

BZ59 / ORL062
I.D. PROJECT CODE

CALIFORNIA PRIMATE
RESEARCH CENTER

[REDACTED]
INVESTIGATOR REQUESTOR
ANIMAL DATA [REDACTED]

ROOM CAGE

48
□ VIRAL PRECAUTION

MMU [REDACTED]
ANIMAL I.D.

3 / 8 / 19
DATE OF SAMPLE

F 1 YR 11 MO 6.9 KG
SEX AGE WEIGHT

PROCEDURE IS: DIAGNOSTIC AID COLONY MANAGEMENT EXPERIMENTAL

CLINICAL SIGNS / PROBLEMS: <input type="checkbox"/> DIARRHEA <i>Sexual d/c from B. fellax</i>		PRIOR THERAPY <input type="checkbox"/> NO <input type="checkbox"/> YES LIST ALL AGENTS:							
HOSPITALIZED <input type="checkbox"/> YES <input type="checkbox"/>		SOURCE OF SPECIMEN(S) <i>Sexual d/c.</i>							
CULTURES REQUESTED <input type="checkbox"/> ENTERIC SCREEN SHIGELLA, YERSINIA, SALMONELLA <input type="checkbox"/> CAMPYLOBACTER <input type="checkbox"/> YERSINIA (CLINICAL) <input checked="" type="checkbox"/> AEROBIC <input checked="" type="checkbox"/> ANAEROBIC <input type="checkbox"/> FUNGI/YEAST <input type="checkbox"/> LISTERIA <input type="checkbox"/> OTHER	NEGATIVE RESULT <input type="checkbox"/> NEGATIVE <input type="checkbox"/> NO GROWTH								
	DIRECT MICROSCOPIC EXAMINATION								
	ORGANISMS IDENTIFIED								
	1. <i>3/11 4+ STaph coagulase positive</i>								
	2. <i>3/11 An aerobic 1+ Fusobacterium sp.</i>								
	3.								
	4.								
	5.								
	6.								
	7.								
8.									
□ SENSITIVITY TO ANTIMICROBIAL AGENTS: KIRBY-BAUER									
ORGANISM NUMBER	DOXYCYCLINE (DO 30)	AZITHROMYCIN (AZM 15)	CEFAZOLIN (CZ 30)	CEFTRIAXONE (CRO 30)	ENROFLOXACIN (ENO 5)	NEOMYCIN (N 30)	PENICILLIN (P 10)	SULFA/TRIMETH (SXT 25)	VANCOMYCIN (VA 30)
1			5	5		0%	5		5

REPORTED BY: [REDACTED]

REPORT DATE: *3/12/19*

CLINICAL MICROBIOLOGY

Post Operative monitoring record

Date: 12/17/18

Animal# MMU

Procedure: cranial implants

	<u>Date</u>						
General Observations	12/18	12/19	12/20/18	12/21/18	12/22	12/23	12/24
Appetite	P/F	F	P/F	P/F	F	G	G
Hydration	G	G	G	G	G	G	C
Stool	N	N	B/N	N	N	N	N
Incision	CDI	CDI	CDI	Instruct	CDI	CDI	CDI
Score							
Physiologic parameters							
Pupils							
Normal	0	○	○	○	○		
Dilated	2						
Respiratory Rate							
Eupenic	0	○	○	○	○		
Tachypnea	2						
Mucous membranes							
Pink	0	○	○	○	○		
Pale	2						
Posture							
Sitting/standing upright	0	○	○	○	○		
Hunched posture	1						
Head between knees	2						
Sitting, legs extended	2						
Recumbent	3						
Fetal position	3						
Activity							
Moving normally in cage	0	○	○	○	○		
Attention to wound	1						
Guarding wound	2						
Restless/pacing	2						
Lack of interest in environment	2						
Shivering/teeth grinding	3						
Immobile	3						
Ataxia, uncoordinated movement	3						
Vocalization							
Vocalizes when stimulated	0						
Lack of vocalization	0	○	○	○	○		
Loud vocalization	3						
High pitched vocalization	3						
Post-operative Score	0	○	○	○	○		
Initials:							

revised 7/2017

UCD 0330

prior to sedation
(awake)

sedated

STP pHox Ultra

Printed: 12/24/2018 08:06:48 AM
Analyzed: 12/24/2018 08:04:33 AM
Analyzer ID: Z11818060N

Barometer 766.7 mmHg
Sample Type Venous
Operator: 123456
Releaser: auto
Patient ID: [REDACTED]
Patient Name:

Sample Profile

STP pHox Ultra

Printed: 12/24/2018 09:11:56 AM
Analyzed: 12/24/2018 09:09:43 AM
Analyzer ID: Z11818060N

Barometer 766.8 mmHg
Sample Type Venous
Operator: 123456
Releaser: auto
Patient ID: mmu [REDACTED]
Patient Name:

Other Flags

Other Flags

Comments

Comments

Test	Value	Units	Flags
pH	7.186		
pCO2	92.6	mmHg	
pO2	52.7	mmHg	
SO2%	67.8		
Hct	41	%	
Hb	13.5	g/dL	
Na+	156.3	mmol/L	
K+	5.98	mmol/L	
Cl-	109.3	mmol/L	
Ca++	1.36	mmol/L	
Mg++	0.84	mmol/L	
Glu	79	mg/dL	
Lac	16.4	mmol/L	
BUN	21	mg/dL	
Creat	1.0	mg/dL	
TCO2	38.2	mmol/L	
nCa	1.21	mmol/L	
nMg	0.73	mmol/L	
Gap	11.6	mmol/L	
Ca++/Mg++	1.6	mol/mol	
BUN/Creat	21.5	mg/mg	
BE-ecf	6.9	mmol/L	
BE-b	4.5	mmol/L	
SBC	27.8	mmol/L	
HCO3-	35.4	mmol/L	
P50	31.1	mmHg	
O2Cap	18.7	mL/dL	
O2Ct	12.9	mL/dL	
A			

Test	Value	Units	Flags
pH	7.423		
pCO2	49.6	mmHg	
pO2	64.7	mmHg	
SO2%	90.3		
Hct	35	%	
Hb	11.8	g/dL	
Na+	141.2	mmol/L	
K+	3.67	mmol/L	
Cl-	102.4	mmol/L	
Ca++	1.25	mmol/L	
Mg++	0.65	mmol/L	
Glu	78	mg/dL	
Lac	0.8	mmol/L	
BUN	17	mg/dL	
Creat	0.9	mg/dL	
TCO2	34.3	mmol/L	
nCa	1.26	mmol/L	
nMg	0.66	mmol/L	
Gap	6.0	mmol/L	
Ca++/Mg++	1.9	mol/mol	
BUN/Creat	19.8	mg/mg	
BE-ecf	8.1	mmol/L	
BE-b	7.8	mmol/L	
SBC	31.4	mmol/L	
HCO3-	32.7	mmol/L	
P50	26.9	mmHg	
O2Cap	16.4	mL/dL	
O2Ct	15.0	mL/dL	
A			
Osm			

5852

PZSA / NW02
ID. PROJECT CODE

[REDACTED] INVESTIGATOR [REDACTED] REQUESTOR

ANIMAL DATA: [REDACTED]
ROOM CAGE

PROCEDURE IS: DIAGNOSTIC AID

CALIFORNIA PRIMATE RESEARCH CENTER

VIRAL PRECAUTION

MML [REDACTED]
ANIMAL I.D.

12 / 17 / 18
DATE OF SAMPLE

F 7 YR 8 MO 6.40 KG
SEX AGE WEIGHT

COLONY MANAGEMENT

EXPERIMENTAL

CLINICAL SIGNS / PROBLEMS:

Pre . Sx

PRIOR THERAPY NO YES

HOSPITALIZED NO YES

ROOM CAGE

FACS

CD4= / μ l

3-4-8-20

CD8= / μ l

4- COLOR

Special Panel

CD4/CD8 RATIO=

BLEEDING CONDITIONS: Squeezed - limb pulled Caught on run Fasted hrs Anesthetized other

X COMPLETE BLOOD COUNT: ELECTRONIC CELL COUNT, SMEAR EVALUATION, PLASMA PROTEIN, FIBRINOGEN

ELECTRONIC CELL COUNT

SMEAR EVALUATION: TOTAL WBC X 10³ / μ l
 CORRECTED WBC X 10³ / μ l

PLATELETS:

ADEQUATE

- DECREASED +1 +2 +3
- INCREASED +1 +2 +3
- LARGE PLATELETS
- CLUMPED

ERYTHROCYTE MORPHOLOGY:

- ESSENTIALLY NORMAL
- HYPOCHROMASIA +1 +2 +3 +4
- POLYCHROMASIA +1 +2 +3 +4
- LEPTOCYTOSIS +1 +2 +3 +4
- POIKILOCYTOSIS +1 +2 +3 +4
- ANISOCYTOSIS +1 +2 +3 +4
- ROULEAUX +1 +2 +3 +4

WBC

6.5

X 10³ / μ l

DIFFERENTIAL

%

/ μ l

RBC

5.20

X 10⁶ / μ l

METAMYEOCYTES

HEMOGLOBIN

13.0

gm/dl

BAND NEUTROPHILS

HEMATOCRIT

38.6

%

SEG. NEUTROPHILS

61

3905

MCV

74

fl

LYMPHOCYTES

39

2535

MCH

25.1

pg

MONOCYTES

MCHC

33.7

pg/fl

EOSINOPHILS

PLATELETS

2.32

X 10⁵ / μ l

BASOPHILS

RETICULOCYTES

%

X 10⁵ / μ l

OTHER

PCV (CENTRIFUGED)

%

NRBC/100 WBC

PLASMA PROTEIN

7.6

gm/dl

COMMENTS: PARTIALLY CLOTTED SAMPLE

PLASMA COLOR:

- NO ABNORMALITIES
- HEMOLYZED
- ICTERIC
- LIPEMIC

FIBRINOGEN

200

mg/dl

REPORTED BY: [REDACTED]

REPORT DATE: 12/17/18

CLINICAL

HEMATOLOGY

B259, NRWZ
I.D. PROJECT CODE

I.D. PROJECT CODE

CALIFORNIA PRIMATE RESEARCH CENTER

INVESTIGATOR BEQUESTOR

ANIMAL DATA: [REDACTED] ROOM [REDACTED] CAGE

PROCEDURE IS: DIAGNOSTIC AID COLONY MANAGEMENT

EXPERIMENTAL

VIRAL PRECAUTION

MILL ■
ANIMAL I.D.

