



User Manual

Last Updated: 18 September 2024

Website Contents

Homepage: <https://www.brookfieldzoo.org/zard>

User Registration: Visit the homepage and click the button “Click Here to Register.”

Site Navigation Tiles located at the bottom of the homepage.

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Accessing the ZARD

1. Go to <https://www.brookfieldzoo.org/zard>
2. Click on ENTER THE ZARD in the gray banner at the top of the homepage
3. Login with your UserName and Password (received via email from Vet Rocket at time of registration)

Recommended Search Field Use

Description - Body region declared “Normal” by a board certified radiologist.

- Applies to Tier 1 images only. Tier 2 images do not have a description as they have not been reviewed by a board-certified radiologist.

Modality - Radiographs are labeled DX or CR and computed tomography is labeled CT

Tier - During initial rollout stages, the ZARD is comprised of two study tiers. Tier 1 are studies that have been reviewed by an ACVR or ECVDI diplomate. Tier 2 studies passed screening by an ACZM diplomate for positioning, technique, image markers, and obvious abnormalities.

- The ZARD is automatically set to search only Tier 1 images.
- In order to include Tier 2 images, change the drop down menu to All.
- Once all of the images in the ZARD have been reviewed by a board certified radiologist, the Tier system will be removed.

Species - Search species within the database by scientific name. Clear the search field by clicking the red X.

Common Name - Search species within the database by common name. Clear the search field by clicking the red X.

- For best results, choose *either* Species *or* Common Name.

Patient Sex - Female, Male, Other (unknown)

Maturity - Skeletal maturity at time of image acquisition

Body Region Description Key

SKL - Skull

DEN - Dental

CSP - Cervical Spine

TSP - Thoracic Spine

LSS - Lumbar-Sacral Spine

COX - Coccygeal (skeletal & soft tissue)

TLW - Thoracic Limbs or Wings

PLL - Pelvic Limbs

PEL - Pelvis

THX - Thorax

ABD - Abdomen

CRC- Cranial Coelom

MDC - Mid-Coelom

CAC - Caudal Coelom

INV - Invertebrate

Utilizing the ZARD

Species Search:

1. Locate the **Species** (scientific name) *or* **Common Name** drop down menus on the second row of search fields. Choose one of the lists search for the species of interest.
2. Press the **Search** button on the right hand side of the search window.
3. Scroll down within the results field to choose which study to view. Each page is programmed to 20 rows.
4. Narrow your search to include studies only with a body region of interest using the **Description** drop down menu on the first row and/or **Patients Sex** or **Maturity** drop down menus on the second row of search fields.
5. Click the **View** (eye) icon on the left-side within the study row to review the images.

Viewing a Study:

1. The anonymized DICOM information is automatically set to overlay the images. The list of body regions approved as “normal” by a board-certified radiologist in a Tier 1 study can be found in the top left-hand corner. If the study is classified as Tier 2, the word “pending” will appear instead.
2. Right-click over an image to view a list of all images in the study.
3. Utilize the toolbar buttons along the bottom of the screen to manipulate or annotate the image while you are viewing it. As a reminder, images and/or studies must not be copied, saved, downloaded, screenshot, or recorded for personal or shared use. Review the End User Licensing Agreement for the full terms.
4. Return to the search results by clicking the “Go Home” button on the right side of the first row of toolbar buttons.

Toolbar Buttons in Imaging Viewer

First Row

Toggle Full Screen

Rotate Counter-Clockwise

Rotate Clockwise

Flip Image Vertical

Flip Image Horizontal

Invert Black/White

Toggle DICOM Overlay

Automatically “on”

Choose Layout

Launch MPR

Available when viewing CT scans only

Link Viewports Scroll

Triangulate and Probe

Toggle Survey Mode

Load Previous View

Load Next View

Help

View button functions and shortcut keys

Go Home

Toggle Menu

Second Row

Reload Views

Choose Annotation Color

Draw a Line or Arrow

Add Text

Measure the Distance

Measure an Angle

Draw a Polygon (Area Measurement)

Draw a Circle (Area Measurement)

Cut Current Selection

Edit Annotation

Delete Annotation

Calibrate Measurements

Help

Toggle Menu