

# The LabKey EHR Module at the Oregon National Primate Research Center





# Our Menagerie

### **Colony Overview**

This page is designed to give an overview of the colony

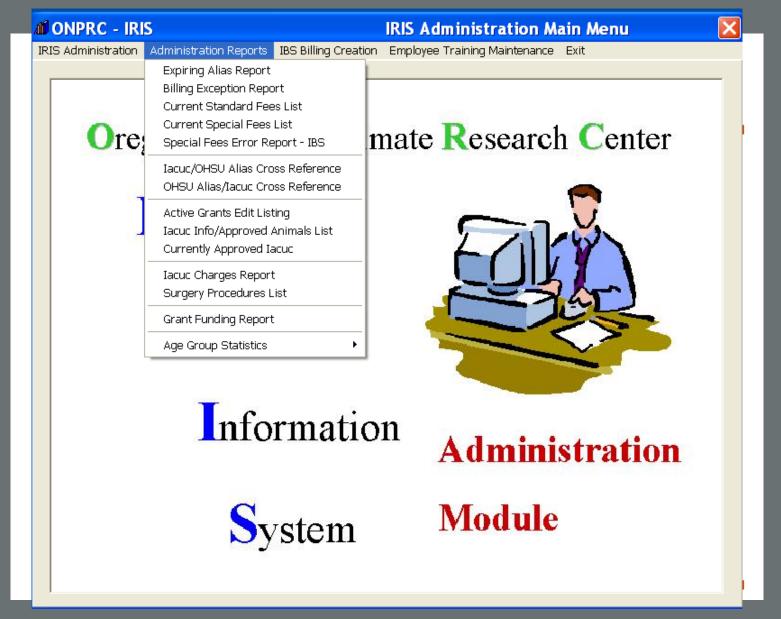
Population Composition	SPF Col	ony	Housing Su	ımmary	Utilizati	on Sumi	mary	linical Ca	se Summa	ry	
Current Population:											
	Total	S	enior	Ad	dult	Juv	enile			In	fant
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ANUBIS BABOON:	25	0	2	2	10	10	1	0	0	0	0
CYNOMOLGUS MACAQUE:	87	0	0	37	50	0	0	0	0	0	0
GUINEA PIG:	2	0	0	0	0	0	0	0	0	0	0
HAMADRYAS BABOON:	4	0	0	1	3	0	0	0	0	0	0
JAPANESE MACAQUE:	321	6	15	35	121	58	61	0	0	13	12
RHESUS MACAQUE:	4647	35	82	813	1636	841	763	0	0	243	234
SQUIRREL MONKEYS:	6	0	0	0	0	0	0	0	0	0	0



