
❖ BRL BULLETIN ❖

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2019

This is the "White Paper" issue of the *BRL Bulletin*, which is used to announce the new per diem schedule that will go into effect on February 1, 2019. In addition, predicted rates for 2020, 2021, and 2022 are provided.

An Overview of the Rate Setting Process

The process of setting rates requires a review of costs and an allocation of those costs to specific activities. This process is accomplished at the BRL by using cost centers and internal accounts to track income and expenses. The key to this system is that most transactions are assigned to a cost center at the time they are initiated. The other key element is tracking activity for internal recharges, such as the cost of cage washing, feed, and labor. Labor, as is the case with any service or manufactured product, makes up a significant portion of the cost of doing business. To facilitate the tracking of labor, supervisors submit daily labor activity reports, which include regular and overtime hours and the animal species to which employees are assigned for each respective work day. These reports are submitted to the BRL business office staff, audited against payroll, and the total direct labor for each species is determined. The total direct labor for each species is then divided by the number of animal days or other appropriate allocation method in order to determine the labor cost per day associated with maintaining the respective animal species. Essential to the process is having an efficient system in place with historical records that allow trends to be tracked in order to recognize when circumstances arise that either directly or indirectly impact the cost of performing a certain activity.

Factors that Impact Rates and/or Services Charged

There are many factors, both direct and indirect, that may have a positive and/or negative impact on per diem rates. These factors include everything from state and federal support to the costs associated with labor, labor contracts, feed, bedding, fuel, plastics, stainless steel, environmental enrichment, program improvements, and economies of scale. The factors that impact per diem rates are generally easy to track and usually relatively easy to predict especially now that the state of Illinois is operating under an approved budget.

Program Scope and Growth

The BRL staff provide support to approximately 275 investigators with approximately 650 active protocols. The average daily animal census in FY18 (excluding fish) was 36,674 which is approximately the same as in FY17.

This is the first time in five years that the animal care program did not experience growth. This can be attributed in part to the departure of two large mouse user groups in 2018. New faculty recruitments, however, are quickly back-filling the housing space left behind, and we anticipate a 3% growth in our mouse box census over the course of this year. Note fish are not included in the daily census figures because most fish on campus are maintained by the investigators' laboratory staff and as a result fish have little impact on BRL staff labor and expenses.

Another simple metric to look at that demonstrates program scope is the total number of animal husbandry support days (animal care days). In FY17 the BRL provided support for 4.27 million animal care days; whereas in FY18 the BRL provided support for 4.33 million animal care days, representing a slight increase in total animal care days.

The Rates for 2019

Of the 31 per diem categories from 2018 that will carry over to 2019, none will increase above the predicted rates published in last year's rate setting *BRL Bulletin*. As a result, if you have been using the BRL published per diem schedule to develop your budgets for sponsored research, there should be no surprises.

Having a stable budget this last year has had a positive impact on the animal care and use program and our ability to maintain 2019 rates at or near 2018 levels. Of the 31 per diem categories from 2018 that will carry over to 2019, 14 will not increase. The primary beneficiaries of the 14 per diem categories that will not increase this year are users of mice, dogs, swine, and guinea pigs maintained in biological and chemical hazard rooms. Nonhuman primate and rabbit users will realize a 2.5% increase in per diems; whereas, rat, turtle, guinea pig (standard housing), and toads will realize a 3.3%, 4.4%, 4.8% and 5.1% increase in per diems, respectively. It should be noted that there is a \$0.06 per diem rate differential between mouse and rat per diem rates for MBRB, BBC, and ILF as compared to the BRL and COMRB. This differential takes into account the transportation costs of shipping equipment from the MBRB, BBC, and ILF satellite facilities to the BRL for cleaning.

The BRL will continue to use a three tier per diem schedule for investigators. The lowest per diem rate is for UIC investigators. The middle tier is for Illinois

Medical District (IMD) users. The per diem rate for IMD users includes a 20% surcharge to take into account that the animal care program is approximately 80% cost recovery. The per diem rate for non-UIC investigators outside the IMD will continue to be subject to a 59% surcharge, which takes into account the institution's indirect cost formula. Investigators with adjunct UIC appointments for whom salary and/or grants are not administered through UIC will be subject to the IMD per diem schedule.