ANIMAL I.D.

12/17/18

DATE OF SAMPLE

SEX AGE WEIGHT

7 YR 8 MO 6.60 KG

CLINICAL SIGNS / PROBLEMS: <i>pre- Neuro Sx</i>	PRIOR THERAPY LIST ALL AGENTS:
HOSPITALIZED NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	TIME DRAWN _____ AM PM
ROOM _____ CAGE _____	TEMP _____ °C

DIETARY STATUS: UNKNOWN FED FASTED HOURS _____ COMMENTS: _____

SAMPLE: SERUM HEPARINIZED PLASMA CITRATED BLOOD URINE SAMPLE COLOR: NO ABNORMALITIES
 HEMOLYZED ICTERIC LIPEMIC
 PANEL: PP2 PP3 CHEM 20 SPECIAL PANELS CLINICAL SERUM BANK
 (ARRANGE WITH LAB) BOX SLOT

REPORTED BY

DATE: 12/17/18

CLINICAL BIOCHEMISTRY

CALIFORNIA PRIMATE RESEARCH CENTER INTERVENTION / SURGERY		PROJECT: NRL02	ANIMAL SP ID# MMU [REDACTED]	DATE OF EVENT MO DAY YR 12 17 18
PROCEDURE: Cranial Implant		ROOM: [REDACTED]	AGE: 7y 8m	
INVESTIGATOR: [REDACTED]		CAGE: [REDACTED]	SEX: F	
REQUESTOR: [REDACTED]		W/O: 3899	WT: 6.4 kg	
SNOMED CODES		CODED BY: cm	SNOMED TERMS	
Circle one: Experimental (XI) / Colony (SN)				
T-10101	P-yy444	Craniotomy		
T-10101	P-1000	Surgical Incision		
T-X2070, T-X2080	P-Y8971	L/R Recording Device Implantation		
T-X2070, T-X2080	P-YY041	L/R Electrophysiology Readings		
T-10101	P-1640	Surgical closure		
DESCRIPTION OF PROCEDURES PERFORMED				
<p>Procedure: Electrode insertion survivability study</p> <p>Animal prepared for surgery in normal manner. Once sedated thoroughly on isoflurane, fentanyl and propofol, the animal's head was placed into the stereotaxic frame. The head was steriley prepped. Midline incision made approximately 6cm in length. Fascia incised and temporalis muscle elevated bilaterally from temporal ridges. Twenty millimeters anterolateral to bregma, burr holes were made bilaterally using a cranial perforator. Exposed dura was incised and reflected anteriorly. Electrode implants were placed using investigational robotics. Gelfoam and titanium plate were used to seal burr hole. This process was repeated on the right hemisphere. Two separate stab incisions were made 1.5cm off midline in the posterior portion of the exposure and transcutaneous ports were passed through the incision. The main midline incision was closed in an inverted, interrupted fashion using 3-0 vicryl in the fascia. The skin was closed using a running subcuticular stich using 4-0 monocryl. Electrophysiology was undertaken. Animal removed from stereotax and monitored.</p>				
<p>Estimated blood loss: minimal (<2cc).</p>				
TIME IN: 8:54 AM	POST OPERATIVE CARE:			
	Hydromorphone TID Q4h x3 days			
	Buprenex SID (pm dose only) x3 days			
	Dexamethasone SID x7 days			
	Cefazolin BID x7 days			
	Omeprazole SID x7 days			
	Famotidine SID x3 days Levetiracetam BID x7 days			
SURGEON: [REDACTED]	ASSISTANT: [REDACTED]	ANESTHETIST: [REDACTED]		

Animal Chart

Data Entry

Surgery

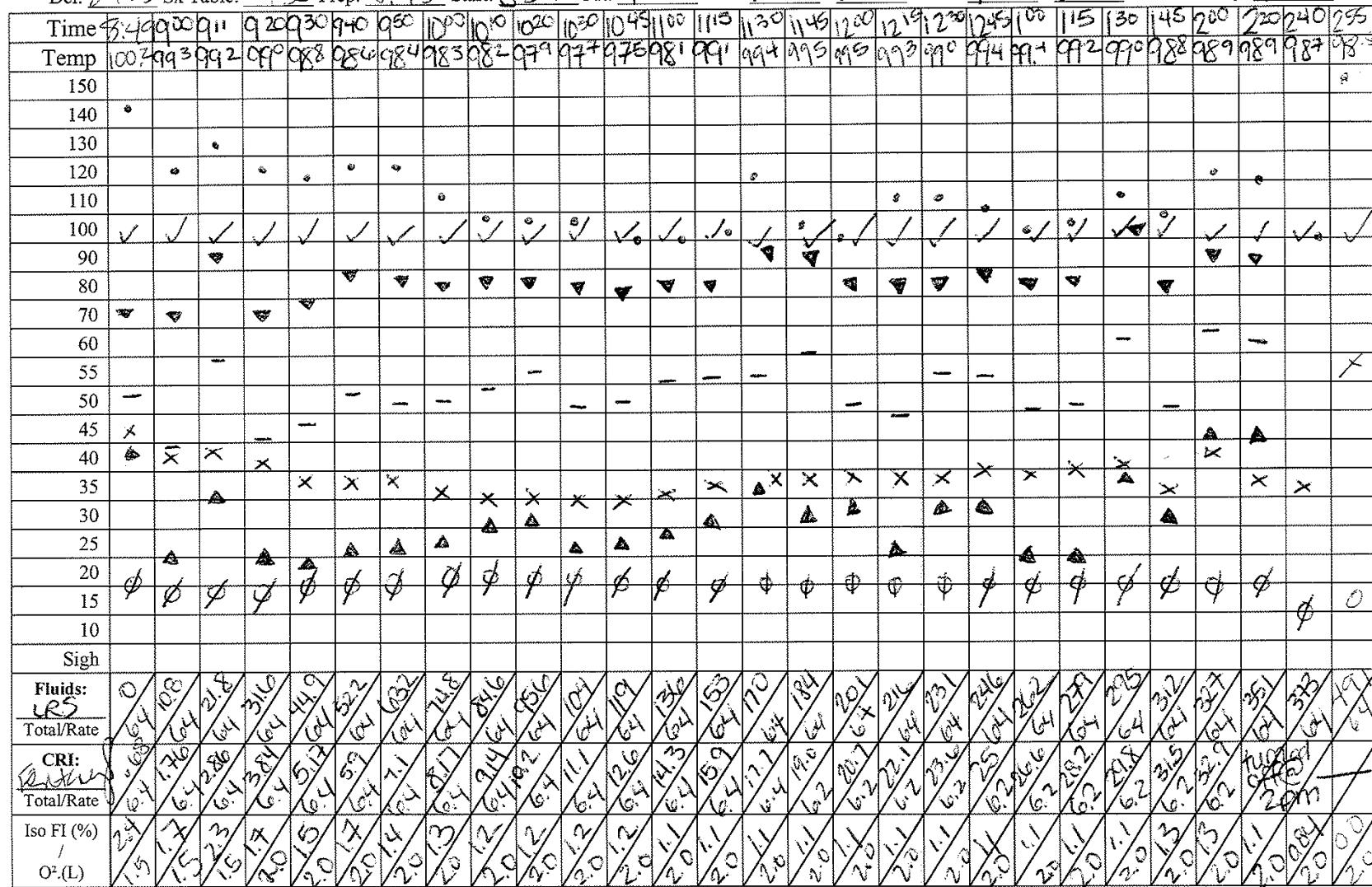
Requestor Veterinarian

California National Primate Research Center: Anesthesia Monitoring Sheet
 Animal: MMU Home Room: [REDACTED] Date: 12/17/1X Age: 7/8M Sex: M (F) Wt. (Kg) 6.70
 Procedure: Cranial implant ET Tube Size: 5.0 Investigator: [REDACTED] W/O#: 3899 Project/ID: NRL02/BZ59

Dexmedetomidine
0.70mL
1mL @ 8.2cm

Pre-Anesthesia:	Dose/Amount:	Route:	Time:	Intra-Op:	Dose/Amount:	Route:	Time:
Atropine	0.60mL	IM	815	Cefazolin	0.50mL	IV	856, 1052, 1250
Famotidine	0.33mL	IM	820	Hydromorphone	0.10mL	IM	215
Levetiracetam	2.0mL	PO	820	Cerenia	0.70mL	SQ	220

Del: 8:15 Sx Table: 8:30 Prep: 8:43 Start: 854 Cut: 903 Proc: 1003 - 142 Close: 142 - 2" Full Recovery: 259