# B.L.E. (Before LabKey Era)



### Visual Basic Modules: IRIS





# Unfriendly to all but Microsoft



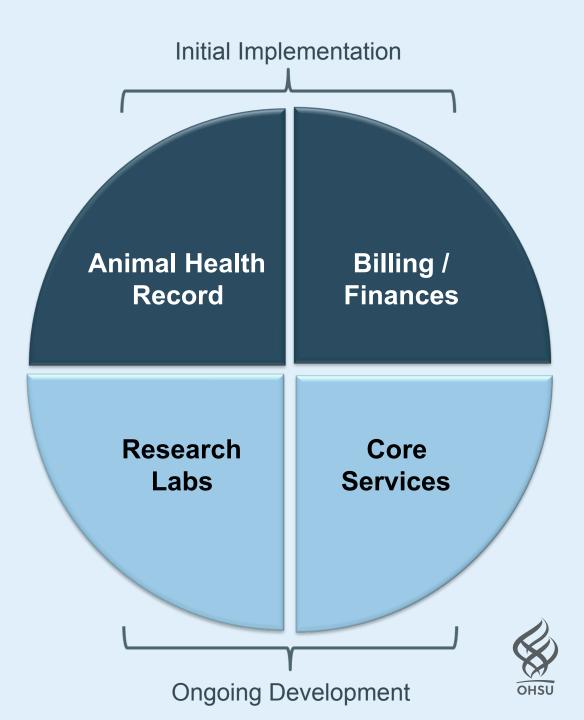


# ONPRC LabKey Solution PRIMe



# Overview

- LabKey platform
- Web-based
- Operational since
   2013



# Development Requirements

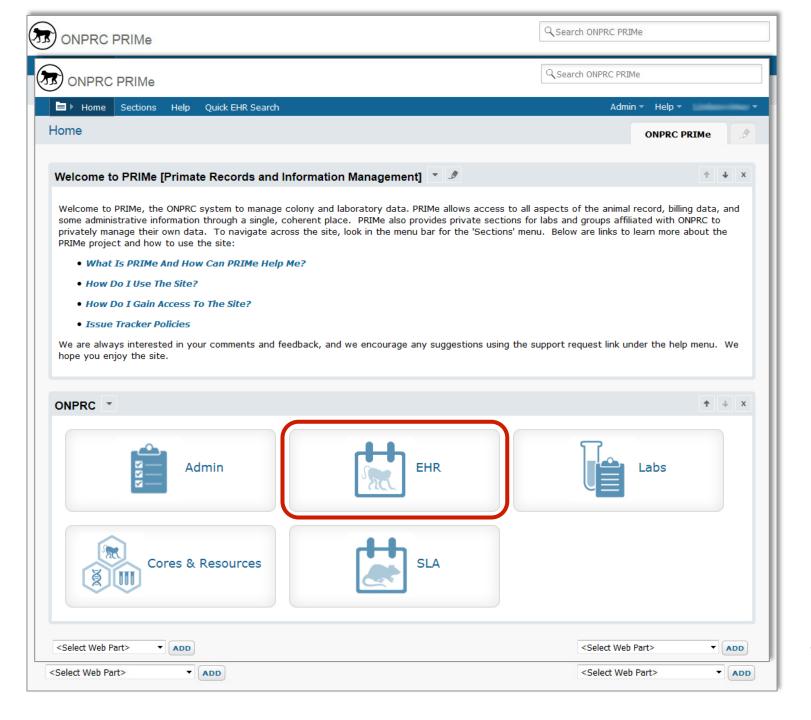
- Integrate lab data with animal health data
- Improve accuracy and efficiency in the collection, entry, and maintenance of animal health and husbandry data
- Provide an easily accessible, easily searchable data repository for researchers and clinicians
- Support compliance with current rules and regulations
- Deliver timely and accurate information for administration and billing



# PRIMe

(Primate Records & Information Management)









### **Technical Details**

- EHR uses LabKey study for core animal data
- EHR Core module is shared
- ONPRC\_EHR to customize basic EHR
- Additional modules for specific assays,
   Finance, SLA tracking
- ETLs for connectivity with LIMS, OGA, elacuc
- Many custom SQL queries in modules
- Use of LabKey APIs in Mathematica and other external scripts





# Clinical Data Entry

### **BSU:**

BSU EXAM
BSU ROUNDS
NHP TRAINING
PAIRING OBSERVATIONS

### Billing:

MISC CHARGES

### Clinical:

BLOOD DRAWS
BULK CLINICAL ROUNDS
CLINICAL ROUNDS
EXAMS/CASES
MEDICATIONS/DIET
POST OP MEDS SIGN OFF
TB TESTS
WEIGHTS

### Lab Results:

ISTAT RESULTS
LAB RESULTS





## More Clinical Data Entry

### **Colony Management:**

ANIMAL GROUP ASSIGNMENT

**ARRIVAL** 

BIRTH

**DCM NOTES** 

DEATH

**DEPARTURE** 

**FLAGS** 

GENETIC ANCESTRY

HOUSING TRANSFERS

**MATINGS** 

**MENSES** 

NHPR PROCESSING

**PARENTAGE** 

PREGNANCIES / PREGNANCY TESTS

**PROCESSING** 

PROJECT ASSIGNMENT





# **Even More Clinical Data Entry**

**Pathology:** 

BIOPSY NECROPSY PATHOLOGY TISSUES Research:

