DOS Boot! A Guide to Understanding the New and Exciting ZIMS R2 Interface

The MedARSKS sun has (mostly) set and the Cloud has descended upon us, for ZIMS R2 is here—and it is a very different looking program. While it looks nothing MedARSKS, ZIMS R2 has been painstakingly designed to resemble other familiar programs, so with some hands-on time (and this guide), you should be navigating R2 easily in short order.

To get started with ZIMS R2, log into ZIMS: https://zims.isis.org/

Once in ZIMS, double-click on the Medical Records icon:

This will load the Medical Records Module, home of ZIMS R2.

Okay….so what on earth am I looking at?

Upon entering the Medical component of ZIMS, this is the first thing you will see:
It’s a lot to look at it, especially on the first glance, so let’s break it down into easy-to-digest pieces, as labeled on the previous image:

A. **Recent History/History**

B. **Dashboard**

C. **Animal Information**

D. **Content Areas**

E. **Report**

F. **Toolbar**

Okay, so what are all of these things?

A. **Recent History/History**

This large piece of screen real estate is where the most recently-touched items in ZIMS Medical will appear. On the welcome screen, it groups the items by animal, so if there were three recent additions to Hannibal the chicken’s record—for example, a fecal collection and two subsequent tests on the fecal— all three items would appear in the recent history under his name. To my knowledge, nothing analogous to this existed in MedARKS. **Double-clicking** on any of the items in that list will open the specific record (ex. a test). **Clicking once** on the test will select it, causing the animal’s information to appear in the **Animal Information** area on the right (labeled “C” in the picture above).

Hopefully, this will make it easier to review recent entries.

B. **Dashboard**

The **dashboard** contains quick links to the content areas of ZIMS R2. Clicking **once** on a heading will show you recent activity in this portion of the program, in the **Recent History** window. So for example, clicking once on the word **Samples** will change the display within the **Recent History** window from a general list to a list of only samples. The dashboard also has a search box identical to the one in ZIMS, which allows you to search for a specific animal or colony by identifier. This can be any identifier associated to the animal record, so a band, a house name, a transponder, or the ISIS number will work.

**Some things to keep in mind when searching:**

- You cannot search by taxonomy in this box—only unique identifiers.
- Colony band information is not added to the Identifier list, so you cannot search for a peacock’s band to get to the peacock colony record—you would need to use the ISIS number. (To do a taxonomy search, click the appropriate **Content Area** heading (described **under letter D**.)

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C. Animal Information

This area gives a brief display of information about the animal whose information you are reviewing. It provides an easy way to verify that you are looking at the correct animal's tests, samples, notes, etc. It also provides a list of recent medical activity for the animal, as well as ongoing treatments and prescriptions, and in a later release will also incorporate a calendar, to show upcoming tasks. Some additional things to note about this area:

* **Body Condition Score:** You can directly edit and add a body condition score for the animal here—just click on the hyperlinked text directly beside Body Condition Score.

* **Active Prescriptions:** Clicking on the Gear icon on the prescription record will allow you to perform one of several functions:
  * Edit
  * Clone
  * Terminate
  * Delete

* **Active Problems:** Like the Active Prescriptions area, you can manipulate information in the active problems area by using the Gear icon. In this area, you can:
  * Edit the issue
  * Associate the issue with another existing record
  * Provide a Resolution date for the issue
  * Delete the problem (not an actual treatment method)

D. Content Areas

These links provide you with an Advanced Search box for navigating through R2, focusing specifically within the area you wish to search. You can search by ID, and view a list of all prescription records for a single animal, or search by medication, and see all animals currently receiving that treatment. You are also able to limit by a date range, for greater control over the search. Clinical Notes may also be searched by Author, Note Subtype, and may be keyword searched for text within the notes themselves.