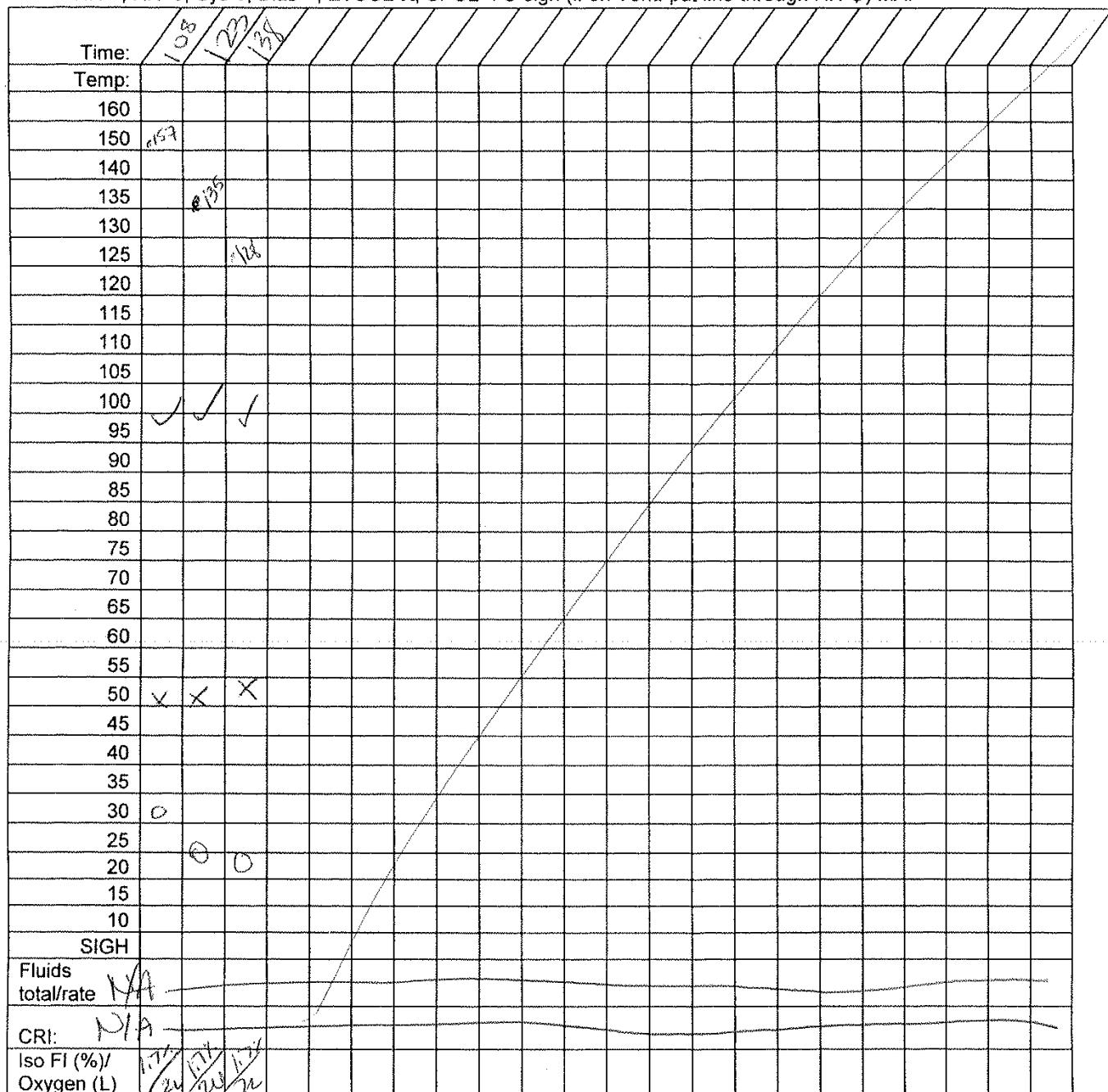
California National Primate Research Center Anesthesia Monitoring

pg. 1 of 1

Animal Species and Number: Macaque Home Room: ██████████ Date: 12/13/15
 Wt (kg): 6.6 Age: 7 yrs Sex: M/F Procedure: MRI ET Tube size: 5.0mm
 Investigator: ██████████ W/O# 3872 Project: UKL02 IV Catheter Placement: ip

Pre-Anes Drug:	Dose /Amt:	Route:	Time:	Intra-op. Drugs:	Dose/Amt:	Route:	Time:
Urethane	0.7mls	IM	~12:45				
Ketoprofen	0.3mls	IM	~1pm				

Fluid Type C Additives: NS Temp Probe: Y/N Blood pressure Cuff: Y/N
 HR-o, RR-o, Sys-v, Dias-^, ETCO2-X, SPO2-✓ S-sigh (if on Vent. put line through RR-o) MAP -



Ketamine 100mg/mL Dexmedetomidine 0.5mg/mL Atipamezole 5mg/mL Ketoprofen 100mg/mL
 Cefazolin 330mg/mL Atropine 0.4mg/mL Oxymorphone 1.0mg/mL Buprenorphine 0.3mg/mL

Iso Fl (%)/
Oxygen (L)

PC 15 Oxytocin 20.00 Units/mL Fentanyl 50.00mcg/mL Valium 5.00mg/mL

Initials: ██████████

UCD 0336

104

BZ59 / NRL02
I.D. PROJECT CODE

INVESTIGATOR

REQUESTOR

ANIMAL DATA: [REDACTED]
ROOM CAGE

PROCEDURE IS: DIAGNOSTIC AID

CALIFORNIA PRIMATE
RESEARCH CENTER VIRAL PRECAUTION

MMU [REDACTED]

ANIMAL I.D.

1 / 11 / 18
DATE OF SAMPLEF 6 YR 9 MO 7.70
SEX AGE WEIGHT

COLONY MANAGEMENT X

EXPERIMENTAL

CLINICAL SIGNS / PROBLEMS:

Pre-project

PRIOR THERAPY NO YESHOSPITALIZED NO YES

ROOM CAGE

FACS CD4= / µl

 3-4-8-20 CD8= / µl 4- COLOR Special Panel CD4/CD8 RATIO=BLEEDING CONDITIONS: Squeezed - limb pulled Caught on run Fasted _____ hrs Anesthetized other _____

X COMPLETE BLOOD COUNT: ELECTRONIC CELL COUNT, SMEAR EVALUATION, PLASMA PROTEIN, FIBRINOGEN

<input type="checkbox"/> ELECTRONIC CELL COUNT			<input type="checkbox"/> SMEAR EVALUATION: TOTAL WBC 7.4 X 10 ³ / µl <input type="checkbox"/> CORRECTED WBC X 10 ³ / µl			PLATELETS:		
WBC	7.4	X 10 ³ / µl	DIFFERENTIAL	%	/ µl	X	ADEQUATE	
RBC	4.66	X 10 ⁶ / µl	METAMYEOCYTES			<input type="checkbox"/> DECREASED <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3		
HEMOGLOBIN	11.4	gm/dl	BAND NEUTROPHILS			<input type="checkbox"/> INCREASED <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3		
HEMATOCRIT	34.9	%	SEG. NEUTROPHILS	69	5104	<input type="checkbox"/> LARGE PLATELETS		
MCV	75	fL	LYMPHOCYTES	26	1924	<input type="checkbox"/> CLUMPED		
MCH	24.5	pg	MONOCYTES	2	148	X ERYTHROCYTE MORPHOLOGY:		
MCHC	32.7	pg/fL	EOSINOPHILS	3	222	<input type="checkbox"/> ESSENTIALLY NORMAL		
PLATELETS	2.64	X 10 ⁵ / µl	BASOPHILS			<input type="checkbox"/> HYPOCHROMASIA <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3 <input type="checkbox"/> +4		
<input type="checkbox"/> RETICULOCYTES	%	X 10 ⁵ / µl	OTHER			<input type="checkbox"/> POLYCHROMASIA <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3 <input type="checkbox"/> +4		
<input type="checkbox"/> PCV (CENTRIFUGED)	%		NRBC/100 WBC			<input type="checkbox"/> LEPTOCYTOSIS <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3 <input type="checkbox"/> +4		
<input type="checkbox"/> PLASMA PROTEIN	6.6	gm/dl	COMMENTS:	PARTIALLY CLOTTED SAMPLE <input type="checkbox"/>			<input type="checkbox"/> POIKILOCYTOSIS <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3 <input type="checkbox"/> +4	
PLASMA COLOR:	<input checked="" type="checkbox"/> NO ABNORMALITIES					<input type="checkbox"/> ANISOCYTOSIS <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3 <input type="checkbox"/> +4		
	<input type="checkbox"/> HEMOLYZED					<input type="checkbox"/> ROULEAUX <input type="checkbox"/> +1 <input type="checkbox"/> +2 <input type="checkbox"/> +3 <input type="checkbox"/> +4		
	<input type="checkbox"/> ICTERIC							
	<input type="checkbox"/> LIPEMIC							
<input type="checkbox"/> FIBRINOGEN	100	mg/dl						

REPORTED BY: [REDACTED]

REPORT DATE: 1-11-18

CLINICAL

HEMATOLOGY

BZ591, NPL02
I.D. PROJECT CODE

CALIFORNIA PRIMATE
RESEARCH CENTER

[REDACTED]
INVESTIGATOR REQUESTOR

ANIMAL DATA:
[REDACTED]
ROOM CAGE

PROCEDURE IS: DIAGNOSTIC AID COLONY MANAGEMENT EXPERIMENTAL

CLINICAL
BIOCHEMISTRY

VIRAL PRECAUTION

Muu [REDACTED]
ANIMAL I.D.