RESEARCH PROCEDURES

Requests:

ASB SERVICES
COLONY SERVICES
HOUSING TRANSFER
LABWORK

SLA:

**SLA CENSUS** 

Surgery:

SURGERIES
SURGERY
SURGICAL ROUNDS



# Improve accuracy and efficiency

- Husbandry, Clinical, Surgical, and Necropsy Information
- All stages and phases of care captured and easily retrieved
  - Preventative care, physical examinations, and routine procedures easily entered
  - Standardized templates for clinical, surgical, and pathology procedures
- Bulk entry for common group procedures
  - TB tests, weight updates, blood draws
  - Routine exams, diagnostic exams, procedures



### Clinical Alerts/Notifications

- Data integrity checking
- High incidence of clinical problems
- Weight drops
- Pairings and singly housed animals
- Unoccupied rooms
- Scheduled treatments not yet completed
- Service requests
- Clinical rounds needing vet review



# Compliance

- Tracking required training for building and room access
- Overdue and upcoming training renewals
- Cage size vs. animal size
- Pairings and individually housed animals
- Animal utilization by protocol
- Allowable blood volume calculations



# Easily accessible, easily searchable data

### Metrics easily captured and viewed

- number and type of animals on campus
- animals assigned
- available space
- services provided
- billing





# Colony: **Numbers and Types of Animals**

#### **Colony Overview**

Population Composition	SPF Co	lony	Housing Su	ımmary	Utilizati	on Sumi	nary (	linical Ca	se Summa	ry	
Current Population:											
	Total	Se	enior	A	dult	Juv	enile			In	fant
		Male	Female	Male	Female	Male	Female	Male	Female	Male	Female
ANUBIS BABOON:	25	0	2	2	10	10	1	0	0	0	0
CYNOMOLGUS MACAQUE:	87	0	0	37	50	0	0	0	0	0	0
GUINEA PIG:	2	0	0	0	0	0	0	0	0	0	0
HAMADRYAS BABOON:	4	0	0	1	3	0	0	0	0	0	0
JAPANESE MACAQUE:	321	6	15	35	121	58	61	0	0	13	12
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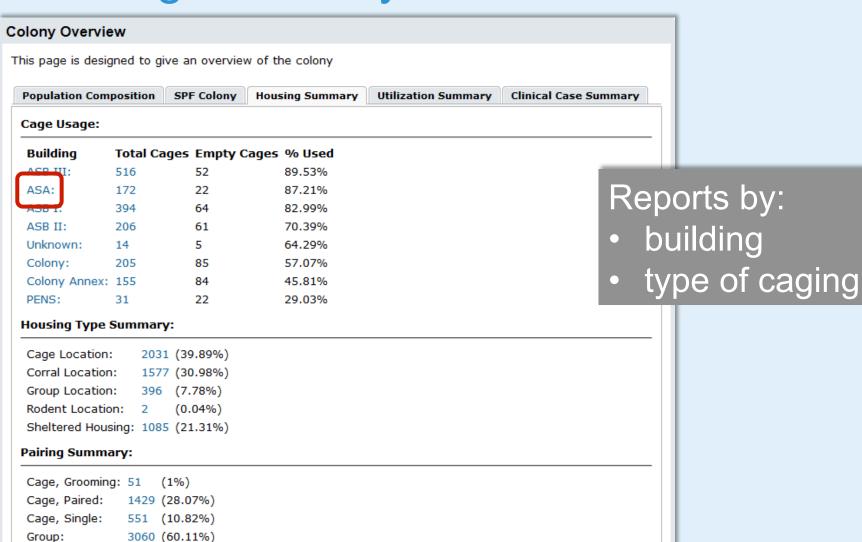