Here is an example of a Prescription search by Animal ID (in this case, house name “Judy”):

<table>
<thead>
<tr>
<th>Animal ID</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Judy-KW / Bonobo / LFD14-08411-IA</td>
<td>27/09/2014</td>
<td>PANACUR PASTE (10.0 percent Sarolaner) Paste 5ml 1 cap/stick for 1 cap/500g (14 days)</td>
</tr>
<tr>
<td>Judy-KW / Bonobo / LFD14-08411-IA</td>
<td>27/09/2014</td>
<td>PANACUR PASTE (10.0 percent Sarolaner) Paste 5ml 1 cap/stick for 1 cap/500g (14 days)</td>
</tr>
<tr>
<td>Judy-KW / Bonobo / LFD14-08411-IA</td>
<td>27/09/2014</td>
<td>DIAZEPAM TABLETS 10MG (10.0 milligram Solid Oral)</td>
</tr>
<tr>
<td>Judy-KW / Bonobo / LFD14-08411-IA</td>
<td>04/09/2014</td>
<td>AMOXICILLIN twice a day (cid) for 14 days Oral</td>
</tr>
<tr>
<td>Judy-KW / Bonobo / LFD14-08411-IA</td>
<td>04/09/2014</td>
<td>AMOXICILLIN once for 1 doses Oral (p.o.)</td>
</tr>
</tbody>
</table>

Note that it shows a full list of prescriptions for Judy.
Here is an example of a Prescription search by **Treatment Item/Drug** (on drug “Fenbendazole”):

<table>
<thead>
<tr>
<th>Animal</th>
<th>Date</th>
<th>Details</th>
<th>Responsible Staff</th>
</tr>
</thead>
<tbody>
<tr>
<td>SpittoonCN / ASHAN BACTRIAN CAMEL / LFD14-00277-IA</td>
<td>06/06/2014</td>
<td>PANACUR GRANULES (22.0 mg per gram)</td>
<td>Jonny Cadro</td>
</tr>
<tr>
<td>Spittoon-Bb / Camel / LFD14-00350-IA</td>
<td>06/07/2014</td>
<td>PANACUR GRANULES (22.0 mg per gram)</td>
<td>Ina Teacher</td>
</tr>
<tr>
<td>Spittoon LDK / Camel / LFD14-00452-IA</td>
<td>06/08/2014</td>
<td>PANACUR GRANULES (22.0 mg per gram)</td>
<td>Me You</td>
</tr>
<tr>
<td>Judy-KW / Borobo / LFD14-00411-IA</td>
<td>06/09/2014</td>
<td>PANACUR PASTE (10.0 percent Semisol = Paste)</td>
<td>Ina Teacher</td>
</tr>
<tr>
<td>HU-321 / Dingo / LFD14-00285</td>
<td>06/10/2014</td>
<td>PANACUR PASTE (10.0 percent Semisol = Paste)</td>
<td>Mayo Takayanagi</td>
</tr>
<tr>
<td>A12100 / Three-striped palm civet / LFD12-00021</td>
<td>06/11/2014</td>
<td>PANACUR PASTE (10.0 percent Semisol = Paste)</td>
<td>Alex Sotolova</td>
</tr>
<tr>
<td>Bonobo / LFD14-00356-IA</td>
<td>06/12/2014</td>
<td>PANACUR GRANULES (22.0 mg per gram)</td>
<td>Jennifer Smith</td>
</tr>
</tbody>
</table>

The results appear grouped by individual animal record, and include anything described as Fenbendazole, including “Panacur Paste” and “Panacur Granules.”

**E. Report**

This area provides an exportable detailed report describing the item you currently have selected. This appears to be analogous to the printable reports from MedARKS. For example, if you have a prescription record selected, it will provide you with a report on that prescription. Click the links below to view sample PDFs of these reports:

- [Prescription](#)
- [Test](#)
- [Clinical Note](#)

To export a report, click on **Export to PDF** in the toolbar directly above this report. There are a number of other things you can do from this toolbar, including **Edit** the content of the report.

*Tip:* You can **resize** this box by pulling up on it at the border where it meets the **Recent History** window. To do this, hover your mouse on the top of the blue border between the...
Reports and Recent History Window, until a double-arrow icon appears, then click and drag upward. This will give you a much larger area for viewing the report.

F. Toolbar
The Toolbar runs along the top of the screen and provides you with quick, easy access to a number of important functions:

New: This button will allow you to add just about any new type of item you wish to put into R2:

Note that there are also keyboard shortcuts available for all of these functions. These buttons are the same no matter what area of ZIMS R2 you are within.