A listing of the 2018 per diem rates (all three tiers) is included in this *Bulletin* and is available on the BRL website at <http://www.brl.uic.edu/>. Please contact a member of the veterinary staff if you need assistance developing a budget.

Animal Facility Benchmarking

In order to give some perspective to the UIC mouse and rat box charge, which impacts the greatest number of UIC investigators, a comparison was made with other academic institutions in both the Chicago area and the Big Ten. In 2019, the per diem for a static sterile mouse microisolator cage at BRL/COMRB is \$0.85/day. This per diem rate is the same and/or less than most comparable housing scenarios at the following institutions: Northwestern University (\$0.90/day), Loyola (\$1.15/day), University of Chicago (\$0.76/day), University of Minnesota (\$1.42/day), The University of Ohio (\$1.52/day), Indiana University (\$0.91/day), University of Michigan (\$1.55/day), University of Iowa (\$0.80/day), Purdue University (\$0.83/day), Michigan State (\$0.97/day), and the University of Illinois at Champaign/Urbana (\$1.11/day). At \$0.95/day the BRL/COMRB rat box per diem is less than the rat box charge at all of the institutions listed above, which range from a low of \$1.16 per day/box (Michigan State) to a high of \$3.02 per day/box (University of Minnesota).

Miscellaneous Fees

The cost to rederive (eliminate murine pathogens) a mouse or rat strain from a non-approved vendor in 2019 will remain \$1200 per strain. This cost does not include the per diem for animals maintained in quarantine during the rederivation process. Due to the health status of the UIC rodent colonies, most mouse and rat strains obtained from non-approved vendors require rederivation. This cost is the investigator's responsibility. Should you have any questions, please contact Dr. Jeanette Purcell at 6-7051.

Separating overcrowded cages will remain \$20 per box this year. It should be noted that investigators and their laboratory managers have complete control as to whether they are charged an overcrowded cage separation fee. Moreover, animal care staff are now documenting on breeder cards when litters are born in order to guide

investigative groups on when to wean litters and thus avoid the overcrowded cage separation fee.

The BRL space rental fee will remain \$17.50/sq. ft. per annum. This fee only affects investigators renting laboratory or animal space for specialized purposes and/or surgery space to store equipment.

In 2019, staff will continue to provide the euthanasia service for mice maintained in the BRL and COMRB animal facilities. Research staff need only bring mouse cages identified for euthanasia to a designated rack within the BRL or COMRB barrier, and BRL staff will euthanize the animals. The cost to use the service is \$0.35/cage.

The administrative fee for shipping mice to non-UIC facilities will remain \$50 for domestic and \$100 for international shipments. The administrative fee includes arrangement of the shipment, completion of health certificate paperwork, and for international shipments, USDA and other customs documentation, which can be quite extensive. The administrative charge does not cover the cost of the crate, air transportation, serologic testing, or other miscellaneous charges. The BRL will make a reasonable attempt within the confines of the department's and the University's billing system to charge the recipient institution for all costs incurred with the animal shipment; however, historically it has been difficult to recoup the administrative fee. If this is the case, the investigator's account will be charged, and it will be the investigator's responsibility to recoup the administrative fee from the recipient institution.

The Predicted Rates for 2020, 2021 and 2022

The BRL has published predicted rates for over 25 years and investigators are strongly encouraged to use these rates when calculating budgets for grants and contracts. Historically, the predicted rates have been based upon the average increase over the previous four years. This figure is used to arrive at the starting point for the predicted rates after which other factors are considered such as budget cuts and union negotiated wage increases. Note, every effort is made by the staff of the BRL to minimize costs in order to keep future increases below projections, while at the same time ensuring regulatory compliance and maintaining a high level of service.

Announcements

Congratulations are in order for the following members of the BRL staff who were recently recognized by the BRL and/or the Chicago Branch of AALAS (CBAALAS) for their exemplary work in providing animal care and research support.