# Colony: Master Problems List

#### Colony Overview This page is designed to give an overview of the colony Population Composition SPF Colony Housing Summary **Utilization Summary** Clinical Case Summary Clinical Summary: Open Cases: Category Total Clinical 140 2.75 Type and number Surgery 64 1.26 Open Problems: of cases across Category Total Behavioral 293 5.76 campus and by Cardiac Abnormality 10 0.2 Dermatopathy 40 0.79 Endocrinopathy 8 0.16 Master Problem GI-Diarrhea 95 1.87 GI-Other 85 1.67 MS Abnormality 45 0.88 Neurologic Abnormality 1 0.02 0.1 None 5 OBGYN Condition 11 0.22 Ophthalmic Abnormality 3 0.06 Other 13 0.26 13 0.26 Research Support Respiratory Abnormality 10 0.2 Routine or Preventative care 134 2.63 Urogenital 17 0.33 Weight Loss 96 1.89 Wound 82 1.61



# Colony: Housing Summary





# Colony > Housing Summary: Space Management

Area 🔺	Room	Housing Condition	Housing Type	Total Cages Present	Cages Used	Marked Unavailable	Cages Empty	% Used	Total Animals
ABSL3 North Suite	ASA RM 136 A	ABSL2	Cage Location	12	8	0	4	66.7	12
ABSL3 North Suite	ASA RM 136 B	ABSL2	Cage Location	9	0	0	9	0.0	0
ABSL3 South Suite	ASA RM 135 A	ABSL2	Cage Location	10	9	0	1	90.0	17
ABSL3 South Suite	135 B	ABSL2	Cage Location	9	8	0	1	88.9	16
ASA Conventional	ASA RM 1	ABSL2	Cage Location	29	29	0	0	100.0	61
ASA Conventional	ASA RM 2	ABSL2	Cage Location	30	28	0	2	93.3	53
ASA Conventional	ASA RM 3	ABSL2	Cage Location	30	29	0	1	96.7	55
ASA Conventional	ASA RM 4	ABSL2	Cage Location	34	34	0	0	100.0	48
ASA Conventional	ASA RM 5	ABSL2	Cage Location	9	5	0	4	55.6	9

Summary report of rooms within a building



# Colony > Housing Summary > Space Management: Cage Size and Position

#### Room: ASA RM 135 A Note: a solid line indicates a solid divider, dotted line indicates mesh, and dashed indicates grooming contact. A3 (6.5) A1 (6.5) A2 (6.5) A4 (6.5) A5 (6.5) 33046: 4.4 32088: 6.1 33539: 5.9 35843: 7.1 33883: 5.4 B1 (6.5T) B2 (6.5T) B3 (6.5T) B4 (6.5T) B5 (6.5T) 35804: 4.2 35805: 4.9 35809: 4.8 35838: 5.1 35830: 5.3 No Cage C2 (6.5) C3 (6.5) C4 (6.5) C5 (6.5) 35810: 4.4 35806: 4 35803: 4.4 No Cage D2 (6.5T) D3 (6.5T) D4 (6.5T) D5 (6.5T) 35817: 4.9 35812: 4.7 35823: 3.9 35837: 5.5

Visual report of a specific room



# Automated billing

- Lease and setup fees including day lease and Time
   Mated Breeders
- Animal per diems based on housing type
- Blood draws
- Injections
- Diet supplements and Special Diets
- Procedures



# Timely & accurate information for billing

- Manually entered charges

   (i.e. Pathology services, technician time,

   MRI charges, supplies reimbursement)
- Billing period summary reports
- Anticipated billing reports
- Investigator access to past and anticipated billing
- Rate sheets centralized and available to all



### Financial Alerts/Notifications

- Expired accounts
- Missing accounts
- Expired or inactive projects
- Projects ending within 30 days