Edit: This button opens the currently selected record for editing; it performs the same function as the Edit button on top of the Report window.
Delete: Deletes the currently selected item.
Manage Animal List: Animal Lists are a function within ZIMS and R2 that allow you to group animals that are not recorded together; this could potentially be helpful for batch-recording, or running searches on animals that all receive the same treatment at the same time, such as when the Contact Yard receives Lice-No-More, or recording identical test results from a group fecal. Use this button to create animal lists.

Wait—what's batch recording?
Batch recording is a wonderful function of ZIMS that removes the need for copying and pasting from one record to another—it allows you to simultaneously record an identical entry into as many records as you wish. I will be happy to show you how to do this if you are not sure how to do it.

**Reload Medical List:** Refresh button.

**Export Medical List:** Creates a PDF summary report of the items currently showing in your History screen.

**Medical Reports:** Provides Quick Access to a number of reports:

<table>
<thead>
<tr>
<th>Medical Reports ▼</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesia Summary Report</td>
</tr>
<tr>
<td>Samples/Tests/Results</td>
</tr>
<tr>
<td>Unresolved Medical Issues</td>
</tr>
<tr>
<td>Complete Medical History</td>
</tr>
</tbody>
</table>

Clicking on any of these options will take you to the appropriate **Reports module**. Note that when you click on one, a new window appears, indicated by a load animation like this:

![Unresolved Medical Issues Report module is loading...](image)

From this window, you can specify the parameters of your report, such as **Date Range**, which **Animals** you wish to include, and some specifics, which will vary by report type.

Since this opens a new **module** in ZIMS R2, the report is run in a window separate from the **Medical Records** window, where we have spent all of our time so far. You can see this by looking at what equates to the **Task Bar** in ZIMS, along the bottom of the screen:

![Task Bar](image)

Note that there are two “windows” – Medical Records, and Unresolved Medical Issues. To go back and forth between these windows, simply **click once** on it within the Task Bar. You do not have to close out of a window to see the other one.

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### Treatment/Prescriptions

<table>
<thead>
<tr>
<th>GAN</th>
<th>Local ID</th>
<th>Taxonomy</th>
<th>Sex</th>
<th>Birth Date</th>
<th>Age (at the start date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFD014-00411:1A</td>
<td>~</td>
<td>Pan paniscus/Bonobo</td>
<td>Female</td>
<td>24/09/1983</td>
<td>30y 11m 3d</td>
</tr>
</tbody>
</table>

**Basic Info**
- **Date Written:** 27/08/2014
- **Start Date:** 27/08/2014 00:00
- **Prescribed By:** Ima Teacher
- **Prescribed For:** 1 animal
- **Reason For Terminate:** Insufficient Improvement
- **Terminate Date:** 2014-08-19
- **Reason For Treatment:** ~

**Weight Info**
- **Date:** 27/08/2014
- **Measurement Value:** 14.8 kg
- **Estimate:** Yes
- **Exclude From Reference Intervals:** Yes

### Treatment Detail

**Treatment Item/Drug:** PANACUR PASTE (10.0 percent Semi solid to Paste) (FENBENDAZOLE)

<table>
<thead>
<tr>
<th>Dose Amount</th>
<th>Frequency</th>
<th>Form Of Drug</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 mg</td>
<td>once a day (sid)</td>
<td>Paste</td>
</tr>
<tr>
<td>0.034 mg/kg</td>
<td>Duration 15 days</td>
<td></td>
</tr>
</tbody>
</table>

**Adverse Effects:** Minor

**Clinical Response:** Undetermined

**Staff Instructions:**
- Give 0.5mg orally once per day, in the morning.

### Dispensing Records

<table>
<thead>
<tr>
<th>Date Dispensed</th>
<th>Dispensed By</th>
<th>Quantity Dispensed</th>
</tr>
</thead>
<tbody>
<tr>
<td>~</td>
<td>~</td>
<td>~</td>
</tr>
</tbody>
</table>