BRL Animal Care Technicians of the year - Lawrence Brown and Greta Nekrasova

BIOLOGIC RESOURCES LABORATORY
2019 UIC PER DIEM RATES AND THREE YEAR FORECAST

CODE	BRL	2019	2020	2021	2022
	PRIMATE	\$14.33	\$15.05	\$15.80	\$16.59
	PRIMATE SPECIAL*	\$15.98	\$16.70	\$17.45	\$18.24
CO	COW/CALF	\$25.00	\$25.50	\$26.01	\$26.53
PG	PIG/SWINE	\$18.76	\$19.14	\$19.52	\$19.91
SP	PIG SPECIAL**	\$24.25	\$24.74	\$25.23	\$25.73
DO	DOG	\$12.64	\$13.02	\$13.41	\$13.81
GP	GUINEA PIG	\$1.76	\$1.90	\$2.05	\$2.22
GS	GUINEA PIG SPECIAL***	\$2.16	\$2.28	\$2.43	\$2.60
MB	MOUSE BOX	\$0.85	\$0.88	\$0.92	\$0.96
MSP	MOUSE BOX SPECIAL*	\$0.88	\$0.91	\$0.95	\$0.99
RA	RABBIT	\$3.29	\$3.45	\$3.63	\$3.81
RSD	DIABETIC RAT BOX	\$2.05	\$2.15	\$2.26	\$2.37
RT	RAT BOX	\$0.95	\$1.00	\$1.05	\$1.10
TO	TOAD	\$0.62	\$0.65	\$0.68	\$0.72
TU	TURTLE	\$0.47	\$0.49	\$0.52	\$0.54
BGP	BIO/CHEMICAL GUINEA PIG	\$2.48	\$2.60	\$2.73	\$2.87
BZM	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.15	\$1.21	\$1.27	\$1.33
BZR	BIO/CHEMICAL HAZARD RAT BOX	\$1.35	\$1.42	\$1.49	\$1.56
QMI	QUARANTINE MOUSE BOX	\$1.12	\$1.14	\$1.17	\$1.19
QRT	QUARANTINE RAT BOX	\$1.32	\$1.35	\$1.39	\$1.42

BRL ANNEX

	PRIMATE	\$24.60	\$25.83	\$27.12	\$28.48
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BBC FACILITY

BBMI	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
BBRT	RAT BOX	\$1.01	\$1.06	\$1.11	\$1.16

COMRB FACILITY

CMI	MOUSE BOX	\$0.85	\$0.88	\$0.92	\$0.96
CBZ	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.12	\$1.21	\$1.27	\$1.33
CMSP	MOUSE BOX SPECIAL*	\$0.88	\$0.91	\$0.95	\$0.99

DENTISTRY

DMI	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
DRT	RAT BOX	\$1.01	\$1.06	\$1.11	\$1.16

ILF

ILMB	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
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MBRB FACILITY

MMI	MOUSE BOX	\$0.91	\$0.95	\$0.98	\$1.02
MRT	RAT BOX	\$1.01	\$1.06	\$1.11	\$1.16

* Special husbandry practices may include bio,chemical hazard, and/or other maintenance requirements

** Swine over 40 kgs

*** Single Housed

GENERAL BRL FEES:

Order	Animal Order Administration	\$10.00
Shipment	Domestic Shipping Coordination	\$50.00
Shipment	International Shipping Coordination	\$100.00
Shipment	Non Approved Vendor	\$50.00
Shipment	Crates	\$15.00
Line	Rederivation	\$1,200
Husbandry	Euthanasia (p/cage)	\$0.35
Husbandry	Overcrowd/Cage Separation (p/cage)	\$20.00
Husbandry	Delivery - On campus	\$25.00
Husbandry	Receiving/Handling	\$30.00
Husbandry	Van/Transportation Service within UIC/Med District	\$28.00
Facility	Space Rental p/sq ft	\$17.50

PROFESSIONAL SERVICES:

Veterinary Time	\$65.00
Veterinary Technician	\$36.00
Animal Care Technician	\$30.00

