protect against related viruses? Can (b)(3):42 TIPs protect against unrelated viruses? In addition, the PI added animal numbers for AIM 4, that were not initially included in authorized amounts.

The IACUC reviewed this amendment and had a few questions. Under Study description, under aim 7 the IACUC would like the PI to clarify whether all 3 routes of treatment/infection will be assessed for top 4 candidates or if it is only the routes found to show optimum therapeutic effect that will be tested. Under post infection treatment monitoring, the last sentence seems to indicate that "animals are weighed a minimum of once weekly," but taken less frequently if stable (every other day or every few days); the PI should clarify whether this is the intended weighing regime or if they mean "a minimum of once daily." Section 11.6 states that TIPs may be given from once up to every other day, but an IACUC member felt that was not indicated clearly in this section; the IACUC requests that the PI amend language to detail this treatment schedule if that is the intended schedule. Under blood/body fluids collections, nasal swabs should be added. The Committee voted to return the protocol with modifications to be reviewed via DMR (10 in favor, 0 opposed).

(b)(6)

### Interim Review

#### **"3023" Macaque models of acute HIV infection and cure**

PI:   
Species: NHP - Rhesus  
USDA category: D  
Number of animals: 33  
Location: Roybal 23

The IACUC discussed this annual review and amendment to the protocol in which the PI would like to a) to add a lighter plane of anesthesia to our protocol for minor procedures (e.g. blood collection); b) to add CD8 T cell depletion to this protocol to determine if a viral reservoir is still present and has the potential to be reactivated if immune pressures are relieved; and c) to collect lymph node biopsies one month apart rather than 3 months apart.

The IACUC reviewed this amended annual review and thought it was well written. The PI needs to amend the study description with the updated schedule of biopsies included in the amendment. The IACUC would also like the PI to clarify the schedule of biopsies under Collection of blood/body fluids. The Committee voted to return the protocol with modifications to be reviewed by the Administrator (10 in favor, 0 opposed).



**Agenda Item #5 - Other Business:**

There was an incident in the [redacted] reported to the IACUC. On 11/7/2019 [redacted] personnel observed that the bioislator cage system in the lab may not have been plugged in, and that the animals appeared to be in distress. At the time the cage system contained nine cages with a total of 42 animals. The [redacted] staff member was unable to access the lab space, and relayed the problem to the HCL manager, who relayed it to the lab staff. Lab personnel responded immediately upon notification by the HCL manager and rescued the animals; however, 3 of the 42 animals had already expired due to hypoxia. The remaining 39 animals were directly monitored for approximately 2 hours after rescue and periodic monitoring continued throughout the day. At the end of the day the remaining animals appeared to have completely recovered; however, one additional animal was found deceased on 11/8/2019, presumably from after-effects of hypoxia. Upon investigation, it was determined that the cage system had likely been unplugged during the lab's annual shutdown in July for painting and was never plugged in again once the shutdown had concluded. Since the cage system is typically plugged in at all times, and this was the first cohort of animals present in the lab after the shutdown, lab staff did not realize that the cage system was unplugged when the animals were initially placed in the unit. In addition, it was discovered on 11/7 that [redacted] staff no longer had card reader access to the facility, so they were unable to respond to the incident directly, which delayed the rescue until the lab staff were notified. It remains unclear how and when the [redacted] staff lost access to the biometric reader, but their access has since been restored. Further investigation discovered discrepancies between program and [redacted] SOPs for husbandry for the lab space. [redacted] met with the [redacted] program staff on the morning of 12/13 and clearly delineated the responsibilities for each. Moving forward [redacted] (not the program) will place animals received into the cages to make the sure cages are plugged in. There was a training on Tuesday afternoon for [redacted] HCL staff on the entrance requirements for the [redacted] lab. Additionally, the program is developing a checklist for receiving animals to ensure no steps are missed. The [redacted] lab card readers are notorious for software glitches that remove people, but it's not clear why this keeps happening; [redacted] will work with [redacted] to make sure access is maintained. The IACUC recommended the program choose a second Select Agent PI for the protocol. The IACUC voted to report the incident to OLAW as an adverse event (10 in favor, 0 opposed).