1, 11, 18

DATE OF SAMPLE

F 6 YR 9 MO 7.70
SEX AGE WEIGHT

CLINICAL SIGNS / PROBLEMS: Pre-project	PRIOR THERAPY LIST ALL AGENTS:
HOSPITALIZED NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> ROOM CAGE	TIME DRAWN AM PM TEMP °C

DIETARY STATUS: UNKNOWN FED FASTED HOURS COMMENTS:

SAMPLE: SERUM HEPARINIZED PLASMA CITRATED BLOOD URINE SAMPLE COLOR: NO ABNORMALITIES
HEMOLYZED ICTERIC LIPEMIC

PANEL: PP2 PP3 CHEM 20 SPECIAL PANELS CLINICAL SERUM BANK
(ARRANGE WITH LAB) BOX SLOT

SERUM/PLASMA								URINE						
#	✓	TEST	RESULTS	UNITS	#	✓	TEST	RESULTS	UNITS	#	✓	TEST	RESULTS	UNITS
1		SODIUM (S,HP)	144	mM/L	15		CPK (S,HP)	276	U/L	25		pH		
2		POTASSIUM (S,HP)	3.4	mM/L	16		ALK PHOS (S,HP)	188	U/L	26		SODIUM		mmol/L
3		CHLORIDE (S,HP)	109	mM/L	17		GGT (S,HP)	34	U/L	27		POTASSIUM		mmol/L
4		TCO ₂ (S,HP)	24	mM/L	18		LDH (S,HP)	199	U/L	28		CHLORIDE		mmol/L
5		ANION GAP (3+4)-(1+2)	14		19		CHOLESTEROL (S,HP)	142	mg/dl	29		PHOSPHOROUS		mg/dl
6		PHOSPHOROUS (S)	4.5	mg/dl	20		TRIGLYCERIDE (S,HP)	52	mg/dl	30		CALCIUM		mg/dl
7		CALCIUM (S,HP)	9.4	mg/dl	21		BILI TOTAL (S,HP)	0.3	mg/dl	31		MAGNESIUM		mg/dl
8		BUN (S,HP)	16	mg/dl	22		DIRECT	0.1	mg/dl	32		CREATININE		mg/dl
9		CREATININE (S,HP)	0.6	mg/dl	23		INDIRECT		mg/dl	33		MICRO PROTEIN		mg/dl
10		GLUCOSE (S,HP)	72	mg/dl	24		hsCRP	0	mg/l	34		P/C RATIO		mg/dl
11		TOTAL PROTEIN (S)	6.6	g/dl					g/dl	35		OSMOLALITY		mOsm/kg
12		ALBUMIN (S)	4.3	g/dl										
13		ALT (S,HP)	20	U/L										
14		AST (S,HP)	21	U/L										

REPORTED BY: [REDACTED]

DATE: 1-11-18

PERFORMED BY: CNPRC VMTH OTHER

CLINICAL BIOCHEMISTRY

Animal ID# [REDACTED]

California National Primate Research Center

Page # 27

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials	
3/14/19	MMU [REDACTED] F 7 yrs 11 mos 6.51 kg NRL02				DELIVERED → [REDACTED] 0.7 MLS KET W/o 4974 NRL02	[REDACTED]	
WT: 6.51	CAGE TIME 2:50	15MIN	30MIN	245MIN	1HR 1.25HR 1.5HR 1.75HR 2HR		
3/16/19	P G N	SD: BAR UPN: inf. head imp., Re: liq. stool; 6.5 chow remaining, no interest in PBS. Small amount liq. stool. SUSPECT S to abx tx. Imp. & inc. CDI.					
Fiber Inulin	2.00 chw/animal Dose	PO SID 14 Rte Freq Days					
2.00 Chew Volume Start 03-16-2019	PO SID 14 Rte Freq Days End 03-29-2019	A/P: See 3/12 entry.					
3/17/19	P G N	SD: BAR UPN: inf. head imp., Re: liq. stool; Inc + Imp. CDI animal did not eat PBS. ate fig bar offered, ate 3 chow. If reports continue, consider r/c. A/P: See 3/18 entry.					
MMU [REDACTED] F 7 yrs 11 mos 6.51 kg NRL02	MMU [REDACTED] F 7 yrs 11 mos 6.64 kg NRL02						
Clindamycin 150 mg/mL 12.50 mg/kg Dose	Cephalexin 250 mg/caplet 30.00 mg/kg Dose						
0.50 mLs Volume Start 03-18-2019	IM SID 1 Rte Freq Days End 03-18-2019	0.80 caps Volume Start 03-19-2019	PO BID 10 Rte Freq Days End 03-28-2019	Modified [REDACTED]			
MMU [REDACTED] F 7 yrs 11 mos 6.64 kg NRL02	MMU [REDACTED] F 7 yrs 11 mos 6.64 kg NRL02						
Cephalexin 250 mg/caplet 30.00 mg/kg Dose	Cephalexin 250 mg/caplet 30.00 mg/kg Dose						
0.80 caps Volume Start 03-19-2019	PO BID 0 Rte Freq Days End 03-18-2019	0.80 caps Volume Start 03-18-2019	PO BID 10 Rte Freq Days End 03-27-2019	Modified Ended [REDACTED]			
3-18-19	G G L	SO: BAR op: infected head implant. implants appear C+D. Animal active DEPA. clindamycin ends 3-18-19. Suspect liq stool caused by abx.					
3-19-19	P G L	SO: BAR op: infected head implant: implants C+D. Liquid stool confirmed. ate PBS. Appetite poor (8chan) eaten.					

(DEB. [REDACTED] 3-19-19)

Obs Form 12-16-2011

G = Good, F = Fair, P = Poor, N = Normal, SS = Semi Solid, L = Liquid, B = Bloody

UCD 0341

Animal ID# MMU [REDACTED]

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Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials						
3-12-19					P: Start PBS Start cephalixin on 3-18-19 Reunited wound on 3-19-19 when sedated for cleaning Clean twice a week Talk w/investigator for plans (need to have one by 2 weeks)							
MMU [REDACTED] 7yrs 11mos	6.64kg	F	NRL02									
Clindamycin 150 mg/mL 12.50 mg/kg Dose				83 mg Total Dose								
0.60 mLs Volume	IM TID Rte	6 Days	Start 03-12-2019 End 03-17-2019									
Weight Ovrd First dose given at 2:00 PM on 3-12-2019												
MMU [REDACTED] 7yrs 11mos	6.64kg	F	NRL02									
Cephalexin 250 mg/caplet 30.00 mg/kg Dose				199 mg Total Dose								
0.80 caps Volume	PO BID Rte	10 Days	Start 03-18-2019 End 03-27-2019									
MMU [REDACTED] 7yrs 11mos	6.64kg	F	NRL02									
Probiotic Sandwich 1.00 sndwch/animal Dose				1. sndwch Total Dose								
1.00 sndwch Volume	PO BID Rte	20 Days	Start 03-12-2019 End 03-31-2019									
MJL C-119436-WO Ins12MAR14:51 Prn12MAR14:51												
3/12/19 MMU [REDACTED]		LOCATION [REDACTED]	.7 MLS KET									
WT: 6.64		CAGE TIME	2:30	15MIN	2:30MIN	3:45MIN	1HR	1.25HR	1.5HR	1.75HR	2HR	
3/14/19												
Cranial Implant CLEANING <u>0.4</u> mls Ketamine <u>0.2</u> mls Dexmedetomidine/Atipamizole reversal or chaired cleaning Implant/post edges cleaned and hair trimmed <u>Novilon/Betadine</u> was used to clean the implant. Discharge: <u>Y</u> N <u>minimal</u> Amount of discharge: Color: <u>red cloudy</u> Additional Treatment: <u>Collected cytology per vet</u>												

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	DATE: 3-1-19 (1 sedate) (2 moving) (3 sitting up)	[REDACTED]
ANI # [REDACTED]	LOC: [REDACTED]	CAGE TIME 0min 1/2 15min 1 30min 3 45min 60min 1.25hr 1.5hr 1.75hr 2hr				
3/8/19	V.S.				Evaluate implant under sedation; (1) p/10 box small amount of granulation tissue centrally, (2) side, small (drop) of tissue closely discharge, no pocket, no tract, collect cytology + culture, clean w/ D/W/S + peer TAO	
					A: granulation tissue (2) side, recesses of/c (1) neck	
					P: result of cytology + culture pleomorphic ETM had implant	
3/8/19	MMU [REDACTED]	WT: 6.49	0.7 MLS KET/ D→ 1310	CAGE TIME 2:10	W.O. 4903 NRL02	
				15MIN 2 30MIN 3 45MIN 1HR 1.25HR 1.5HR 1.75HR 2HR		
3/8/19 6.64					Cytology (3.8.19): Moderate cellularity, large numbers of neutrophils + fewer macrophage, large numbers of extracellular large cocci + rare intracellular large cocci → Neutrophilic infiltrate w/ rare intracellular bacteria (respectably)	
					Culture (3.8.19): 1. <i>Staphylococcus</i> coagulase +, 1. <i>Fusobacterium</i> (by phone)	
					Evaluate animal when sedated for cleaning, (1) p/10 box large amount of purulent d/c w/ track from midline + over (1) implant, (2) neck - no discharge	
					A: Infected (1) cranial implant w/ purulent pocket / track	
					P: Start clindamycin for today	

Date	Weight (kg)	Appetite (G, F, P) ☺ ☻ ☻	Hydration (G, F, P) ☺ ☻ ☻	Stool (N, SS, L, B) ☺ ☻ ☻	Observations	Initials
					Animal #: [REDACTED] Room#: Ex 141-5	
2/1/19	G G N	SO: BAR, OP: Cranial implants. No facial edema, active, MM=pink, implants: criss margins: fine. Bi: Stable implants d animal			P: D/L from OP, CTM on LOP + via routine cleanings	[REDACTED]
1/25/19	G G N	SO: BAR, OP: Cranial implants : implants criss, Animal active with NED, no facial edema noted.				
2/8/19	W.B					
2/8/19		Performed cranial implant cleaning.				
		Implant clean and dry				
2/22/19	W.G					
2/22/19		SO: Rec'd in [REDACTED] per wo# 4666, NRL D2. Monitored under propofol/ketamine sedation (did/did not intubate). Cleaned implants with chlorhexidine scrub. Performed neuro recordings then returned to home cage for recovery			Shaved area around implants for better visualization. wave add. D. Sml Ket 1M.	
2/22/19	MMU [REDACTED] 0.7 MLS KET/ D->SURGERY				NRL D2 W.O. 4666	
WT: 6.91	TB TEST LEFT EYE 24HR 48HR 72HR					
	CAGE TIME 2.20 15MIN 2.30MIN 3.45MIN 1HR 1.25HR 1.5HR 1.75HR 2HR					
3-1-19	6.57	0.7cc KET → Room [REDACTED] W.O. 4760				
3/1/19		SO: Rec'd in [REDACTED] per wo# 4760, NRL D2. Monitored under propofol/ketamine sedation (did/did not intubate). Cleaned implants with chlorhexidine scrub. Performed neuro recordings then returned to home cage for recovery			Area CDF.	