### **Issue Trackers**

- •EHR
- Finance
- Information Systems





### Results/Benefits realized

- Grids for ad hoc reporting
- Permissions management for focused access
- Financial data access for investigators
- Improved data consistency





### Best Practices/Lessons Learned

- Defining permissions for system access
- Optimize queries and other processes
- Document as you go
- Regular meetings with the user community





### **Future Plans**

- New reporting process to replace SSRS
- New LIS implementation
- Real time data entry
- Greater collaboration between
   Primate Centers and other research institutions

# Thank You



# Appendix: Daily Admin Alerts



### Daily Admin Alerts by Email

**From: Production Server** 

Sent: Friday, September 29, 2017 5:05 AM

Subject: Daily Admin Alerts: 2017-09-29 05:05

This email contains a series of alerts designed for site admins. It was run on: 2017-09-29 05:05.

### The following alerts were generated:

The size of the database labkey-seq has changed significantly since the last run on 2017-09-28 05:04



Site Logins in Past 7 Days

Day of Week	Date	Logins	Distinct Users	Logins / User
Fri	2017-09-22	489	126	3.881
Sat	2017-09-23	137	21	6.524
Sun	2017-09-24	123	19	6.474
Mon	2017-09-25	547	136	4.022
Tue	2017-09-26	535	149	3.591
Wed	2017-09-27	555	153	3.627
Thu	2017-09-28	496	144	3.444



### 17 / L

Top 20	) Largest Tables (	by row	count)	
Schema	Table	# of Rows	Previous Value	% Change
audit	c3d323_queryupdateauditdomain	24,245,551	24,208,549	0.2%
ehr	kinship	17,894,150	17,894,150	0%
audit	c3d312_datasetauditdomain	8,955,414	8,946,152	0.1%
sequenceanalysis	sequence_coverage	5,502,055	5,502,055	0%
studyDataset	c6d178_drug	4,402,544	4,401,948	0%
studyDataset	c6d168_hematologyresults	3,497,870	3,496,888	0%
sequenceanalysis	alignment_summary_junction	3,483,874	3,483,874	0%
sequenceanalysis	nt_snps_by_pos	3,339,518	3,339,518	0%
studyDataset	c6d214_encounters	2,870,834	2,870,657	0%
ehr	snomed_tags	2,480,536	2,480,021	0%
studyDataset	c6d171_clinical_observations	2,471,415	2,469,661	0.1%
sequenceanalysis	aa_snps_by_codon	2,358,840	2,358,840	0%
onprc_billing	invoicedItems	2,012,748	2,012,748	0%
studyDataset	c6d185_clinremarks	1,534,135	1,533,764	0%
studyDataset	c6d206_chemistryresults	1,404,436	1,404,033	0%
studyDataset	c6d175_weight	1,015,468	1,015,223	0%
assayresult	c3d161_genotype_result_fields	995,700	995,700	0%
studyDataset	c6d208_treatment_order	985,250	985,127	0%
list	c18d506_cognosquery	978,291	978,291	0%
assayresult	c3d262_snp_result_fields	943,619	943,619	0% OHSU