**Agenda Item # 6- CMB Update:**

Social housing of NHPs: There were no new socializations over the last month.

- The IACUC discussed a request from CMB for a temporary exemption to cage space requirements for 4 cynomolgus macaques. CMB would like to use a different kind of caging to better facilitate attempts at socially housing 4 cynos together; the new caging allows for better view of the animals' facial expressions and allows animals to groom each other. They are currently in two pairs of two and CMB is trying to group house them into a group of four. As such, they would like to move two pairs into two quad cages side by side. Although the new caging provides the same overall cage space, some of this space is located under the perch and as such can't be counted, so the space comes in just under the requirement of 8.6sqft each. The Committee voted to allow this exemption for these 4



NHPs for a maximum of one month (9 in favor, 0 opposed, 1 member [redacted] had left the meeting briefly).

- We recently received 28 new NHPs; they are in quarantine and CMB will begin pairing them on Monday. None of them were previously paired with each other. They include 8 female pigtail macaques ages 3-11, and 20 male rhesus macaques ages 5-12.

Other updates:

- CMB resident [redacted] had his paper accepted and is now eligible to take his ACLAM boards next year.
- The cow at Lawrenceville has developed clinical problems and the decision was made to euthanize her to prevent any suffering. She will be euthanized on Saturday, 12/14 and her necropsy will be performed by CMB veterinary staff in conjunction with the program.

**Agenda Item #7 - HCL Update:**

**Decon/Maintenance**

1. (b)(3):42 U.S.C. § 262a(h)(1)(E) maintenance is ongoing and finishing up.
2. The next two suites to come down for annual maintenance are one of (b)(3):42 U.S.C. § 262a(h)(1)(E) in January (6th) and (b)(3):42 U.S.C. § 262a(h)(1)(E) in February (Jan 27th).

**Animal Occupancy**

1. (b)(3):42 U.S.C. § 262a(h)(1)(E) had a mouse study in their space that was completed. More mice will be transferred in after the holidays.
2. (b)(3):42 U.S.C. § 262a(h)(1)(E) and Flu both have ongoing studies in their (b)(3):42 U.S.C. § 262a(h)(1)(E) level spaces.

**Agenda Item #8 – PAM Update:**

3002 [redacted] MONC-A2,, 8/07 and 11/06/19, [redacted]

Pharmacokinetic and pharmacodynamic profile of antiretroviral drugs administered systemically in macaques. 8/07/19- Anesthetize animals with Ketamine, IM, body weights, blood, vaginal swabs, anal swabs, photos of implant, retrieval of implant due to bursting, inside of the animal's arm, and biopsy of ulcerative lesions. This was a surgical procedure that [redacted] and [redacted] performed in the surgical suite on [redacted] and I were both there to observe the surgical procedure and [redacted] was given retrieved implant. 11/06/19- Anesthetize animals with Ketamine, IM. Collection of blood samples, photos of implants.

**Recommendations-** None.

**Commendable Items** Great technical and veterinary skills, excellent teamwork, animals handled with care, nice record keeping, animal and protocol training records. I am very happy to have this day of observing electronic animal records come to fruition. Great job, CMB!

3023 [redacted] MONC, 10/03 and 10/15/2019, [redacted]

[redacted] 10/03/19- Administration of ice cream cones containing drug inside of edible taste masking substance, designed to make the drug more



(b)(6)

palatable to animals. Animals who didn't eat ice cream cones within 15 to 20 minutes after administering to them will need to have the ice cream cones carefully retrieved by [redacted] or other (b)(6) staff member, and then they will receive SQ injection of drug. 10/15/2019- Anesthetization with Ketamine, IM, blood collection.

(b)(6)

**Recommendations:** None.

**Commendable Items-** Nice technical skills, animals handled with care, great teamwork, nice animal electronic health records. (11/18/2019 observed with [redacted] from (b)(6) has grown into an excellent Non-Human Primate Animal Care Technician through the years while working at CDC.

The meeting was adjourned at 1:19 PM.