O.L.E. [REDACTED] 2-5-19

Obs Form 12-16-2011

② NIA 3/1/19
G=Good, F=Fair, P=Poor, N=Normal, SS=Semi Solid, L=Liquid, B=Bloody

UCD 0344

Date	Weight (kg)	Appetite (G, F, P) ♂	Hydration (G, F, P) ♂	Stool (N, SS, L, B) ♂	Observations	Initials
1/18/19	5.6	G	N		soibar open cranial implants implants appear clean, no edema, pustules were seen	[REDACTED]
1/24/19					A: Stable animal w/ cranial implant P: D/C to KTOP + continue routine cleanings per protocol.	[REDACTED]
1/25/19	6.8					[REDACTED]
1/25/19					Cranial Implant CLEANING - 0.1mls Ketamine 0.01 ml Dexmedetomidine/Atipamizole reversal or <u>chained cleaning</u> Implant/post edges cleaned and hair trimmed Novasan/Betadine was used to clean the implant. Discharge: Y / N Amount of discharge: none Color: normal Additional Treatment: N/A	

PHYSICAL EXAM

Date 2-1-19 Weight 6.95 BCS 2.0

HR 140 RR 28 TEMP 106.8

Project Code

1. Integument head implant Shave Tattoo

2. Oral Cavity agenesis of mandibular incisor

3. Eyes WNL

4. Ears WNL

5. Musculoskeletal WNL

6. Thorax Auscultation WNL

7. Abdominal Palpation WNL

8. Spleen WNL

9. Liver WNL

10. Lymph Nodes WNL

11. Urogenital WNL

12. Rectal Palpation WNL

Implant is clean, edge well healed, no discharge, shaved + cleaned with DNS.

Animal may be unpaired or individually housed while receiving veterinary care

2/1/19

MMU / 0.7 CC KET/D->1310

W/O4462 NRL02

332

CAGE TIME 1:55 15MIN 2 30MIN 3 45MIN 1HR 1.25HR 1.5HR 1.75HR 2HR

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
1/4/19					SO: Rec'd in [REDACTED] per wo# 4113NRL02. Gave additional O.SOML Monitored under propofol/ketamine sedation (did/did not intubate). Cleaned implants with chlorhexidine scrub. Performed neuro recordings then returned to home cage for recovery SO ₂ : margins of implant and incision CDE.	[REDACTED]
1/4/19					SO ₃ : skin margin clean + dry, abnt implant edges. Skin margin healthy well. R hand radial to exposed implant has very subtle edema, approx 1-2 mm raised. Not significant enough to observe. Trained hair at skin margin to aid visualization. A: Healing well post implantation, trace swelling P: see 1/4 p, consider diphenhydramine to [REDACTED] cranial swelling recurs to [REDACTED]	[REDACTED]
1/5/19	G G N				SO: BAR opm: cranial implants; cranial implants CDL, noted no erythema or scabbing, margins WNL.	[REDACTED]
1/6/19	G G N				SO: BAR opm: cranial implants; implants CDL, noted very mild crusting @ posterior aspect of (1) port, NEED	[REDACTED]
1/8/19	G G N				SO: BAR opm: cranial implant; implants appear intact & stable, mild crusting around implant, dry, no swelling, no facial edema A: improved swelling, stable implant P: decrease observations to 2x/wk per DTM	[REDACTED]
1/11/19	G G N				SO: BAR opm: cranial implant no facial edema, no scabbing or erythema. Implant shows signs of discharge.	[REDACTED]

Animal ID# [REDACTED]

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Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
1/2/19					(cont) or implant pulhr. No clin signs noted. RvAS appear predr my clean possibly s. crusts of (G) part filled today doing well	
MMU [REDACTED] 7 yrs 9mos	6.81kg	NRL02	F		P. extend diazepam & bendectin another day until animal completes 1 st recording session & implant can be evaluated to determine LTP	
Diazepam 5 mg/mL 0.50 mg/kg Dose	0.70 mLs Volume	PO BID 5 Rte Freq Days	3.4 mg Total Dose			
Start 12-30-2018	End 01-03-2019					
Extended						
" C-116001 Upd02JAN14:15 Prn02JAN14:15						
MMU [REDACTED] 7 yrs 9mos	6.48kg	NRL02	F			
Diphenhydramine 25 mg/caps 3.00 mg/kg Dose	0.80 caps Volume	PO BID 13 Rte Freq Days	19 mg Total Dose			
Start 12-22-2018	End 01-03-2019					
Modified Extended						
Modified, Extended						
" C-115163 Upd02JAN14:15 Prn02JAN14:15						
1/3/19	G G N	SD: BX2 OPM: cranial implants; Incision CDI w/ mild, resolving scabbing. No exudate viewed @ either implant, no swelling or erythema. NEPD.				
1/4/19	G G C	SD: BX2 OPM: Cranial implant. Cranial implant CDI, margins nm. NNPO.				
1/4/19	66S	11m1 wt 1D - (Surgery. 0.7 kg				
					ANIMAL MONITORED UNTIL RECOVERED	

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Social (N, SS, L, B) ⊕	Observations	Initials
12/29/18	G G N	SO: BAR OPM: cranial implant. Animal active in cage and accepting treats. Did not shiver or pull @ implant during observation. Cranial Implant margins are CDT, no swelling or erythema noted. No swelling observed around eyes or face. A: cranial implant stable, angioedema resolved. P: CTM on OPM Daily, cont tx as planned	[REDACTED]			
12/30/18	G G N	SO: BAR OPM cranial Implant Implant margins CDT. Animal moving well around cage, accepting treats A: cranial implant stable P: vet assess Daily, cont tx as planned	[REDACTED]			
12/31/18	G G N	SO: BAR OPM: cranial Implant Moving around cage well. Accepting treats. Margins around implant are CDT. A: cranial implant stable. P: vet assess daily cont tx as planned	[REDACTED]			
1/1/19	G G N	SO: BAR OPM: cranial implant very active in cage No shivering or head pulling behavior noted. Cranial Margins CDT, No swelling, D/C or erythema. A: Animal Stable post implantsx. P: CTM on OPM Daily, cont tx as planned.	[REDACTED]			
1/2/19	G G N	SO: BAR OPM Cran implant Animal appears calm - no scratches	[REDACTED]			

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
12/27/18	F G N	S0: BARQ opm - Cranial implants. Implant COT, no d/c or crusting at margins. No facial edema. Very interactive w/treats. No scratching. NEPD.				
		A: Stable animal post cranial implant. Facial angioedema resolved.				
		P: Cont tx as planned, cont to monitor on opm daily (vet assess)				
12/27/18	G/G N	S0: BAPK 2-3 chow eaten? And animal reported to have consumed ~200 mLs of chew (n12/27) blood activity. No shiver/shivering response (though fairly certain it is this animal's stress response to some personnel coming into the room or close to her) Noted occasional wiping around pua - no scratching (or nail digging obs.)				
MMU [REDACTED]	F 7 yrs 9 mos 6.48 kg NRL02	Diphenhydramine 25 mg/caps 3.00 mg/kg Dose	PO BID 12 Rte Freq Days Start 12-22-2018 End 01-02-2019	19 mg Total Dose	Modified Extended Modified, Extended	Possible bright edema around eyes/muzzle & resolving/resolved angioedema - on benadryl ① calm response & attitude - improved on valium & after move to home room P. Finis
MMU [REDACTED]	F 7 yrs 9 mos 6.48 kg NRL02	Diazepam 5 mg/mL 0.50 mg/kg Dose	PO BID 4 Rte Freq Days Start 12-30-2018 End 01-02-2019	3.4 mg Total Dose	Ketoprofen X today. Extend benadryl to 1/2 ↓ valium to 1/2 dose. On 12/30 to 1/2 dose until 1/2	Check animal daily, stop drugs
① PEG	12/28/18	on 1/2 & elev 1/3				