## **Database Sizes**

tempdb         templog2         63 GB         63 GB         0%           tempdb         templog3         55 GB         55 GB         0%           tempdb         templog1         48 GB         48 GB         0%           Labkey         labkey_log         21 GB         21 GB         0%           labkey-seq         11 GB         10 GB         12.3%           IRIS_Production         IRIS_Production_Data         7 GB         7 GB         0%           Labkey_Public         LKAdmin         5 GB         5 GB         0%           Labkey_Public         LKAdmin_log         3 GB         3 GB         0%           labkey-seq         labkey-seq_log         2 GB         2 GB         0%           labkey-seq         labkey-seq_log         2 GB         2 GB         0%           RBAT         RBAT_Data         1 GB         1 GB         0%           RBAT         RBAT_Data         1 GB         1 GB         0%           msdb         MSDBData         1 GB         1 GB         0%           fflexesuite         fflexesuite_log         626 MB         626 MB         0%           fflexesuite         fflexesuite         603 MB         603 MB					
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msdb         MSDBData         1 GB         1 GB         0%           fflexesuite         fflexesuite_log         626 MB         626 MB         0%           fflexesuite         fflexesuite         603 MB         603 MB         0%           msdb         MSDBLog         493 MB         493 MB         0%           ReportServerTempDB         ReportServerTempDB         336 MB         336 MB         0%           ReportServer         ReportServer_log         297 MB         297 MB         0%           IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	RBAT	RBAT_Data	1 GB	1 GB	0%
fflexesuite         fflexesuite_log         626 MB         626 MB         0%           fflexesuite         fflexesuite         603 MB         603 MB         0%           msdb         MSDBLog         493 MB         493 MB         0%           ReportServerTempDB         ReportServerTempDB         336 MB         336 MB         0%           ReportServer         ReportServer_log         297 MB         297 MB         0%           IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	ohsu_sqltab	ohsu_sqltab	1 GB	1 GB	0%
fflexesuite         fflexesuite         603 MB         603 MB         0%           msdb         MSDBLog         493 MB         493 MB         0%           ReportServerTempDB         ReportServerTempDB         336 MB         336 MB         0%           ReportServer         ReportServer_log         297 MB         297 MB         0%           IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	msdb	MSDBData	1 GB	1 GB	0%
msdb         MSDBLog         493 MB         493 MB         0%           ReportServerTempDB         ReportServer [log         336 MB         336 MB         0%           ReportServer         ReportServer_log         297 MB         297 MB         0%           IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	fflexesuite	fflexesuite_log	626 MB	626 MB	0%
ReportServerTempDB         ReportServerTempDB         336 MB         336 MB         0%           ReportServer         ReportServer_log         297 MB         297 MB         0%           IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	fflexesuite	fflexesuite	603 MB	603 MB	0%
ReportServer         ReportServer_log         297 MB         297 MB         0%           IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	msdb	MSDBLog	493 MB	493 MB	0%
IRIS_Production         IRIS_Production_Log         293 MB         293 MB         0%           tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	ReportServerTempDB	ReportServerTempDB	336 MB	336 MB	0%
tempdb         templog         149 MB         149 MB         0%           ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	ReportServer	ReportServer_log	297 MB	297 MB	0%
ReportServer         ReportServer         130 MB         130 MB         0%           ReportServerTempDB         ReportServerTempDB_log         99 MB         99 MB         0%           RBAT         RBAT_Log         73 MB         73 MB         0%	IRIS_Production	IRIS_Production_Log	293 MB	293 MB	0%
ReportServerTempDBReportServerTempDB_log99 MB99 MB0%RBATRBAT_Log73 MB73 MB0%	tempdb	templog	149 MB	149 MB	0%
<b>RBAT</b> RBAT_Log 73 MB 73 MB 0%	ReportServer	ReportServer	130 MB	130 MB	0%
T O OHSII	ReportServerTempDB	ReportServerTempDB_log	99 MB	99 MB	0%
model modellog 34 MB 34 MB 0% OHSU	RBAT	RBAT_Log	73 MB	73 MB	
	model	modellog	34 MB	34 MB	0% OHSU