Rates Effective 2/1/19

BIOLOGIC RESOURCES LABORATORY
2019 ILLINOIS MEDICAL DISTRICT PER DIEM RATES AND THREE YEAR FORECAST

CODE	BRL	2019	2020	2021	2022
	PRIMATE	\$17.20	\$18.06	\$18.96	\$19.91
	PRIMATE SPECIAL *	\$19.18	\$20.04	\$20.94	\$21.89
CO	COW/CALF	\$30.00	\$30.60	\$31.21	\$31.84
PG	PIG/SWINE	\$22.51	\$22.96	\$23.42	\$23.89
SP	PIG SPECIAL **	\$29.10	\$29.68	\$30.28	\$30.88
DO	DOG	\$15.17	\$15.62	\$16.09	\$16.57
GP	GUINEA PIG	\$2.11	\$2.28	\$2.46	\$2.66
GS	GUINEA PIG SPECIAL ***	\$2.59	\$2.74	\$2.92	\$3.12
MB	MOUSE BOX	\$1.02	\$1.06	\$1.10	\$1.15
MSP	MOUSE BOX SPECIAL *	\$1.06	\$1.10	\$1.14	\$1.18
RA	RABBIT	\$3.95	\$4.15	\$4.35	\$4.57
RSD	DIABETIC RAT	\$2.46	\$2.58	\$2.71	\$2.85
RT	RAT BOX	\$1.14	\$1.20	\$1.26	\$1.32
TO	TOAD	\$0.74	\$0.78	\$0.82	\$0.86
TU	TURTLE	\$0.56	\$0.59	\$0.62	\$0.65
BGP	BIO/CHEMICAL GUINEA PIG	\$2.98	\$3.12	\$3.28	\$3.45
BZM	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.38	\$1.45	\$1.52	\$1.60
BZR	BIO/CHEMICAL HAZARD RAT BOX	\$1.62	\$1.70	\$1.79	\$1.88
QMI	QUARANTINE MOUSE BOX	\$1.34	\$1.37	\$1.40	\$1.43
QRT	QUARANTINE RAT BOX	\$1.58	\$1.62	\$1.66	\$1.71
BRL ANNEX					
	PRIMATE	\$29.52	\$31.00	\$32.55	\$34.17
BBC FACILITY					
BBMI	MOUSE BOX	\$1.08	\$1.12	\$1.16	\$1.21
BBRT	RAT BOX	\$1.20	\$1.26	\$1.32	\$1.38
COMRB FACILITY					
CMI	MOUSE BOX	\$1.02	\$1.06	\$1.10	\$1.15
CBZ	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.34	\$1.45	\$1.52	\$1.60
CMSP	MOUSE BOX SPECIAL *	\$1.06	\$1.10	\$1.14	\$1.18
DENTISTRY					
DMI	MOUSE BOX	\$1.08	\$1.12	\$1.16	\$1.21
DRT	RAT BOX	\$1.20	\$1.26	\$1.32	\$1.38
ILF					
ILMB	MOUSE BOX	\$1.20	\$1.26	\$1.32	\$1.38
MBRB FACILITY					
MMI	MOUSE BOX	\$1.08	\$1.12	\$1.16	\$1.21
MRT	RAT BOX	\$1.20	\$1.26	\$1.32	\$1.38

* Special husbandry practices may include bio,chemical hazard, and/or other maintenance requirements

** Swine over 40 kgs

*** Single Housed

GENERAL BRL FEES:

Order	Animal Order Administration	\$10.00
Shipment	Domestic Shipping Coordination	\$50.00
Shipment	International Shipping Coordination	\$100.00
Shipment	Non Approved Vendor	\$50.00
Shipment	Crates	\$15.00
Line	Rederivation	\$1,200
Husbandry	Euthanasia (p/cage)	\$0.35
Husbandry	Overcrowd/Cage Separation (p/cage)	\$20.00
Husbandry	Delivery - On campus	\$25.00
Husbandry	Receiving/Handling	\$30.00
Husbandry	Van/Transportation Service within UIC/Med District	\$28.00
Facility	Space Rental p/sq ft	\$21.00