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, BI) ⊕	Observations	Initials
12/26/18					(cont: bending (12/28) until facial edema is entirely resolved, Reduce/wean off valium when able (12/27). Give 1 course of Ketoprofen (3/days → 12/28) to potentially reduce/address crux inflam.)	
MMU [REDACTED] 7 yrs 9mos	6.81kg	F	NRL02			
Ketoprofen 100 mg/mL 5.00 mg/kg Dose $\frac{1}{2}$ Total Dose 34 mg						
0.34 mLs Volume	IM SID Rte	3	Freq Days			
Start 12-26-2018	End 12-28-2018					
KLC C-115862 Ins26DEC012:01 Prn26DEC012:01						
Admit Prob. Sheet						
12/26/18		moved → [REDACTED]				
12/26/18	6.46kg	SOBDR Good intake & stool consistency. Incision site healing well by 1st mt.				
MMU [REDACTED] 7 yrs 9mos	6.48kg	F	NRL02			
Diazepam 5 mg/tablet 1.00 mg/kg Dose $\frac{1}{2}$ Total Dose 6.5 mg						
1.30 tabs Volume	PO BID Rte	9	Freq Days			
Start 12-21-2018	End 12-29-2018					
Modified Extended Modified, Dose Ovrd, Extended						
KLC C-115751-DO Upd27DEC09:46 Prn27DEC09:46						
MMU [REDACTED] 7 yrs 9mos	6.48kg	F	NRL02			
Diphenhydramine 25 mg/caps 3.00 mg/kg Dose $\frac{1}{2}$ Total Dose 19 mg						
0.80 caps Volume	PO BID Rte	8	Freq Days			
Start 12-22-2018	End 12-29-2018					
Modified Extended Modified, Extended						
KLC C-115763 Upd27DEC09:46 Prn27DEC09:46						
NRE staff re: animal takes hand & almost massages head rostral to caudal to ports. Animal is currently stable on bending (crx edema wh/ is resolve (almost resolved), Valium for stress (improved morale - but still occ shivers) for out of wiping around ports, scratching? massaging head? ③ finish keto for potential inflam, vet assess daily						

Date	Weight (kg)	Appetite (G, F, P) ☺	Hydration (G, F, P) ☺	Stool (N, SS, L, B) ☺	Observations	Initials
12/25/18	G G N	SD: BIAR. implants & incision CDE. Normal movement. Scratching at incision and implants while being observed. Face still swollen, (B)cheek appears mildly more swollen than on 12/24. Both eyes still have edema and are half open.				
MMU [REDACTED]	F 7 yrs 9mos 6.48kg	NRL02				
Diphenhydramine 3.00 mg/kg Dose	25 mg/caps 19 mg Total Dose					
0.60 caps Volume	PO BID Rte Freq Days	7				
Start 12-22-2018	End 12-28-2018				Appears alert and active.	
12/26/18	G G N	SD: BIAR. Implants CDE, shivering. No facial swelling visualized. BIAR. Normal movement.				
12/26/18	G G N	SD: BIAR. Incision CDE. Noosa imperceptible facial swelling, possible shivering elected to move heat lamp closer (good appetite for all supps +) I chaw lots of stool. Incision healing well by 1 st int (Head implants are ^{no} resolved completely)				
		(③) Shivering: P. stop valium after bolus to assess off valium tolerance. Don't benzodiazepine. (12/27 + 12/28 cont to monitor closely incl for seizures). Eval to send animal to home care. If animal starts going after her head implants off valium again + tolerance. Consider isolating for RSV rads (incl CPSC & Chem 80) +/- neurorecord				
		P: Surgeon had a concern regarding a screw in or near a nerve cell causing potential irritation				

Date	Weight (kg)	Appetite (G, F, P) <input checked="" type="checkbox"/>	Hydration (G, F, P) <input checked="" type="checkbox"/>	Stool (N, SS, L, BI) <input checked="" type="checkbox"/>	Observations	Initials
12/24/18	6.6	N	S0: BAR. Face and back of head swollen. Blue swollen halfway shut. Animal consistently scratching implants and picking. Implants CDE. Animal observed shaking. Per DVM, admin. 0.40mL of Diphenhydramine IM instead of PD.			
	6.81		S02: Sedated w/ 0.6ml of ket + 0.1ml of Dexmed Iafip IM. Prior to sedation, performed PHYSICAL EXAM			
<p>Date 12/24/18 Weight 6.81 kg BCS 2.00</p> <p>HR 120 RR 28 TEMP 99.8</p> <p><input type="checkbox"/> Project Code: NOVA results: prior to sedation due to pH: 7.1 Hct: 41% HCO3: 35.4 Na: 156.3 K: 5.98 electrolyte imbalance, Glu: 79 BUN: 21 Creat: 1.0</p> <p>1. Integument Incision C01, mild eryth. Surrounding implants</p> <p>2. Oral Cavity Slightly edematous tongue, cheeks</p> <p>3. Eyes Periorbital edema. Ears wnl</p> <p>5. Musculoskeletal wnl</p> <p>6. Thorax Auscultation wnl</p> <p>7. Abdominal Palpation wnl</p> <p>8. Spleen wnl 9. Liver wnl</p> <p>10. Lymph Nodes wnl</p> <p>11. Urogenital wnl</p> <p>12. Rectal Palpation Not performed</p> <p>Samples Collected</p> <p>Date: 12/24/18 receiving veterinary care</p> <p>R/C SS CBO Chem20</p> <p>Vol. blood 0.4ml</p> <p>Other: NOVA</p> <p>receiving veterinary care</p> <p>100ml of LRS SQ, placed TAO in (R) eye due to prior concerns when eye open in SX, + placed cold pack on face until waking up from sedation.</p> <p>cranial incision + implants w/ DNS. Slight serosanguineous o/e emitted from (R) implant.</p> <p>A: Edematous face 2+ to suspect amyphylaxis of unknown etiology. Incision post cranial implant sx healing by 1+2 int. P: cont. rx, monitor for ↓ swelling. CTM on no MH.</p>						

Date	Weight (kg)	Appetite (G, F, P)	Hydration (G, F, P)	Stool (N, SS, L, B)	Observations	Initials
12/21/18					SO: Obs animal rubbing & pulling on implant repeatedly. SO elected to resect her on diazepam (x 2 d). P: See previous plan & monitor for response - any improvement in pulling & rubbing implant.	[REDACTED]
MMU [REDACTED] 7yrs 9mos	6.48kg	NRL02	Diazepam 5 mg/tablet 0.50 mg/kg Dose	3.2 mg Total Dose		
0.60 tabs Volume	PO Rte	BID Freq	2 Days			
Start 12-21-2018	End 12-22-2018					
					C-115751 Ins21DEC16:28 Prn21DEC16:29	
12/22/18	F G N				SO: BAR, cranial implant appears CDI + incision active & moving well. Started rubbing & scratching @ implant after administration of injections. Stopped when I left/exited room.	[REDACTED]
MMU [REDACTED] 7yrs 9mos	6.48kg	NRL02	Diphenhydramine 25 mg/caps 3.00 mg/kg Dose	19 mg Total Dose		
0.80 caps Volume	PO Rte	BID Freq	4 Days			
Start 12-22-2018	End 12-25-2018					
Diazepam 5 mg/tablet 1.00 mg/kg Dose	6.5 mg Total Dose					
1.30 tabs Volume	PO Rte	BID Freq	3 Days			
Start 12-21-2018	End 12-23-2018					
					Modified	
12/23/18	G G N				SOLBAR, ate F+V+ liquid water, ST CPT, turning back R side, normal mvt, attentive to surroundings	
MMU [REDACTED] 7yrs 9mos	6.48kg	NRL02	Diazepam 5 mg/tablet 1.00 mg/kg Dose	6.5 mg Total Dose		
1.30 tabs Volume	PO Rte	BID Freq	7 Days			
Start 12-21-2018	End 12-27-2018					
					Modified Extended	
0.39 caps Volume	PO Rte	BID Freq	7 Days			
Start 12-22-2018	End 12-28-2018					

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
12/20/18					- mainly FRUIT & veg (incl. Kiwi & avacado) & fair amt of normal stool under her cage! Drank OET Incision site. Still picks, wipes, or pulls @ (P) port wh/ she has done since sf. D: Fairly good postop recovery w/ incision healing well by 10 AM. Concerns of ↑ ICP yesterday (so ↑ dexamethasone TX) P: CMX (dosed on PO, Encourage intake. Finis) all tx'd supp's thru (12/23) d/c w/tx're so: Animal is a bit spicier - taken off valium Rx and only very slight erythema on (P) engd - no rubbers obs. today [REDACTED]	
12/20/18	P/F	G	SS		so: gao. Very active, standing in cage. All supp's, not chow. Mild erythema on medial R calf w/ pinpoint lesions. Implants clear/day intact. Normal mmnt, mentation. Mucous membranes pink. [REDACTED]	
12/21/18	P/F	G	N		so: BAR, active in cage. Animal noted to be shivering + scratching; occasionally picking/pulling at implant [REDACTED]	
12/21/18	F	G	N		so: BAR Animal obs. solvent re: placed heat lamp closer. Excavations still vis on (P) inner leg. No d/c noted around the parts. Incision is dry. Animal ate a fair amt of bananas & raisins when offered (P see 12/20) P: Also trying to get grade between this & correctly her recondition for enrichment [REDACTED]	