**Study Summary** 

Study Name	Container	Path	Number of	records P	revious Value	% Change
JMacResource Study	/ONPRC/C	Core Facilities/JMac Resource	0		0	
Primate Electronic Hea	alth Record /ONPRC/E	HR	22,959	9,218	22,953,931	0%
Primate Electronic Hea	alth Record /EHR_Den	no	33,9	924	33,924	0%
		ssay Sumn				
Provider	Protocol	Container Path		# Results	Previous Value	% Change
Affymetrix	Test Assay	/ONPRC/Labs/McBride/Assay Tutorial	0	0	0	
ELISPOT_Assay	ELISPOT	/Shared	1,106	58,201	58,201	0%
Flow	Flow	/ONPRC/Labs/Sacha	1	7	7	0%
General	Activity	/ONPRC/Labs/McBride	1	24	24	0%
General	Adjuvent Assay	/ONPRC	0	0	0	
General	Generic Assay	/ONPRC/Labs/McBride/Assay Tutorial	0	0	0	
General	Neutralizing antibody assay	/ONPRC/Labs/McBride	2	16	16	0%
General	Vector Copy Number	/ONPRC/Labs/McBride	1	142	142	0%
General	Volumetrics	/ONPRC/Labs/McBride	1	11	11	0%
Genotype Assay	Genotype	/Shared	3,005	995,700	995,700	0%
Hormone Assay	Hormone	/Shared	213	4,270	4,262	0.2%
ICS	ICS	/Shared	0	0	0	
Immunophenotyping	Immunophenotyping	/Shared	1	6	6	0%
SNP Assay	SNP	/Shared	36	943,619	943,619	0%
SSP Typing	SSP	/Shared	159	40,998	40,998	0%
SSP Typing	TaqMan	/ONPRC/Core Facilities/ Genetics Core/MHC_Typing	12	264	264	0% OHSU
Viral Loads	Viral_Load	/Shared	183	13,670	13,670	0%

L	ists Summary: Top 20	by Si	ze	
Table Name	Container Path	# of Rows	Previous Value	% Change
CognosQuery	/ONPRC/Admin/Finance	978,291	978,291	0%
PDARSURGIBSExtract	/ONPRC/Admin/Finance/6	99,675	99,675	0%
MHCData	/ONPRC/DCM/NHP Resources	59,530	59,530	0%
SLAUIBSExport	/ONPRC/Admin/Finance/6	19,208	19,208	0%
Weights	/ONPRC/Labs/Grant	12,726	12,726	0%
BSUOnDateObserved	/ONPRC/DCM/BSU/1	11,216	11,216	0%
SurgerySchedule	/ONPRC/DCM/SSU	11,095	11,095	0%
Observations	/ONPRC/Labs/Zelinski	6,495	6,495	0%
SamplesSent	/ONPRC/Core Facilities/Genetics Core/Parentage	5,440	5,440	0%
BSUObservedAnimals	/ONPRC/DCM/BSU/1	4,206	4,206	0%
GeneticValue	/ONPRC/DCM/NHP Resources	4,013	4,013	0%
Ages	/ONPRC/Core Facilities/MRI Core	2,901	2,901	0%
TestAnimals	/ONPRC/Admin/IS/4	2,235	2,235	0%
BSUAnimalLocations	/ONPRC/DCM/BSU/1	1,761	1,761	0%
InfantsList	/ONPRC/DCM/BSU/1	1,482	1,482	0%

**BSUMenstrualStudyIDs** 

/ONPRC/DCM/BSU/10

0% OHSU

1,235

1,235

# File Root Sizes

Folder Path	File Path	Size	Previous Value	% Change	Total Files	Previous Value	% Change
I	/lkfiles/files	1 TB	1 TB	0%	246,766	246,764	0%
/home	/lkfiles/files/home	52 MB	52 MB	0%	36	36	0%
/EHR_Demo	/lkfiles/files/EHR_Demo	0 bytes	0 bytes		0	0	
/ONPRC	/lkfiles/files/ONPRC	1 TB	1 TB	0%	238,420	238,418	0%
/Public	/lkfiles/files/Public	20 KB	20 KB	0%	1	1	0%
/Shared	/lkfiles/files/Shared	2 MB	2 MB	0%	8,309	8,309	0%