PROFESSIONAL SERVICES:

Veterinary Time	\$65.00
Veterinary Technician	\$36.00
Animal Care Technician	\$30.00

Rates Effective 2/1/19

BIOLOGIC RESOURCES LABORATORY
2019 NON UIC/ILLINOIS MEDICAL CENTER PER DIEM RATES AND THREE YEAR FORECAST

CODE	BRL	2019	2020	2021	2022
	PRIMATE	\$22.78	\$23.92	\$25.12	\$26.38
	PRIMATE SPECIAL*	\$25.41	\$26.55	\$27.74	\$29.00
CO	COW/CALF	\$39.75	\$40.55	\$41.36	\$42.18
PG	PIG/SWINE	\$29.83	\$30.42	\$31.03	\$31.65
SP	PIG SPECIAL**	\$38.56	\$39.33	\$40.12	\$40.92
DO	DOG	\$20.10	\$20.70	\$21.32	\$21.96
GP	GUINEA PIG	\$2.80	\$3.02	\$3.26	\$3.53
GS	GUINEA PIG SPECIAL***	\$3.43	\$3.63	\$3.87	\$4.13
MB	MOUSE BOX	\$1.35	\$1.41	\$1.46	\$1.52
MSP	MOUSE BOX SPECIAL*	\$1.40	\$1.45	\$1.51	\$1.57
RA	RABBIT	\$5.23	\$5.49	\$5.77	\$6.06
RSD	DIABETIC RAT	\$3.26	\$3.42	\$3.59	\$3.77
RT	RAT BOX	\$1.51	\$1.59	\$1.67	\$1.75
TO	TOAD	\$0.99	\$1.04	\$1.09	\$1.14
TU	TURTLE	\$0.75	\$0.78	\$0.82	\$0.87
BGP	BIO/CHEMICAL GUINEA PIG	\$3.94	\$4.14	\$4.35	\$4.56
BZM	BIO/CHEMICAL HAZARD MOUSE	\$1.83	\$1.92	\$2.02	\$2.12
BZR	BIO/CHEMICAL HAZARD RAT BOX	\$2.15	\$2.25	\$2.37	\$2.48
QMI	QUARANTINE MOUSE BOX	\$1.78	\$1.82	\$1.85	\$1.89
QRT	QUARANTINE RAT BOX	\$2.10	\$2.15	\$2.21	\$2.26
BRL ANNEX					
	PRIMATE	\$39.11	\$41.07	\$43.12	\$45.28
BBC FACILITY					
BBMI	MOUSE BOX	\$1.41	\$1.47	\$1.52	\$1.58
BBRT	RAT BOX	\$1.57	\$1.65	\$1.73	\$1.81
COMRB FACILITY					
CMI	MOUSE BOX	\$1.35	\$1.41	\$1.46	\$1.52
CBZ	BIO/CHEMICAL HAZARD MOUSE BOX	\$1.78	\$1.92	\$2.02	\$2.12
CMSP	MOUSE BOX SPECIAL*	\$1.40	\$1.45	\$1.51	\$1.57
DENTISTRY					
DMI	MOUSE BOX	\$1.41	\$1.47	\$1.52	\$1.58
DRT	RAT BOX	\$1.57	\$1.65	\$1.73	\$1.81
ILF					
ILMB	MOUSE BOX	\$1.41	\$1.47	\$1.52	\$1.58
MRB FACILITY					
MMI	MOUSE BOX	\$1.41	\$1.47	\$1.52	\$1.58
MRT	RAT BOX	\$1.57	\$1.65	\$1.73	\$1.81

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Husbandry	Delivery - On campus	\$25.00
Husbandry	Receiving/Handling	\$30.00
Husbandry	Van/Transportation Service within UIC/Med District	\$28.00
Facility	Space Rental p/sq ft	\$27.83

PROFESSIONAL SERVICES:

Veterinary Time	\$65.00
Veterinary Technician	\$36.00
Animal Care Technician	\$30.00

Rates Effective 2/1/19