Date	Weight (kg)	Appetite (G, F, P) <input checked="" type="checkbox"/>	Hydration (G, F, P) <input checked="" type="checkbox"/>	Stool (N, SS, L, B) <input checked="" type="checkbox"/>	Observations	Initials
12/18/18					cont': Animal either had light contact of top of head w/ floor or head hovered above floor - not clearly pressing. Animal frequently scratches incision, but no irritation/ excretions.	
MMU [REDACTED] 7 yrs 9mos	6.60kg	NRL02	F		During observations animal shook her head 3 times and lost her balance, twice completely falling. Appears to be concern of intracranial smelly causing central vestibular signs. Consulted w/ project vet & agree to increase dexamethasone to BID tonight & 1 dose for next 2 days.	
Dexamethasone 10 mg/mL 1.00 mg/kg Dose	6.6 mg Total Dose	IM BID Rte Freq Days Start 12-18-2018 End 12-19-2018			A: concern of increased intracranial pressure Pi: Updated vet on call & assessed result together, monitor for changes in condition	
0.70 mLs Volume	0.75 mg/kg Dose	IM SID Rte Freq Days Start 12-20-2018 End 12-21-2018			soz: On call vet came in & obs animal for ~3 hrs. Animal laid down & appeared to look under cage & try to hold hands w/ roommate, but no headshaking or other signs of depression or potential ICP were noted. Monitored the rest of the night by night shifts	
12/19/18						
12/20/18					12/20/18: PRIM: Animal is sitting calmly on her perch this am - No signs of depression, TICP, or other clinical signs. She ate a fair amount of food	

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
3/9/18	F G N	S0: PRIMATE animal ate ~ 1/2 her fruit & veg (avocado, green beans, grapes, prunes) along w/ RC and others. ② eye is mild/mod erythematous periorbitally. Incision (ID). animal is a bit calmer this am though still pulling on her ② ^{part/connector, but mostly} grooming & holding hands ①/ communicate through the cage. Dilacod post op recover improved intake & stool, calmer today. on valium, not itching → grooming instead, mild/mod perocular erythema OD, Incision healing by 1st int P: (out to more closed) on PO Encourage intake finishes all tx & supps as planned try to apply ophthalmic TAO cage side (No sedation) as possible				
12/19/18		S02: PM: Animal reported laying down. At observation attitude, activity, mentation all appear normal. Occasionally observe animal laying down at the front of the cage to hold hands with / groom visual buddy. Apparently stable post op.				
12/19/18		5pm: Animal reported for possible head pressing. Observed animal position w/ head down on floor multiple times in 10 min				

Animal ID#

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Date	Weight (kg)	Appetite (G, F, P) ☺	Hydration (G, F, P) ☺	Stool (N, SS, L, B) ☺	Observations	Initials
3/18/18	E (6.0N)				SO: BART Animal has a fair amt of very dry scales. She ate Pt, & some fruit & veg yesterday. Not eating as much this am. However animal has excessive itching despite Benedryl tx. Noted mild bloody/ clear d/c @ ports. Head incision (C7) Occ picking or even pulling at (R) port & possibly underlying swollen.	J
MMU [REDACTED] 7yrs 8mos	6.70kg NRL02	IM TID 2 Rte Freq Days Start 12-17-2018 End 12-18-2018			A: Good postop recovery. Incision healing by 1 st int P. Wt closely on postop. Switch upmorphine to buprenorphine to encourage intake.	
MMU [REDACTED] 7yrs 8mos	6.70kg NRL02	IM SID 2 Rte Freq Days Start 12-18-2018			SO: Animal took 2 imulin dots 50z: 3pm Animal was reported for pulling @ skin. Noted (R) inner leg had mild erythema. A few scratch marks, a few scratch marks also noted on neck & arms. Scratching has diminished but not resolved.	
MMU [REDACTED] 7yrs 9mos	6.48kg NRL02	IM TID 2 Rte Freq Days Start 12-18-2018 End 12-19-2018			Animal does not appear painful or stressed. Probably still itchy from opioids. Noted some grooming like activity. Animal is somewhat reactionary at times. ate grapes, green beans & drank water.	
Diazepam 10 mg/tablet 0.50 mg/kg Dose 0.32 tabs Volume Start 12-18-2018	PO BID 2 Rte Freq Days End 12-19-2018				↑ stool production (more) A: Stable but maybe agitated.	
KLC C-115600 Ins18DEC16:51 Prn18DEC16:51						

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕			
12/17/18 (CONT)							
MMU [REDACTED] F 7yrs 8mos 6.70kg NRL02							
Famotidine 10 mg/mL 0.50 mg/kg Dose 3.3 mg Total Dose							
0.33 mLs IM SID 7 Volume Rte Freq Days Start 12-16-2018 End 12-22-2018							
have dose ready 12/17AM for p/u by sx tech							
Maropitant 10 mg/mL 1.00 mg/kg Dose 6.7 mg Total Dose							
0.70 mLs SC SID 7 Volume Rte Freq Days Start 12-17-2018 End 12-23-2018							
12/17 dose given by sx							
Dexamethasone 10 mg/mL 1.00 mg/kg Dose 6.6 mg Total Dose							
0.70 mLs IM SID 2 Volume Rte Freq Days Start 12-16-2018 End 12-17-2018							
Dose Ovrd Have dose ready 12/17AM for p/u by sx tech							
Dexamethasone 10 mg/mL 0.75 mg/kg Dose 5. mg Total Dose							
0.50 mLs IM SID 2 Volume Rte Freq Days Start 12-18-2018 End 12-19-2018							
Dexamethasone 10 mg/mL 0.50 mg/kg Dose 3.3 mg Total Dose							
0.33 mLs IM SID 2 Volume Rte Freq Days Start 12-20-2018 End 12-21-2018							
Dexamethasone 10 mg/mL 0.25 mg/kg Dose 1.7 mg Total Dose							
0.17 mLs IM SID 1 Volume Rte Freq Days Start 12-22-2018 End 12-22-2018							
12/17/18							
Observations							
MMU [REDACTED] F 7yrs 8mos 6.70kg NRL02							
Hydromorphone 10 mg/mL 0.15 mg/kg Dose 1. mg Total Dose							
0.10 mLs IM TID 3 Volume Rte Freq Days Start 12-17-2018 End 12-19-2018							
check with sx for time of first dose 12/17							
Buprenorphine .3 mg/mL 0.03 mg/kg Dose .20 mg Total Dose							
0.70 mLs IM SID 3 Volume Rte Freq Days Start 12-17-2018 End 12-19-2018							
give as PM dose only							
Kool-Aid 1.00 bottle(.5L)/anim 1. Bottle(.5L) Dose Total Dose							
1.00 Bottle(.5L) PO SID 3 Volume Rte Freq Days Start 12-17-2018 End 12-19-2018							
Boost 1.00 bottle(.5L)/anim 1. Bottle(.5L) Dose Total Dose							
1.00 Bottle(.5L) PO SID 4 Volume Rte Freq Days Start 12-17-2018 End 12-20-2018							
BOOST SOAKED CHOW PLEASE							
Prunes Dose Total Dose							
PO SID 4 Volume Rte Freq Days Start 12-17-2018 End 12-20-2018							
Diphenhydramine 50 mg/mL 3.00 mg/kg 20 mg Dose Total Dose							
0.40 mLs IM BID 3 Volume Rte Freq Days Start 12-17-2018 End 12-19-2018							
Rice Cereal Dose Total Dose							
PO BID 6 Volume Rte Freq Days Start 12-17-2018 End 12-22-2018							
Levetiracetam 100 mg/mL 10.00 mg/kg 67 mg Dose Total Dose							
0.70 mLs PO BID 1 Volume Rte Freq Days Start 12-21-2018 End 12-21-2018							
SO, PBS 20							
SO2: CBC: WBC: 6.5, RBC 5.2, HCT 38.6, MCV 70, Plates 232, P.P. 7.6, Fibrinogen 200							
A2 CBC WNL							
P2: (TM on POM)							

Date	Weight (kg)	Appetite (G, F, P) ⊕	Hydration (G, F, P) ⊕	Stool (N, SS, L, B) ⊕	Observations	Initials
9/1/18	G/GN	SD: BAR (P), Pd	SPM: blood unknown (n. animal)			
					mensing, very small amount blood in cage, NO trauma. NEPD.	
					A: mensing - stable at this time	
					P: CTM on MH	
9/2/18	6.7					
10/5/18	6.29					
10/11/18					SD: BAR (P), MMU [REDACTED] + MMU [REDACTED]	
					escaped enclosure. No trauma visualized to digits, limbs, body, or face. A: NEPD	
					P: CTM on routine MH	
10/17/18	F G (cc so per husbandry animal is anxious post escape 10/6, unwilling to move into smaller cage for feeding, has not eaten (how chow is declining treat); project behaviorist contacted so: afternoon feeding animal ate 2 chow and copious produce A: variable intake post escape					
					P: CTM on routine MH	
10/18/18	E/G N	SD: BAR, Re; Poor APP (chow). P (chow in cage, ate scratch and treats. active, NEPD. Received treats per project.				
					A: Fair - Good appetite	
					P: CTM on MH	
10/19/18	6.5					
10-31-18	G G (cc so: BAR Re: Face trauma: Three minor scratches on (L) cheek. No break in skin, NEPD. No tx needed. A: minor scratch abrasions					
					P: CTM on M.H	

Date	Weight (kg)	Appetite (G, F, P) ①	Hydration (G, F, P) ②	Stool (N, SS, L, B) ③	Observations	Initials						
6/21/18	6.6	N	S	G	P: R: Dleg trauma. ~5mm in diameter pinpoint lesion on the medial aspect of the Dleg. G: w/mild erythema. No picking during observation N: EPO.							
					A: minor lesion Dleg							
					P: No tip at this time, GM or MM							
6/29/18	6.2											
7/13/18	6.4											
7/27/18	6.4											
7/31/18					CT SCM NRWor X							
7/31/18	MMU [REDACTED]	0.42 MLS TELAZOL IM	W.O. _____									
WT:		CAGE TIME	9:00	15MIN	30MIN	45MIN	1HR	1.25HR	2.1.5HR	2.1.75HR	3.2HR	
7/10/18	6.4											
8/10/18												
8/10/18	MMU [REDACTED]	0.8 MLS KET IM, D→ 1302	SPF01 W.O. 2437									
WT: 6.35		CAGE TIME	1:45	15MIN	30MIN	45MIN	1HR	1.25HR	1.5HR	1.75HR	2HR	
8/24/18	6.40											
9/7/18	6.3											