# Tooks Crostad Vootordov

**Total** 93

70

45

14

13 12

> 8 8

7

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6

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3 3

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1

las	ks Created Yesterday
Folder	Form Type
/ONPRC/EHR	Exams/Cases
/ONPRC/EHR	Surgeries
/ONPRC/EHR	Lab Results
/ONPRC/EHR	Research Procedures
/ONPRC/EHR	Housing Transfers
/ONPRC/EHR	Clinical Rounds
/ONPRC/EHR	Post Op Meds Sign Off
/ONPRC/EHR	Weights
/ONPRC/EHR	Bulk Clinical Entry
/ONPRC/EHR	Pairing Observations
/ONPRC/EHR	Medications/Diet
/ONPRC/EHR	Surgical Rounds
/ONPRC/EHR	Surgery
/ONPRC/EHR	Blood Draws
/ONPRC/EHR	BSU Rounds
/ONPRC/EHR	Necropsy

Pathology Tissues

**NHPR Processing** 

**Project Assignment** 

**Animal Group Assignment** 

Menses

Charges

Birth

/ONPRC/EHR

/ONPRC/EHR

/ONPRC/EHR

/ONPRC/EHR

/ONPRC/EHR

/ONPRC/EHR

/ONPRC/EHR

Records Created Yesterday							
Folder	Dataset Name	Rows Not Created By Admin	Public Records Modified				
/ONPRC/EHR	Animal Group Members	<u>9</u>	<u>8</u>				
/ONPRC/EHR	Animal Record Flags	<u>23</u>	<u>4</u>				
/ONPRC/EHR	Antibiotic Sensitivity	<u>24</u>	<u>0</u>				
/ONPRC/EHR	Assignment	<u>1</u>	<u>5</u>				
/ONPRC/EHR	Birth	<u>4</u>	<u>0</u>				
/ONPRC/EHR	Blood Draws	<u>174</u>	<u>11</u>				
/ONPRC/EHR	Cases	<u>37</u>	<u>58</u>				
/ONPRC/EHR	Chemistry Results	<u>403</u>	<u>0</u>				
/ONPRC/EHR	Clinical Encounters	<u>177</u>	<u>36</u>				
/ONPRC/EHR	Clinical Observations	<u>1758</u>	<u>319</u>				
/ONPRC/EHR	Clinical Remarks	<u>371</u>	<u>35</u>				
/ONPRC/EHR	Clinpath Runs	<u>87</u>	<u>21</u>				
/ONPRC/EHR	Deaths	<u>4</u>	<u>0</u>				
/ONPRC/EHR	Demographics	<u>0</u>	<u>4</u>				
/ONPRC/EHR	Drug Administration	<u>596</u>	<u>13</u>				
/ONPRC/EHR	Gross Findings	<u>10</u>	<u>11</u>				
/ONPRC/EHR	Hematology Results	<u>982</u>	<u>0</u>				
/ONPRC/EHR	Histology	<u>39</u>	<u>8</u>				
/ONPRC/EHR	Housing	<u>43</u>	<u>42</u>				
/ONPRC/EHR	Microbiology Results	<u>15</u>	<u>0</u>				
/ONPRC/EHR	Misc Tests	<u>1</u>	<u>0</u>				
/ONPRC/EHR	Notes	<u>1</u>	<u>2</u>				
/ONPRC/EHR	Pairing Observations	<u>26</u>	<u>0</u>				
/ONPRC/EHR	Pathology Diagnoses	<u>0</u>	<u>37</u>				
/ONPRC/EHR	Problem List	<u>20</u>	<u>0</u>				
/ONPRC/EHR	Tissue Distributions	<u>31</u>	0				
/ONPRC/EHR	Tissue Measurements	<u>6</u>	0				
/ONPRC/EHR	Tissue Samples	<u>95</u>	<u>0</u>				
/ONPRC/EHR	Treatment Orders	<u>123</u>	38 OHSU				
/ONDDC/EUD	Majabt	0.46	1				

246

/ONPRC/EHR

Weight