### Administration Records

<table>
<thead>
<tr>
<th>Administration Date/Time</th>
<th>Administered By</th>
<th>Success</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/12/2014 09:14</td>
<td>Test Grimm</td>
<td>100%</td>
<td>~</td>
</tr>
<tr>
<td>31/10/2014 10:13</td>
<td>Test Grimm</td>
<td>100%</td>
<td>0.5mg PO SID: 100% through</td>
</tr>
<tr>
<td>30/10/2014 11:04</td>
<td>Ima Teacher</td>
<td>30%</td>
<td>Spt out</td>
</tr>
<tr>
<td>04/09/2014 10:15</td>
<td>Jennifer Smith</td>
<td>80%</td>
<td>~</td>
</tr>
<tr>
<td>03/09/2014 11:40</td>
<td>Humberto Espiritu Santo</td>
<td>80%</td>
<td>Cheetios</td>
</tr>
<tr>
<td>31/09/2014 11:08</td>
<td>Jennifer Smith</td>
<td>50%</td>
<td>~</td>
</tr>
<tr>
<td>27/08/2014 11:17</td>
<td>Jonny Quatro</td>
<td>100%</td>
<td>0.5mg PO SID: 100% through</td>
</tr>
</tbody>
</table>
### Test & Result Details

<table>
<thead>
<tr>
<th><strong>GAN</strong></th>
<th><strong>Local ID</strong></th>
<th><strong>Taxonomy</strong></th>
<th><strong>Sex</strong></th>
<th><strong>Birth Date</strong></th>
<th><strong>Age</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>LFD14-00411-IA</td>
<td>-</td>
<td>Pan paniscus/Bonobo</td>
<td>Female</td>
<td>24/06/1983</td>
<td>30Y 11M 10D</td>
</tr>
</tbody>
</table>

#### Test Request Details
- **Date Requested:** 02/09/2014
- **Requested By:** Test Grimm
- **Analysis Start Date & Time:** 03/09/2014 13:40
- **Analysis By:** cat team
- **Analysis Equipment:** ~
- **Insufficient Sample:** No

#### Sample Quality
- **Color:** Pink
- **Color Intensity:** medium
- **Clarity:** ~
- **Consistency:** soft
- **Additional Characteristics:** ~
- **Degraded:** No

#### Notes/Comments
- Sample cultured.

### Test Requests & Test Results

<table>
<thead>
<tr>
<th><strong>Test</strong></th>
<th><strong>Primary Result</strong></th>
<th><strong>Secondary Result</strong></th>
<th><strong>Low RI</strong></th>
<th><strong>High RI</strong></th>
<th><strong>Evaluation</strong></th>
<th><strong>Excl. from RI</strong></th>
<th><strong>Reviewed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>NaNO3 Flotation</td>
<td>Taxon Result - Ascaridoid / Nematodes (Adult)</td>
<td>few (2+)</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>No</td>
</tr>
<tr>
<td>Direct Exam.</td>
<td>Taxon Result - Amidostomataid / Nematode (Egg)</td>
<td>rare (1+)</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>No</td>
</tr>
<tr>
<td>Oosulf Blood (paper)</td>
<td>negative</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>No</td>
</tr>
<tr>
<td>Gram Stain</td>
<td>Negative</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>No</td>
</tr>
<tr>
<td>Acid-Fast screen</td>
<td>weak positive</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>No</td>
</tr>
<tr>
<td>Mod Acid-Fast Stain</td>
<td>Rare ova</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>~</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Sample Detail (GSN: 3-LFD14-000246)
- **Collection Date/Time:** 03/09/2014 09:33
- **Collection Method:** Obtained off substrate
- **Sample Type:** Feces
- **Collected By:** Test Grimm
- **Anatomical Source/Tissue:** ~
- **Reason:** Diagnostic
- **Exclude from Reference Intervals:** No
<table>
<thead>
<tr>
<th>GAN</th>
<th>Local ID</th>
<th>Taxonomy</th>
<th>Sex</th>
<th>Birth Date</th>
<th>Age</th>
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<td>Pan paniscus/Bonobo</td>
<td>Female</td>
<td>24/09/1983</td>
<td>30Y 11M 13D</td>
</tr>
</tbody>
</table>

**Date** 06/09/2014  
**Time** 09:00  
**Note Author**  
**Significant** Private  
**No**  
**Active Problems**  
- KLEBSIELLA PNEUMONIAE, RADIOGRAPH

**Subjective**
Keeper reports animal is inactive and not eating

**Objective**
On observation, animal appears dehydrated and thin

**Assessment**
An examination is needed to further evaluate this animal

**Plan**
- Schedule anesthesia and exam next week

**Animal Care Staff Medical Summary**
Need to schedule this animal for an exam next week