OEE-8/10/18 Km

GL-Form 12-16-2011

G = Good F = Fair P = Poor N = Normal SS = Semi Solid I = liquid B = Bloody

UCD 0362

Date	Weight (kg)	Appetite (G, F, P) ⊗	Hydration (G, F, P) ⊗	Stool (N, SS, L, B) ⊗	Observations	Initials
3/31/18					SO: BAR (P) Re: Poor Appetite, Ate 1 chow, did/did not eat forage, did/did not eat fruit pieces/treats. A: Poor, fair, good appetite. P: Confirmed / Unconfirmed report.	[REDACTED]
4/6/18	MMU [REDACTED] 0.9 ML KET IM, BLED SB, ROOM ROUND UP TB TEST L EYE 24HR [REDACTED] 48HR [REDACTED] 72HR [REDACTED] WT: 6.43 CAGE TIME: 8'25 15MIN [REDACTED] 30MIN [REDACTED] 45MIN [REDACTED] 1HR [REDACTED] 75MIN [REDACTED] 1.5HR [REDACTED] 1.75MIN [REDACTED] 2HR [REDACTED]					[REDACTED]
4/7/18	P 6 CC				SO: BAR , Re: Poor appetite. Ate 0 chow and did/did not eat forage, did/did not eat fresh fruit / treats. A: Poor, Fair, Good appetite. 1 st recent confirmed report. P: CTM on MH / OP	<i>suspect PA/ decreased app. may be due to procedure on 4/10/18.</i>
4/20/18	W.02					[REDACTED]
5/4/18	WSD					[REDACTED]
5/18/18	W.48					[REDACTED]
6/6/18					moved to [REDACTED] per move 18-330	[REDACTED]
6/8/18	F 6 N				SO: BAR (F) Re: Poor appetite. Ate 1 chow and did/did not eat forage, did/did not eat fresh fruit / treats. A: Poor, Fair, Good appetite. recent confirmed report. P: CTM on MH / OP	<i>per lab staff MMU ate all produce & treats offered during task training.</i>
6/9/18	F 6 N				SO: BAR (F) Re: Poor appetite. Ate 0 chow and did/did not eat forage, did/did not eat fresh fruit / treats. A: Poor, Fair, Good appetite. recent confirmed report. P: CTM on MH / OP	<i>MMU readily eats fresh fruit. A2: Fair app. for supps, poor appetite for chow.</i>
6/13/18	F 6 N				SO: BAR (P) Noted MMU coughing & sneezing w/ mild cyanosis around nares & philtrum. A: Coughing & sneezing. P: Follow up 6/14/18 w/ AM conf. to assess +/- tx.	[REDACTED]

(O) E.E. wrote incorrect number/date. 4/7/18 [REDACTED]

Date	Weight (kg)	Appetite (G, F, P) O	Hydration (G, F, P) O	Stool (N, SS, L, B) O	Observations	Initials
1-19-18					moved → [REDACTED] - 2	[REDACTED]
2/6/18	6.76				DEwt	[REDACTED]
MMU [REDACTED]		F			Supp ended per DVM - Animal	
6yrs 10mos	6.16kg	NRL02				
Long Term Bars					Nut eatly.	
2.00 bar/animal			2.00 Bar			
Dose			Total Dose			
2.00 Bar	PO	SID 138				
Volume	Rte	Freq	Days			
Start 09-28-2017		End 02-12-2018				
Ended						
VLF	S-095066	Upd12FEB014:45	Prn12FEB014:45			[REDACTED]
2/14/18					moved → [REDACTED] per NO # 18-100	[REDACTED]
3/2/18					FA (C) SO: BAR, Pe; Poor App (Ochotona) Animal has to chow, ate scratch, clear cage no stool. Active. NERD. A: Fair Appetite (5% recent report) P: CTM on MTH	
3/4/18					P (C) SO: BAR (P) Re: poor app (No chow in cage post cage cleaning). Animal eagerly ate 1/2 banana. Active, NERD. 12% recent poor app report, though unconfirmed on 3/2/18. Stable. P: CTM on MTH. spec animal not fed in am yet.	
3/9/18	6.34					[REDACTED]
3/11/18					? (C) SO: BAR, (P), Pe; Poor App (no chow) No chow in cage. Cannot confirm poor app. Ate all forage. A: unable to confirm clean cage P: CTM on MTH	
3/23/18	6.40					[REDACTED]

(1) Date Should READ 2-6-18 - [REDACTED] 2-6-18

Obs Form 12-16-2011

G = Good F = Fair P = Poor N = Normal SS = Semi Solid L = liquid R = Bloody

UCD 0364

(15)

CNPRC	Search	Vacant	Animal On Date
Web Vitals	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
<input type="button" value="Submit"/>			

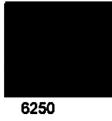
[Home](#) | [Animal Selection](#) | [MH Files](#) | [Exit](#)

[Animal Summary](#) | [Assignment](#) | [BB Assessment](#) | [Conception](#) | [Enrichment](#) | [Diarrhea](#) | [Fostering](#) | [Immunization](#)

[Morning Health](#) | [Housing Condition](#) | [Pedigree](#) | [Project](#) | [Relocation](#) | [Reproductive](#) | [Serum Bank](#) | [Snomed](#) | [Virology](#) | [Weight TB](#)

Report ID: 67091**Final Necropsy Report****Timestamp:** Sep 29, 2021 02:39 PM

Animal ID
Location
Investigator
Pathologist
Weight (grams)



6250

Sex
Age (yr:mon:day)
Project
Clinician
Pathology Condition

F

2:1:20

NRL02

Death Date

03/21/2019

Death Type

BZ59

Charge ID

2019-03-21

Work Performed

Hydration

Gross Observations**Organ**

The base of the right port is discolored yellow. The subcutaneous tissues over the right pill box and insertion cap and right dura/fibrous plug under the insertion cap are gelatinous and slightly tan to red. The left side is grossly within normal limits.

Gross Diagnosis

Seq	Organ	Text
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1	BRAIN	HEAD IMPLANT CELLULITIS
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Gross Comments

Histology, bacterial cultures, and cytology slides are pending.

Final Observations

Organ	Text
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BODY AS A WHOLE The following tissues are within normal limits: Stomach, duodenum, jejunum, ileum, cecum, colon, pancreas, liver with gallbladder, lung, kidney, spleen, cervical spinal cord.

The left and right dura/fibrous plugs were removed at time of necropsy. Left brain under insertion cap (slide 1): The surface of the cortical grey matter in the region of the removed fibrous plug is tattered and lacks the leptomeninges. Adjacent to this region where the leptomeninges is intact there is a focal region of acute superficial cortical hemorrhage that extends 0.5mm into the cortex. The affected regions of brain have mild gliosis and satellitosis. There is multifocal linear vacuolation within the deep cortex and throughout the white matter (presumed to be from remnant electrode threads). Right brain under insertion cap (slide 2): The leptomeninges is predominantly left intact but the cortex is focally tattered where the leptomeninges is missing. In affected regions there are similar changes such as gliosis, satellitosis, and vacuolation of the grey and white matter. Left dura/fibrous plug (slide 3): The slide consist entirely of mature granulation tissue with moderate numbers of perivascular lymphocytes, plasma cells, and rare neutrophils. There are also occasional aggregates of hemosiderin laden macrophages and few eosinophils. Right dura/fibrous plug (slides 4 and 5): In addition to the granulation tissue and inflammation seen on the left, there are also large aggregates of viable and degenerate neutrophils and fewer foamy histiocytes mixed with necrotic cellular debris. Remnant electrode threads are occasionally surrounded by multinucleated giant cell macrophages. Right subcutaneous tissue over pill box (slide 6): There is marked edema, and large infiltrations of neutrophils, fewer eosinophils, and hemosiderin laden macrophages.

Cytology results: Right dura under insertion cap: There are moderate numbers of neutrophils and fewer foamy histiocytes. There are no bacteria in the sections examined. Left subcutaneous tissue over pill box, left dura under insertion cap, right and left brain under insertion cap: These samples have low cellularity and small amounts of blood contamination. Cell present consist of rare neutrophils, few histiocytes, and rare fibroblasts. There are no bacteria in the sections examined. Bacteriology results (no significant bacteria isolated): Aerobic culture (right and left brain under insertion cap): Enterococcus sp. isolated from this broth Aerobic culture (right dura under insertion cap, right subcutaneous tissue over pill box): 1+ Enterococcus sp. Aerobic culture (left dura under insertion cap): Group D Streptococcus sp. not Enterococcus isolated from this broth Aerobic culture (left dura under insertion cap): Staphylococcus coagulase positive sp. Isolated from this broth Aerobic culture (left subcutaneous tissue over pill box): Few mixed colonies Anaerobic culture (all samples): Negative or no growth

Final Diagnosis

Seq	Organ	Text
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1	BRAIN	HEAD IMPLANT CELLULITIS
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Final Comments

There was evidence of neutrophilic inflammation affecting the right subcutaneous tissues and right fibrous plug under the insertion cap; however, inflammation did not extend to involve the dura or brain. The left side had evidence of a previous infection but at time of necropsy inflammation was minimal suggesting treatment to this side was successful. Bacteria was not observed in cytology or histologic sections and bacterial cultures did not isolate significant bacteria at time of necropsy. MAin organs collected per the NRL protocol are within normal limits.